



July 5, 2023

Steven M. Scharf, PE
Project Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation-Remedial Bureau A
625 Broadway 12th Floor
Albany, NY 12233-7015

RE: Genzale Plating Co. Site ID 130018 -March 2023 Groundwater Sampling Event

Dear Mr. Scharf:

This letter summarizes the recent groundwater sampling activities conducted by Environmental Assessment & Remediations (EAR) in March at the above referenced site as requested by the New York State Department of Environmental Conservation (NYSDEC). Site activities included groundwater sample collection for laboratory analysis. A site map provided by NYSDEC has been included as Figure 1.

Groundwater Sampling Event

The sampling event was conducted on March 28th, 2023. Groundwater samples were collected from 5 monitoring wells: MW-3S, MW-15S, MW-17S, MW-18S, and MW-19S. Well locations are displayed in Figure 1.

At each sampling location, depth to water was measured and the volume of standing water was calculated. Each well was purged utilizing a peristaltic pump with dedicated silicone and polyethylene tubing. Purge water was screened using a multi-parameter probe with a flow- cell (Horiba U-52). All wells were purged a minimum of one well volume with purging continuing until values for temperature, pH, and oxidation/reduction potential (ORP) reached stabilization. These parameters, as well as dissolved oxygen and specific conductivity, were recorded prior to sample collection. Purged groundwater was also field screened for turbidity with a Hach 2100Q meter and for alkalinity and hardness using CHEMetrics Titrets titration cells. As directed by NYSDEC, purge water was dispersed in the vicinity of the well, except for MW-18S. Purge water from MW-18S was returned to the well after sampling activities were complete.

Samples collected for laboratory analysis were placed into the appropriate sample containers, provided by the laboratory, and immediately placed in a cooler with ice to maintain a temperature of 4 degrees Celsius. Samples were delivered directly to the laboratory after leaving site and submitted to a NYSDEC standby contracted laboratory (PACE, Melville NY, a ConTest Analytical Laboratory) for standard 10-day turn around and category B deliverables.



A total of 10 water samples, 5 well samples and 5 QA/QC samples consisting of: one blind duplicate, one MS/MSD, one field blank, and one trip blank were submitted for volatile organic analysis via EPA Method 8260. A total of 9 water samples, 5 wells and 4 QA/QC samples consisting of: one blind duplicate, one MS/MSD, and one field blank were submitted for metals analysis (nickel, chromium, copper and cadmium) via EPA method 6010C and hexavalent chromium via EPA 7196A.

Sampling Results

Water level readings and field screening readings recorded are summarized in Table 1 and include historical readings from the last several sampling events for reference. Tables of the VOC and metals analytical results from this sampling event have been included as Table 2 and Table 3, respectively. QA/QC results are presented in Table 4 and Table 5. A historical summary of metals analytical results has been included as Table 6 for your reference.

A data usability summary report is being prepared and will be submitted under a separate cover once completed. Validated EDD's will be submitted to NYENVDATA upon completion. A copy of the laboratory report has been included as Appendix A.

Should you have any questions regarding the information provided in this report, please feel free to contact me at 631-447-6400, extension 131 or via email at lawrence@enviro-asmnt.com.

Sincerely,
Environmental Assessment and Remediations

 Digitally signed by
Jennifer A Lawrence
Date: 2023.07.05
15:27:41 -04'00'

Jennifer A. Lawrence
Vice President



FIGURE



ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Site Map
Figure 1

Genzale Plating Co.
288 New Hyde Park Road
Franklin Square, NY
NYSDEC Site #130018



TABLES

TABLE 1

Former Genzale Plating Co.
288 New Hyde Park Road
Franklin Square, NY
NYSDEC Site # 130018



EAR Field Screening Summary
Horiba U-52

Location	Date	Depth to Water (ft)	Conductivity (uS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH	Temperature (°C)	Turbidity (NTU)	Alkalinity (mg/L CaCO3)	Hardness (ppm)
MW-15S	8/28/2019	26.24	454	6.02	125.1	6.11	15.29	-	-	-
	6/30/2021	27.80	-	-	-	-	-	-	-	-
	3/15/2022	26.80	570	8.48	61	5.60	15.13	23.8	-	-
	6/15/2022	27.31	-	-	-	-	-	-	-	-
	7/19/2022	28.29	1190	5.04	-36	8.22	20.25	12.0	210	70
	10/10/2022	29.47	2.4	1.42	-164	8.78	16.37	337	>500	>1000
	3/28/2023	29.32	-	-	-	-	-	-	-	-
MW-17S	8/28/2019	25.59	484	4.05	124	5.92	15.35	-	-	-
	6/30/2021	26.91	420	4.75	67.4	5.61	14.97	-	28	80
	3/15/2022	26.48	570	8.48	61	5.60	15.13	23.8	150	300
	6/15/2022	27.01	421	4.32	138	6.44	17.71	0.0	27	75
	7/19/2022	27.31	970	5.75	92	5.77	14.21	1.1	150	300
	10/10/2022	29.40	634	2.70	144	6.16	15.15	4.3	50	45
	3/28/2023	28.80	622	6.19	172	6.70	14.64	35.1	200	325
MW-18S	8/28/2019	26.02	427	6.77	144.4	5.90	15.25	-	-	-
	6/30/2021	27.59	318	4.71	129.2	5.58	15.51	-	27	70
	3/15/2022	26.87	629	0.68	161	6.79	13.75	31.5	36	275
	6/15/2022	27.51	280	1.95	-49	7.02	18.12	2.7	65	140
	7/19/2022	28.20	420	8.02	77	5.57	16.12	10.0	150	25
	10/10/2022	29.59	518	3.40	156	6.37	15.70	8.9	25	140
	3/28/2023	29.22	239	5.48	253	7.12	13.72	0.0	54	125
MW-19S	8/28/2019	31.60	450	3.75	120.4	5.97	15.30	-	-	-
	6/30/2021	33.13	385	3.27	124.3	5.6	14.99	-	15	50
	3/15/2022	32.56	475	12.10	125	5.86	14.55	19.2	-	-
	6/15/2022	33.10	153	5.37	217	6.00	18.81	0.0	10	40
	7/19/2022	33.27	1130	0.98	149	5.33	18.97	170	200	80
	10/10/2022	35.21	291	2.67	231	5.97	15.87	4.8	40	60
	3/28/2023	34.95	149	5.90	222	6.44	14.45	0.0	75	250
MW-3S	8/28/2019	24.85	529	6.91	181.4	6.54	15.27	-	-	-
	6/30/2021	27.33	402	3.75	137.5	5.62	15.55	-	25	70
	3/15/2022	26.20	404	4.84	105	5.93	13.86	16.2	200	300
	6/15/2022	26.99	247	0.91	-287	7.43	17.56	41.7	20	>1000
	7/19/2022	27.02	331	0.61	-158	6.71	15.39	180	-	-
	10/10/2022	29.65	171	0.49	-121	7.13	17.53	127	16	>1000
	3/28/2023	28.25	149	3.12	-80	7.17	13.33	129	175	250

Shaded values represent baseline conditions prior to chemical injection

Chemical Injection conducted December 2021

Due to laboratory errors, data was collected in both June and July 2021. The readings from July were comparable to the June data and can be seen in the July 2021 report.

MW-15S: no water recharge on 6/2021, 6/2022 and 3/2023

TABLE 2

Former Genzale Plating
288 New Hyde Park Road
Franklin Square, NY
Site ID # 130018



Groundwater Analytical Results

Pace Analytical Services, Inc.- *Concentrations reported in ug/L*

Methods: SW8260

Location	Depth	Date	1,1 Dichloroethane	1,1 Dichloroethene	1,1,1 Trichloroethane	Acetone	Chloroform	cis-1,2-Dichloroethene	Freon 113	Methylene Chloride	Tetrachloroethene	Trichloroethylene
MW-3S	30-40	3/28/2023	<1	<1	<1	5.4 J	<2	<1	<1	<5	<1	<1
MW-15S	30-40	3/28/2023	<20	<20	<20	87 JD	<40	<20	<20	<100	<20	<20
MW-17S	30-40	3/28/2023	<1	<1	<1	<50	<2	<1	<1	<5	<1	<1
MW-18S	30-40	3/28/2023	0.33 J	0.24 J	9.6	<50	<2	1.4	0.37 J	<5	2.7	38
MW-19S	35-45	3/28/2023	<1	<1	<1	<50	<2	<1	<1	<5	0.44 J	<1
NYSDEC TOGS111_ClassGA_Standard ¹			5	5	5	n/a	7	5	5	5	5	5
NYSDEC TOGS111_ClassGA_Guidance ¹			n/a	n/a	n/a	50	n/a	n/a	n/a	n/a	n/a	n/a

¹ NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1), Source of Drinking Water (groundwater)

J-estimated qualifier reported by lab

D-diluted qualifier reported by lab

n/a - analyzed chemicals with no established values

The chemicals listed below were reported at values below the reporting limit:

1,1 Dichloropropene	2 Chlorotoluene	Chloromethane	n Propylbenzene
1,1,1,2 Tetrachloroethane	2,2 Dichloropropane	Cyclohexane, methyl-	Naphthalene
1,1,2 Trichloroethane	2-Hexanone	Dibromochloromethane	o-Xylene
1,1,2,2 Tetrachloroethane	4 Chlorotoluene	Dibromochloropropane	p Isopropyltoluene
1,2 Dibromoethane	4-Methyl-2-Pentanone	Dibromomethane	s Butylbenzene
1,2 Dichlorobenzene	Acrylonitrile	Dichlorodifluoromethane	Styrene
1,2 Dichloroethane	Benzene	Diethyl ether	t 1,3 Dichloropropene
1,2 Dichloropropane	Bromobenzene	Diisopropyl Ether	t Butylbenzene
1,2,3 Trichlorobenzene	Bromochloromethane	Ethylbenzene	Tert-Amyl-Methyl-Ether
1,2,3 Trichloropropane	Bromodichloromethane	Ethyl-Tert-Butyl-Ether	Tert-Butyl Alcohol
1,2,4 Trichlorobenzene	Bromoform	Hexachlorobutadiene	Tetrahydrofuran
1,2,4 Trimethylbenzene	Bromomethane	Isopropylbenzene	Toluene
1,3 Dichlorobenzene	c 1,3 Dichloropropane	m + p Xylene	Total BTEX
1,3 Dichloropropane	Carbon Disulfide	Methyl acetate	trans-1,2-Dichloroethene
1,3,5 Trimethylbenzene	Carbon Tetrachloride	Methyl Ethyl Ketone	trans-1,4-Dichloro-2-butene
1,3,5-Trichlorobenzene	Chlorobenzene	MTBE	Trichlorofluoromethane
1,4 Dichlorobenzene	Chloroethane	n Butylbenzene	Vinyl Chloride
1,4-Dioxane			

TABLE 3

Former Genzale Plating
288 New Hyde Park Road
Franklin Square, NY
Site ID # 130018



Groundwater Analytical Results (mg/L) - Metals

Pace Analytical Services

Methods: 6010C, Other, SW7196A

Location	Depth	Date	Cadmium	Chromium (hexavalent)	Chromium (total)	Copper	Nickel
MW-3S	30-40	3/28/2023	<0.004	<0.02	<0.01	<0.01	<0.01
MW-15S	30-40	3/28/2023	<0.004	<0.02	<0.01	0.01 J	0.01
MW-17S	30-40	3/28/2023	<0.004	<0.02	<0.01	<0.01	<0.01
MW-18S	30-40	3/28/2023	<0.004	0.3	0.27	<0.01	0.68
MW-19S	35-45	3/28/2023	<0.004	<0.02	<0.01	<0.01	<0.01
NYSDEC_TOGS111_ClassGA_Standard ¹			0.005	0.05	0.05	0.2	0.1
NYSDEC_TOGS111_ClassGA_Guidance ¹			n/a	n/a	n/a	n/a	n/a

¹ NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1), Source of Drinking Water (groundwater)

n/a - analyzed chemicals with no established values

TABLE 4

Former Genzale Plating Co.
288 New Hyde Park Road
Franklin Square, NY
NYSDEC Site # 130018



QA/QC Analytical Summary - VOC Analysis
Pace Analytical Services - East Longmeadow, MA
Methods: 8260C - Concentrations reported in ug/L

Location	Date	1,1 Dichloroethane	1,1 Dichloroethene	1,1,1 Trichloroethane	1,3 Dichlorobenzene	1,4-Dioxane	2-Hexanone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Freon 113	m + p Xylene	Methyl acetate	Methyl Ethyl Ketone	Methylene Chloride	Tetrachloroethene	Toluene	Total BTEX	Trichloroethylene
TRIPBLANK_20230328	3/28/2023	<1	<1	<1	<1	<50	<10	<50	<1	0.16 J	<1	<1	<1	<2	<1	<20	0.18 J	<1	<1	<6	<1
Field Blank	3/28/2023	<1	<1	<1	<1	<50	<10	<50	<1	<2	<1	<1	<1	<2	<1	<20	<5	<1	<1	<6	<1
MW-18S	3/28/2023	0.33 J	0.24 J	9.6	<1	<50	<10	<50	<1	<2	1.4	<1	0.37 J	<2	<1	<20	<5	2.7	<1	<6	38
MW-X	3/28/2023	0.34 J	0.25 J	10	<1	<50	<10	<50	<1	<2	1.5	<1	0.41 J	<2	<1	<20	<5	2.9	<1	<6	39
Relative Percent Difference		n/a	n/a	4.1%	-	-	-	-	-	-	6.9%	-	n/a	-	-	-	-	7.1%	-	-	2.6%

J - Estimated qualifier reported by lab
n/a - Estimated values are not analyzed

The chemicals listed below were reported at values below the laboratory reporting limit:

1,1 Dichloropropene	1,3 Dichloropropane	Bromodichloromethane	Dibromomethane	p Isopropyltoluene
1,1,1,2 Tetrachloroethane	1,3,5 Trimethylbenzene	Bromoform	Dichlorodifluoromethane	s Butylbenzene
1,1,2 Trichloroethane	1,3,5-Triclorobenzene	Bromomethane	Diethyl ether	Styrene
1,1,2,2 Tetrachloroethane	1,4 Dichlorobenzene	c 1,3 Dichloropropene	Diisopropyl Ether	t 1,3 Dichloropropene
1,2 Dibromoethane	1,4-Dioxane	Carbon Disulfide	Ethyl-Tert-Butyl-Ether	t Butylbenzene
1,2 Dichlorobenzene	2 Chlorotoluene	Carbon Tetrachloride	Hexachlorobutadiene	Tert-Amyl-Methyl-Ether
1,2 Dichloroethane	2,2 Dichloropropane	Chlorobenzene	Isopropylbenzene	Tert-Butyl Alcohol
1,2 Dichloropropane	4 Chlorotoluene	Chloroethane	MTBE	Tetrahydrofuran
1,2,3 Trichlorobenzene	4-Methyl-2-Pentanone	Chloromethane	n Butylbenzene	trans-1,2-Dichloroethene
1,2,3 Trichloropropane	Acrylonitrile	Cyclohexane, methyl-	n Propylbenzene	trans-1,4-Dichloro-2-butene
1,2,4 Trichlorobenzene	Bromobenzene	Dibromochloromethane	Naphthalene	Trichlorofluoromethane
1,2,4 Trimethylbenzene	Bromochloromethane	Dibromochloropropane	o-Xylene	Vinyl Chloride

TABLE 5

Former Genzale Plating Co.
 288 New Hyde Park Road
 Franklin Square, NY
 Spill # 130018



QA/QC Analytical Summary - Metals

Pace Analytical Services - East Longmeadow, MA & Melville, NY

Methods: 6010C, SW7196A - Concentrations reported in mg/L

Location	Date	Cadmium	Chromium (hexavalent)	Chromium (total)	Copper	Nickel
Field Blank	3/28/2023	<0.004	<0.02	<0.01	<0.01	<0.01
MW-18S	3/28/2023	<0.004	0.3	0.27	<0.01	0.68
MW-X	3/28/2023	<0.004	0.29	0.28	<0.01	0.66
Relative Percent Difference		-	3.4%	3.6%	-	3.0%

TABLE 6

Former Genzale Plating
288 New Hyde Park Road
Franklin Square, NY
NYSDEC Site # 130018



Groundwater Analytical Results - Metals

TestAmerica, Inc. & Pace Analytical Services, Inc.

Methods: SW6010, SW7196A - Concentrations reported in mg/L

Parameter						
Location	Date	Cadmium	Chromium (hexavalent)	Chromium (total)	Copper	Nickel
MW-3S	8/28/2019	<8	107	15.5 J	18.9 J	41.8 J
	7/14/2021	<10	<10	68	25	36
	3/15/2022	<2.50	<0.02	7.6 J	12.1 J	16 J
	6/15/2022	<0.8	<2.2	4.5 J	10 J	10 J
	7/19/2022	<0.31	<0.01	23.7	28.7	41.5
	10/10/2022	<0.8	-	20	10 J	<10
	3/29/2023	<4	<20	<10	<10	<10
MW-15S	8/28/2019	<8	86.8 J	20.8	118	62 J
	7/14/2021	<10	<10	15	<20	3 J
	6/17/2022	<0.8	-	10	30	-
	7/19/2022	<0.31	<0.01	61.2	41.5	55.7
	10/10/2022	2.4 J	-	110	340	100
	3/29/2023	<4	<20	<10	7.5	14
MW-17S	8/28/2019	<40	5.20 J	132	<250	26.10 J
	7/14/2021	<10	<10	10 J	<20	26
	3/15/2022	<2.50	<20	3.80 J	<25	6.60 J
	6/15/2022	2.6 J	<2.2	10 J	4.5 J	90
	7/19/2022	<0.31	<0.01	<1.10	<3.70	<4.40
	10/10/2022	<0.8	-	3.8 J	<3.6	<10
	3/29/2023	<4	<20	<10	<10	<10
MW-18S	8/28/2019	0.75 J	402 J	411	<25	168
	7/14/2021	<10	266	300	<20	55
	3/15/2022	<2.50	<20	67.9	12 J	202
	6/15/2022	<0.8	<2.2	60	10 J	270
	7/19/2022	<0.31	0.027	79.8	<3.70	397
	10/10/2022	<0.8	-	130	10	380
	3/29/2023	<4	300	270	<10	680
MW-19S	8/28/2019	<4	<10	<10	<25	1.80 J
	7/14/2021	<10	<10	10 J	<20	27
	3/15/2022	<2.50	<20	<10	<25	13 J
	6/15/2022	<0.8	<2.2	<2.5	<3.6	<10
	7/19/2022	<0.31	<0.01	<1.10	<3.70	<4.40
	10/10/2022	<0.8	-	20	10 J	10 J
	3/29/2023	<4	<20	<10	<10	<10
NYSDEC_TOGS111_ClassGA_Standard ¹		5	50	50	200	100
NYSDEC_TOGS111_ClassGA_Guidance ¹		n/a	n/a	n/a	n/a	n/a

Shaded values indicate concentrations that exceed ClassGA Standards

¹ NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1), Source of Drinking Water (groundwater)

n/a - Analyzed chemical with no established value



APPENDIX-A Laboratory Reports

Data Package



ANALYTICAL. LIFE. SERVICE.

April 13, 2023

Jennifer Lawrence
NYDEC _Environmental Assessment & Remediation
225 Atlantic Avenue
Patchogue, NY 11772

Project Location: 288 New Hyde Park Rd Franklin Square
Client Job Number:
Project Number: 130018
Laboratory Work Order Number: 23C3284

Enclosed are results of analyses for samples as received by the laboratory on March 29, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Environmental Assessment & Remediation

225 Atlantic Avenue

Patchogue, NY 11772

ATTN: Jennifer Lawrence

REPORT DATE: 4/13/2023

PURCHASE ORDER NUMBER: 144183

PROJECT NUMBER: 130018

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23C3284

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 288 New Hyde Park Rd Franklin Square

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-15S	23C3284-01	Ground Water		SW-846 6010D SW-846 7196A	New York Certification# NY10478
				SW-846 8260D	
MW-18S	23C3284-02	Ground Water		SW-846 6010D SW-846 7196A	New York Certification# NY10478
				SW-846 8260D	
MW-3S	23C3284-03	Ground Water		SW-846 6010D SW-846 7196A	New York Certification# NY10478
				SW-846 8260D	
MW-17S	23C3284-04	Ground Water		SW-846 6010D SW-846 7196A	New York Certification# NY10478
				SW-846 8260D	
MW-19S	23C3284-05	Ground Water		SW-846 6010D SW-846 7196A	New York Certification# NY10478
				SW-846 8260D	
FieldBlank_20230328	23C3284-06	Ground Water		SW-846 6010D SW-846 7196A	New York Certification# NY10478
				SW-846 8260D	
TripBlank_20230328	23C3284-07	Trip Blank Water		SW-846 8260D	
MW-X	23C3284-08	Ground Water		SW-846 6010D SW-846 7196A	New York Certification# NY10478
				SW-846 8260D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED 04-13-23: Sample 23C3284-07 report matrix revised to trip blank.

SW-846 8260D

Qualifications:

DL-01

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

23C3284-01[MW-15S]

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Bromomethane**

23C3284-02[MW-18S], B335720-MS1, B335720-MSD1

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:**Vinyl Chloride**

B335720-MS1, B335720-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**Naphthalene**

B335720-MS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

23C3284-01[MW-15S], 23C3284-02[MW-18S], 23C3284-03[MW-3S], 23C3284-04[MW-17S], 23C3284-05[MW-19S], 23C3284-06[FieldBlank_20230328], 23C3284-07[TripBlank_20230328], 23C3284-08[MW-X], B335720-BLK1, B335720-BS1, B335720-BSD1, B335720-MS1, B335720-MSD1, S085366-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Vinyl Chloride**

B335720-BS1, B335720-BSD1, B335720-MS1, B335720-MSD1, S085366-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-15S

Sampled: 3/28/2023 10:02

Sample ID: 23C3284-01

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	87	1000	40	µg/L	20	J	SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Acrylonitrile	ND	100	9.3	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
tert-Amyl Methyl Ether (TAME)	ND	10	2.6	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Benzene	ND	20	3.7	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Bromobenzene	ND	20	3.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Bromochloromethane	ND	20	5.7	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Bromodichloromethane	ND	10	3.2	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Bromoform	ND	20	8.2	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Bromomethane	ND	40	26	µg/L	20	V-05	SW-846 8260D	3/31/23	3/31/23 12:14	EEH
2-Butanone (MEK)	ND	400	34	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
tert-Butyl Alcohol (TBA)	ND	400	85	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
n-Butylbenzene	ND	20	3.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
sec-Butylbenzene	ND	20	2.5	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
tert-Butylbenzene	ND	20	2.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	10	3.1	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Carbon Disulfide	ND	100	31	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Carbon Tetrachloride	ND	100	3.3	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Chlorobenzene	ND	20	2.4	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Chlorodibromomethane	ND	10	4.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Chloroethane	ND	40	6.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Chloroform	ND	40	2.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Chloromethane	ND	40	10	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
2-Chlorotoluene	ND	20	3.1	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
4-Chlorotoluene	ND	20	3.1	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	17	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2-Dibromoethane (EDB)	ND	10	3.2	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Dibromomethane	ND	20	6.4	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2-Dichlorobenzene	ND	20	2.6	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,3-Dichlorobenzene	ND	20	2.7	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,4-Dichlorobenzene	ND	20	2.6	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
trans-1,4-Dichloro-2-butene	ND	40	30	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	40	3.2	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,1-Dichloroethane	ND	20	2.7	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2-Dichloroethane	ND	20	6.1	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,1-Dichloroethylene	ND	20	2.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
cis-1,2-Dichloroethylene	ND	20	2.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
trans-1,2-Dichloroethylene	ND	20	3.4	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2-Dichloropropane	ND	20	3.9	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,3-Dichloropropane	ND	10	2.3	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
2,2-Dichloropropane	ND	20	7.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,1-Dichloropropene	ND	40	3.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
cis-1,3-Dichloropropene	ND	10	3.3	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
trans-1,3-Dichloropropene	ND	10	2.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Diethyl Ether	ND	40	2.9	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-15S

Sampled: 3/28/2023 10:02

Sample ID: 23C3284-01

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	4.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,4-Dioxane	ND	1000	360	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Ethylbenzene	ND	20	4.4	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Hexachlorobutadiene	ND	12	9.4	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
2-Hexanone (MBK)	ND	200	24	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Isopropylbenzene (Cumene)	ND	20	3.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
p-Isopropyltoluene (p-Cymene)	ND	20	2.5	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Methyl Acetate	ND	20	12	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Methyl tert-Butyl Ether (MTBE)	ND	20	3.4	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Methyl Cyclohexane	ND	20	3.1	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Methylene Chloride	ND	100	3.5	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	200	26	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Naphthalene	ND	40	7.6	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
n-Propylbenzene	ND	20	2.5	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Styrene	ND	20	3.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,1,1,2-Tetrachloroethane	ND	20	3.2	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,1,2,2-Tetrachloroethane	ND	10	2.7	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Tetrachloroethylene	ND	20	3.4	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Tetrahydrofuran	ND	200	9.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Toluene	ND	20	4.5	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2,3-Trichlorobenzene	ND	100	6.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2,4-Trichlorobenzene	ND	20	6.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,3,5-Trichlorobenzene	ND	20	4.2	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,1,1-Trichloroethane	ND	20	3.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,1,2-Trichloroethane	ND	20	3.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Trichloroethylene	ND	20	3.5	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Trichlorofluoromethane (Freon 11)	ND	40	3.1	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2,3-Trichloropropane	ND	40	5.5	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	4.2	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,2,4-Trimethylbenzene	ND	20	4.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
1,3,5-Trimethylbenzene	ND	20	3.0	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Vinyl Chloride	ND	40	4.7	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
m+p Xylene	ND	40	9.8	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
o-Xylene	ND	20	4.9	µg/L	20		SW-846 8260D	3/31/23	3/31/23 12:14	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	100		70-130				3/31/23 12:14			
Toluene-d8	98.0		70-130				3/31/23 12:14			
4-Bromofluorobenzene	97.2		70-130				3/31/23 12:14			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-15S

Sampled: 3/28/2023 10:02

Sample ID: 23C3284-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:13	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:13	ATP
Copper	0.0075	0.010	0.0036	mg/L	1	J	SW-846 6010D	3/31/23	4/11/23 16:13	ATP
Nickel	0.014	0.010	0.0098	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:13	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-15S

Sampled: 3/28/2023 10:02

Sample ID: 23C3284-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See attached subcontract report	-			mg/L	1		SW-846 7196A			PALI

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-18S

Sampled: 3/28/2023 10:50

Sample ID: 23C3284-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Acrylonitrile	ND	5.0	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	MS-07A, V-05	SW-846 8260D	3/31/23	3/31/23 12:42	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
tert-Butylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
2-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
4-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Dibromomethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.5	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,1-Dichloroethane	0.33	1.0	0.14	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,1-Dichloroethylene	0.24	1.0	0.14	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 12:42	EEH
cis-1,2-Dichloroethylene	1.4	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,3-Dichloropropane	ND	0.50	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
2,2-Dichloropropane	ND	1.0	0.35	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Diethyl Ether	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-18S

Sampled: 3/28/2023 10:50

Sample ID: 23C3284-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Naphthalene	ND	2.0	0.38	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
n-Propylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Tetrachloroethylene	2.7	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,1,1-Trichloroethane	9.6	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Trichloroethylene	38	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.37	1.0	0.21	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 12:42	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	97.9		70-130				3/31/23 12:42			
Toluene-d8	97.5		70-130				3/31/23 12:42			
4-Bromofluorobenzene	96.7		70-130				3/31/23 12:42			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-18S

Sampled: 3/28/2023 10:50

Sample ID: 23C3284-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:07	ATP
Chromium	0.27	0.010	0.0068	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:07	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:07	ATP
Nickel	0.68	0.010	0.0098	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:07	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-18S

Sampled: 3/28/2023 10:50

Sample ID: 23C3284-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See attached subcontract report	-			mg/L	1		SW-846 7196A			PALI

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-3S

Sampled: 3/28/2023 11:40

Sample ID: 23C3284-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.4	50	2.0	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Acrylonitrile	ND	5.0	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05	SW-846 8260D	3/31/23	3/31/23 13:09	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
tert-Butylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
2-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
4-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Dibromomethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.5	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,3-Dichloropropane	ND	0.50	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
2,2-Dichloropropane	ND	1.0	0.35	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Diethyl Ether	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-3S

Sampled: 3/28/2023 11:40

Sample ID: 23C3284-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Naphthalene	ND	2.0	0.38	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
n-Propylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:09	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	101		70-130				3/31/23 13:09			
Toluene-d8	97.9		70-130				3/31/23 13:09			
4-Bromofluorobenzene	95.8		70-130				3/31/23 13:09			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-3S

Sampled: 3/28/2023 11:40

Sample ID: 23C3284-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:20	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:20	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:20	ATP
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:20	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-3S

Sampled: 3/28/2023 11:40

Sample ID: 23C3284-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See attached subcontract report	-			mg/L	1		SW-846 7196A			PALI

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-17S

Sampled: 3/28/2023 12:34

Sample ID: 23C3284-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Acrylonitrile	ND	5.0	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05	SW-846 8260D	3/31/23	3/31/23 13:37	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
tert-Butylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
2-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
4-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Dibromomethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.5	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,3-Dichloropropane	ND	0.50	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
2,2-Dichloropropane	ND	1.0	0.35	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Diethyl Ether	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-17S

Sampled: 3/28/2023 12:34

Sample ID: 23C3284-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Naphthalene	ND	2.0	0.38	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
n-Propylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 13:37	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.8		70-130				3/31/23 13:37			
Toluene-d8	98.5		70-130				3/31/23 13:37			
4-Bromofluorobenzene	96.9		70-130				3/31/23 13:37			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-17S

Sampled: 3/28/2023 12:34

Sample ID: 23C3284-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:26	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:26	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:26	ATP
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:26	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-17S

Sampled: 3/28/2023 12:34

Sample ID: 23C3284-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See attached subcontract report	-			mg/L	1		SW-846 7196A			PALI

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-19S

Sampled: 3/28/2023 13:25

Sample ID: 23C3284-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Acrylonitrile	ND	5.0	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05	SW-846 8260D	3/31/23	3/31/23 14:04	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
tert-Butylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
2-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
4-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Dibromomethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.5	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,3-Dichloropropane	ND	0.50	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
2,2-Dichloropropane	ND	1.0	0.35	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Diethyl Ether	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-19S

Sampled: 3/28/2023 13:25

Sample ID: 23C3284-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Naphthalene	ND	2.0	0.38	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
n-Propylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Tetrachloroethylene	0.44	1.0	0.17	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:04	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.0		70-130				3/31/23 14:04			
Toluene-d8	98.4		70-130				3/31/23 14:04			
4-Bromofluorobenzene	96.8		70-130				3/31/23 14:04			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-19S

Sampled: 3/28/2023 13:25

Sample ID: 23C3284-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:32	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:32	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:32	ATP
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:32	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-19S

Sampled: 3/28/2023 13:25

Sample ID: 23C3284-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See attached subcontract report	-			mg/L	1		SW-846 7196A			PALI

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: FieldBlank_20230328

Sampled: 3/28/2023 13:45

Sample ID: 23C3284-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Acrylonitrile	ND	5.0	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05	SW-846 8260D	3/31/23	3/31/23 10:53	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
tert-Butylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
2-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
4-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Dibromomethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.5	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,3-Dichloropropane	ND	0.50	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
2,2-Dichloropropane	ND	1.0	0.35	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Diethyl Ether	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: FieldBlank_20230328

Sampled: 3/28/2023 13:45

Sample ID: 23C3284-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Naphthalene	ND	2.0	0.38	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
n-Propylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 10:53	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.0		70-130				3/31/23 10:53			
Toluene-d8	98.4		70-130				3/31/23 10:53			
4-Bromofluorobenzene	97.6		70-130				3/31/23 10:53			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: FieldBlank_20230328

Sampled: 3/28/2023 13:45

Sample ID: 23C3284-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:51	ATP
Chromium	ND	0.010	0.0068	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:51	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:51	ATP
Nickel	ND	0.010	0.0098	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:51	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: FieldBlank_20230328

Sampled: 3/28/2023 13:45

Sample ID: 23C3284-06

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See attached subcontract report	-			mg/L	1		SW-846 7196A			PAL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: TripBlank_20230328

Sampled: 3/28/2023 00:00

Sample ID: 23C3284-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Acrylonitrile	ND	5.0	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05	SW-846 8260D	3/31/23	3/31/23 11:20	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
tert-Butylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Chloroform	0.16	2.0	0.14	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
2-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
4-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Dibromomethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.5	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,3-Dichloropropane	ND	0.50	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
2,2-Dichloropropane	ND	1.0	0.35	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Diethyl Ether	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: TripBlank_20230328

Sampled: 3/28/2023 00:00

Sample ID: 23C3284-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Methylene Chloride	0.18	5.0	0.18	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 11:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Naphthalene	ND	2.0	0.38	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
n-Propylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 11:20	EEH
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	98.6	70-130								
Toluene-d8	97.8	70-130								
4-Bromofluorobenzene	99.1	70-130								

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-X

Sampled: 3/28/2023 00:00

Sample ID: 23C3284-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Acrylonitrile	ND	5.0	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05	SW-846 8260D	3/31/23	3/31/23 14:31	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
tert-Butylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
2-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
4-Chlorotoluene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Dibromomethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.5	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,1-Dichloroethane	0.34	1.0	0.14	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,1-Dichloroethylene	0.25	1.0	0.14	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 14:31	EEH
cis-1,2-Dichloroethylene	1.5	1.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,3-Dichloropropane	ND	0.50	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
2,2-Dichloropropane	ND	1.0	0.35	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Diethyl Ether	ND	2.0	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-X

Sampled: 3/28/2023 00:00

Sample ID: 23C3284-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.13	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Naphthalene	ND	2.0	0.38	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
n-Propylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Tetrachloroethylene	2.9	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,1,1-Trichloroethane	10	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Trichloroethylene	39	1.0	0.17	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.41	1.0	0.21	µg/L	1	J	SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	3/31/23	3/31/23 14:31	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	102		70-130				3/31/23 14:31			
Toluene-d8	97.9		70-130				3/31/23 14:31			
4-Bromofluorobenzene	95.8		70-130				3/31/23 14:31			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-X

Sampled: 3/28/2023 00:00

Sample ID: 23C3284-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	0.0018	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:57	ATP
Chromium	0.28	0.010	0.0068	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:57	ATP
Copper	ND	0.010	0.0036	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:57	ATP
Nickel	0.66	0.010	0.0098	mg/L	1		SW-846 6010D	3/31/23	4/11/23 16:57	ATP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 288 New Hyde Park Rd Franklin

Sample Description:

Work Order: 23C3284

Date Received: 3/29/2023

Field Sample #: MW-X

Sampled: 3/28/2023 00:00

Sample ID: 23C3284-08

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See attached subcontract report	-			mg/L	1		SW-846 7196A			PALI

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method: SW-846 3005A Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C3284-01 [MW-15S]	B335766	50.0	50.0	03/31/23
23C3284-02 [MW-18S]	B335766	50.0	50.0	03/31/23
23C3284-03 [MW-3S]	B335766	50.0	50.0	03/31/23
23C3284-04 [MW-17S]	B335766	50.0	50.0	03/31/23
23C3284-05 [MW-19S]	B335766	50.0	50.0	03/31/23
23C3284-06 [FieldBlank_20230328]	B335766	50.0	50.0	03/31/23
23C3284-08 [MW-X]	B335766	50.0	50.0	03/31/23

Prep Method: SW-846 5030B Analytical Method: SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23C3284-01 [MW-15S]	B335720	0.25	5.00	03/31/23
23C3284-02 [MW-18S]	B335720	5	5.00	03/31/23
23C3284-03 [MW-3S]	B335720	5	5.00	03/31/23
23C3284-04 [MW-17S]	B335720	5	5.00	03/31/23
23C3284-05 [MW-19S]	B335720	5	5.00	03/31/23
23C3284-06 [FieldBlank_20230328]	B335720	5	5.00	03/31/23
23C3284-07 [TripBlank_20230328]	B335720	5	5.00	03/31/23
23C3284-08 [MW-X]	B335720	5	5.00	03/31/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B335720 - SW-846 5030B

Blank (B335720-BLK1)

Prepared & Analyzed: 03/31/23

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B335720 - SW-846 5030B

Blank (B335720-BLK1)

Prepared & Analyzed: 03/31/23

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.0		98.0	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.6	70-130			

LCS (B335720-BS1)

Prepared & Analyzed: 03/31/23

Acetone	106	50	µg/L	100		106	70-160			†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130			
tert-Amyl Methyl Ether (TAME)	8.00	0.50	µg/L	10.0		80.0	70-130			
Benzene	9.79	1.0	µg/L	10.0		97.9	70-130			
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130			
Bromochloromethane	10.7	1.0	µg/L	10.0		107	70-130			
Bromodichloromethane	9.73	0.50	µg/L	10.0		97.3	70-130			
Bromoform	10.4	1.0	µg/L	10.0		104	70-130			
Bromomethane	7.82	2.0	µg/L	10.0		78.2	40-160	V-05		†
2-Butanone (MEK)	103	20	µg/L	100		103	40-160			†
tert-Butyl Alcohol (TBA)	104	20	µg/L	100		104	40-160			†
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.30	0.50	µg/L	10.0		83.0	70-130			
Carbon Disulfide	118	5.0	µg/L	100		118	70-130			
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Chlorodibromomethane	9.90	0.50	µg/L	10.0		99.0	70-130			
Chloroethane	9.01	2.0	µg/L	10.0		90.1	70-130			
Chloroform	9.85	2.0	µg/L	10.0		98.5	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B335720 - SW-846 5030B										
LCS (B335720-BS1)										
Prepared & Analyzed: 03/31/23										
Chloromethane	10.8	2.0	µg/L	10.0		108	40-160			†
2-Chlorotoluene	9.68	1.0	µg/L	10.0		96.8	70-130			
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.48	5.0	µg/L	10.0		94.8	70-130			
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130			
Dibromomethane	10.0	1.0	µg/L	10.0		100	70-130			
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
trans-1,4-Dichloro-2-butene	7.96	2.0	µg/L	10.0		79.6	70-130			
Dichlorodifluoromethane (Freon 12)	10.5	2.0	µg/L	10.0		105	40-160			†
1,1-Dichloroethane	9.96	1.0	µg/L	10.0		99.6	70-130			
1,2-Dichloroethane	9.46	1.0	µg/L	10.0		94.6	70-130			
1,1-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,2-Dichloroethylene	9.97	1.0	µg/L	10.0		99.7	70-130			
1,2-Dichloropropane	9.81	1.0	µg/L	10.0		98.1	70-130			
1,3-Dichloropropane	9.90	0.50	µg/L	10.0		99.0	70-130			
2,2-Dichloropropane	9.20	1.0	µg/L	10.0		92.0	40-130			†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4	70-130			
trans-1,3-Dichloropropene	9.04	0.50	µg/L	10.0		90.4	70-130			
Diethyl Ether	10.5	2.0	µg/L	10.0		105	70-130			
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.0		100	70-130			
1,4-Dioxane	84.8	50	µg/L	100		84.8	40-130			†
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
Hexachlorobutadiene	10.5	0.60	µg/L	10.0		105	70-130			
2-Hexanone (MBK)	104	10	µg/L	100		104	70-160			†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106	70-130			
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104	70-130			
Methyl Acetate	10.8	1.0	µg/L	10.0		108	70-130			
Methyl tert-Butyl Ether (MTBE)	8.15	1.0	µg/L	10.0		81.5	70-130			
Methyl Cyclohexane	10.1	1.0	µg/L	10.0		101	70-130			
Methylene Chloride	9.65	5.0	µg/L	10.0		96.5	70-130			
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100		104	70-160			†
Naphthalene	9.94	2.0	µg/L	10.0		99.4	40-130			†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130			
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Tetrahydrofuran	9.85	10	µg/L	10.0		98.5	70-130			J
Toluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2,3-Trichlorobenzene	10.4	5.0	µg/L	10.0		104	70-130			
1,2,4-Trichlorobenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,3,5-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0		116	70-130			
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B335720 - SW-846 5030B
LCS (B335720-BS1)

Prepared & Analyzed: 03/31/23

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.0		114	70-130			
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
Vinyl Chloride	13.5	2.0	µg/L	10.0		135	40-160			V-20 †
m+p Xylene	21.1	2.0	µg/L	20.0		105	70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.6		µg/L	25.0		98.6	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

LCS Dup (B335720-BSD1)

Prepared & Analyzed: 03/31/23

Acetone	112	50	µg/L	100		112	70-160	5.55	25	†
Acrylonitrile	11.3	5.0	µg/L	10.0		113	70-130	7.08	25	
tert-Amyl Methyl Ether (TAME)	9.18	0.50	µg/L	10.0		91.8	70-130	13.7	25	
Benzene	9.86	1.0	µg/L	10.0		98.6	70-130	0.712	25	
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.63	25	
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130	2.13	25	
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130	5.59	25	
Bromoform	10.8	1.0	µg/L	10.0		108	70-130	3.30	25	
Bromomethane	8.87	2.0	µg/L	10.0		88.7	40-160	12.6	25	V-05 †
2-Butanone (MEK)	111	20	µg/L	100		111	40-160	7.28	25	†
tert-Butyl Alcohol (TBA)	120	20	µg/L	100		120	40-160	14.2	25	†
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.833	25	
sec-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.32	25	
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	0.577	25	
tert-Butyl Ethyl Ether (TBEE)	9.52	0.50	µg/L	10.0		95.2	70-130	13.7	25	
Carbon Disulfide	113	5.0	µg/L	100		113	70-130	4.36	25	
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106	70-130	1.62	25	
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.938	25	
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130	5.31	25	
Chloroethane	9.43	2.0	µg/L	10.0		94.3	70-130	4.56	25	
Chloroform	10.0	2.0	µg/L	10.0		100	70-130	1.61	25	
Chloromethane	11.8	2.0	µg/L	10.0		118	40-160	8.40	25	†
2-Chlorotoluene	9.97	1.0	µg/L	10.0		99.7	70-130	2.95	25	
4-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130	0.662	25	
1,2-Dibromo-3-chloropropane (DBCP)	11.3	5.0	µg/L	10.0		113	70-130	17.7	25	
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130	2.72	25	
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130	2.76	25	
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.34	25	
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.20	25	
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	1.48	25	
trans-1,4-Dichloro-2-butene	8.82	2.0	µg/L	10.0		88.2	70-130	10.3	25	
Dichlorodifluoromethane (Freon 12)	10.3	2.0	µg/L	10.0		103	40-160	1.44	25	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	3.65	25	
1,2-Dichloroethane	9.38	1.0	µg/L	10.0		93.8	70-130	0.849	25	
1,1-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	0.430	25	
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	0.0961	25	
trans-1,2-Dichloroethylene	9.96	1.0	µg/L	10.0		99.6	70-130	0.100	25	
1,2-Dichloropropane	9.69	1.0	µg/L	10.0		96.9	70-130	1.23	25	
1,3-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130	1.30	25	
2,2-Dichloropropane	9.87	1.0	µg/L	10.0		98.7	40-130	7.03	25	†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104	70-130	1.24	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B335720 - SW-846 5030B
LCS Dup (B335720-BSD1)

Prepared & Analyzed: 03/31/23

cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	3.03	25	
trans-1,3-Dichloropropene	9.39	0.50	µg/L	10.0		93.9	70-130	3.80	25	
Diethyl Ether	11.4	2.0	µg/L	10.0		114	70-130	8.07	25	
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.0		104	70-130	3.72	25	
1,4-Dioxane	95.5	50	µg/L	100		95.5	40-130	11.9	50	† ‡
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	0.191	25	
Hexachlorobutadiene	10.5	0.60	µg/L	10.0		105	70-130	0.0951	25	
2-Hexanone (MBK)	110	10	µg/L	100		110	70-160	5.70	25	†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130	1.14	25	
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105	70-130	1.44	25	
Methyl Acetate	10.9	1.0	µg/L	10.0		109	70-130	0.276	25	
Methyl tert-Butyl Ether (MTBE)	9.38	1.0	µg/L	10.0		93.8	70-130	14.0	25	
Methyl Cyclohexane	9.90	1.0	µg/L	10.0		99.0	70-130	2.40	25	
Methylene Chloride	10.0	5.0	µg/L	10.0		100	70-130	3.66	25	
4-Methyl-2-pentanone (MIBK)	111	10	µg/L	100		111	70-160	6.27	25	†
Naphthalene	10.8	2.0	µg/L	10.0		108	40-130	8.57	25	†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.936	25	
Styrene	10.6	1.0	µg/L	10.0		106	70-130	1.53	25	
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110	70-130	2.20	25	
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130	5.98	25	
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130	0.288	25	
Tetrahydrofuran	10.9	10	µg/L	10.0		109	70-130	9.85	25	
Toluene	10.0	1.0	µg/L	10.0		100	70-130	0.995	25	
1,2,3-Trichlorobenzene	11.1	5.0	µg/L	10.0		111	70-130	6.42	25	
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	3.25	25	
1,3,5-Trichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	1.90	25	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	1.95	25	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.66	25	
Trichloroethylene	9.57	1.0	µg/L	10.0		95.7	70-130	8.02	25	
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130	3.23	25	
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0		111	70-130	6.90	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0		111	70-130	2.49	25	
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	2.06	25	
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.89	25	
Vinyl Chloride	13.1	2.0	µg/L	10.0		131	40-160	2.93	25	V-20 †
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130	0.426	25	
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130	1.32	25	
Surrogate: 1,2-Dichloroethane-d4	24.6		µg/L	25.0		98.5	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.5	70-130			

Matrix Spike (B335720-MS1)

Source: 23C3284-02

Prepared & Analyzed: 03/31/23

Acetone	97.1	50	µg/L	100	ND	97.1	70-130			
Acrylonitrile	8.98	5.0	µg/L	10.0	ND	89.8	70-130			
tert-Amyl Methyl Ether (TAME)	8.47	0.50	µg/L	10.0	ND	84.7	70-130			
Benzene	9.35	1.0	µg/L	10.0	ND	93.5	70-130			
Bromobenzene	9.92	1.0	µg/L	10.0	ND	99.2	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.0	ND	104	70-130			
Bromodichloromethane	9.19	0.50	µg/L	10.0	ND	91.9	70-130			
Bromoform	9.65	1.0	µg/L	10.0	ND	96.5	70-130			
Bromomethane	4.92	2.0	µg/L	10.0	ND	49.2 *	70-130			
2-Butanone (MEK)	93.7	20	µg/L	100	ND	93.7	70-130			

MS-07A, V-05

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B335720 - SW-846 5030B										
Matrix Spike (B335720-MS1)	Source: 23C3284-02			Prepared & Analyzed: 03/31/23						
tert-Butyl Alcohol (TBA)	92.2	20	µg/L	100	ND	92.2	70-130			
n-Butylbenzene	9.82	1.0	µg/L	10.0	ND	98.2	70-130			
sec-Butylbenzene	10.1	1.0	µg/L	10.0	ND	101	70-130			
tert-Butylbenzene	10.4	1.0	µg/L	10.0	ND	104	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.65	0.50	µg/L	10.0	ND	86.5	70-130			
Carbon Disulfide	106	5.0	µg/L	100	ND	106	70-130			
Carbon Tetrachloride	10.1	5.0	µg/L	10.0	ND	101	70-130			
Chlorobenzene	10.4	1.0	µg/L	10.0	ND	104	70-130			
Chlorodibromomethane	9.55	0.50	µg/L	10.0	ND	95.5	70-130			
Chloroethane	10.1	2.0	µg/L	10.0	ND	101	70-130			
Chloroform	9.54	2.0	µg/L	10.0	ND	95.4	70-130			
Chloromethane	7.52	2.0	µg/L	10.0	ND	75.2	70-130			
2-Chlorotoluene	8.99	1.0	µg/L	10.0	ND	89.9	70-130			
4-Chlorotoluene	10.1	1.0	µg/L	10.0	ND	101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.47	5.0	µg/L	10.0	ND	84.7	70-130			
1,2-Dibromoethane (EDB)	9.79	0.50	µg/L	10.0	ND	97.9	70-130			
Dibromomethane	9.72	1.0	µg/L	10.0	ND	97.2	70-130			
1,2-Dichlorobenzene	9.70	1.0	µg/L	10.0	ND	97.0	70-130			
1,3-Dichlorobenzene	9.65	1.0	µg/L	10.0	ND	96.5	70-130			
1,4-Dichlorobenzene	9.47	1.0	µg/L	10.0	ND	94.7	70-130			
trans-1,4-Dichloro-2-butene	7.39	2.0	µg/L	10.0	ND	73.9	70-130			
Dichlorodifluoromethane (Freon 12)	10.2	2.0	µg/L	10.0	ND	102	70-130			
1,1-Dichloroethane	10.1	1.0	µg/L	10.0	0.330	97.3	70-130			
1,2-Dichloroethane	8.77	1.0	µg/L	10.0	ND	87.7	70-130			
1,1-Dichloroethylene	11.3	1.0	µg/L	10.0	0.240	110	70-130			
cis-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0	1.36	99.2	70-130			
trans-1,2-Dichloroethylene	9.55	1.0	µg/L	10.0	ND	95.5	70-130			
1,2-Dichloropropane	9.40	1.0	µg/L	10.0	ND	94.0	70-130			
1,3-Dichloropropane	9.50	0.50	µg/L	10.0	ND	95.0	70-130			
2,2-Dichloropropane	7.73	1.0	µg/L	10.0	ND	77.3	70-130			
1,1-Dichloropropene	10.1	2.0	µg/L	10.0	ND	101	70-130			
cis-1,3-Dichloropropene	8.90	0.50	µg/L	10.0	ND	89.0	70-130			
trans-1,3-Dichloropropene	8.75	0.50	µg/L	10.0	ND	87.5	70-130			
Diethyl Ether	10.4	2.0	µg/L	10.0	ND	104	70-130			
Diisopropyl Ether (DIPE)	9.87	0.50	µg/L	10.0	ND	98.7	70-130			
1,4-Dioxane	87.8	50	µg/L	100	ND	87.8	70-130			
Ethylbenzene	10.3	1.0	µg/L	10.0	ND	103	70-130			
Hexachlorobutadiene	9.02	0.60	µg/L	10.0	ND	90.2	70-130			
2-Hexanone (MBK)	96.0	10	µg/L	100	ND	96.0	70-130			
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0	ND	104	70-130			
p-Isopropyltoluene (p-Cymene)	9.98	1.0	µg/L	10.0	ND	99.8	70-130			
Methyl Acetate	8.45	1.0	µg/L	10.0	ND	84.5	70-130			
Methyl tert-Butyl Ether (MTBE)	8.72	1.0	µg/L	10.0	ND	87.2	70-130			
Methyl Cyclohexane	9.94	1.0	µg/L	10.0	ND	99.4	70-130			
Methylene Chloride	9.14	5.0	µg/L	10.0	ND	91.4	70-130			
4-Methyl-2-pentanone (MIBK)	99.2	10	µg/L	100	ND	99.2	70-130			
Naphthalene	15.2	2.0	µg/L	10.0	ND	152 *	70-130			MS-24
n-Propylbenzene	10.5	1.0	µg/L	10.0	ND	105	70-130			
Styrene	10.2	1.0	µg/L	10.0	ND	102	70-130			
1,1,1,2-Tetrachloroethane	10.7	1.0	µg/L	10.0	ND	107	70-130			
1,1,2,2-Tetrachloroethane	9.60	0.50	µg/L	10.0	ND	96.0	70-130			
Tetrachloroethylene	13.4	1.0	µg/L	10.0	2.73	106	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B335720 - SW-846 5030B										
Matrix Spike (B335720-MS1)	Source: 23C3284-02			Prepared & Analyzed: 03/31/23						
Tetrahydrofuran	9.01	10	µg/L	10.0	ND	90.1	70-130			J
Toluene	10.1	1.0	µg/L	10.0	ND	101	70-130			
1,2,3-Trichlorobenzene	8.70	5.0	µg/L	10.0	ND	87.0	70-130			
1,2,4-Trichlorobenzene	9.08	1.0	µg/L	10.0	ND	90.8	70-130			
1,3,5-Trichlorobenzene	9.41	1.0	µg/L	10.0	ND	94.1	70-130			
1,1,1-Trichloroethane	19.8	1.0	µg/L	10.0	9.57	102	70-130			
1,1,2-Trichloroethane	9.67	1.0	µg/L	10.0	ND	96.7	70-130			
Trichloroethylene	48.0	1.0	µg/L	10.0	37.8	103	70-130			
Trichlorofluoromethane (Freon 11)	11.2	2.0	µg/L	10.0	ND	112	70-130			
1,2,3-Trichloropropane	9.77	2.0	µg/L	10.0	ND	97.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0	0.370	107	70-130			
1,2,4-Trimethylbenzene	9.87	1.0	µg/L	10.0	ND	98.7	70-130			
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0	ND	101	70-130			
Vinyl Chloride	14.0	2.0	µg/L	10.0	ND	140	* 70-130			MS-15, V-20
m+p Xylene	20.9	2.0	µg/L	20.0	ND	104	70-130			
o-Xylene	10.4	1.0	µg/L	10.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.6		µg/L	25.0		94.4	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			
Matrix Spike Dup (B335720-MSD1)	Source: 23C3284-02			Prepared & Analyzed: 03/31/23						
Acetone	94.1	50	µg/L	100	ND	94.1	70-130	3.16	30	
Acrylonitrile	8.86	5.0	µg/L	10.0	ND	88.6	70-130	1.35	30	
tert-Amyl Methyl Ether (TAME)	8.41	0.50	µg/L	10.0	ND	84.1	70-130	0.711	30	
Benzene	9.30	1.0	µg/L	10.0	ND	93.0	70-130	0.536	30	
Bromobenzene	9.98	1.0	µg/L	10.0	ND	99.8	70-130	0.603	30	
Bromochloromethane	9.90	1.0	µg/L	10.0	ND	99.0	70-130	5.41	30	
Bromodichloromethane	9.28	0.50	µg/L	10.0	ND	92.8	70-130	0.975	30	
Bromoform	9.80	1.0	µg/L	10.0	ND	98.0	70-130	1.54	30	
Bromomethane	6.42	2.0	µg/L	10.0	ND	64.2	* 70-130	26.5	30	MS-07A, V-05
2-Butanone (MEK)	91.4	20	µg/L	100	ND	91.4	70-130	2.49	30	
tert-Butyl Alcohol (TBA)	87.8	20	µg/L	100	ND	87.8	70-130	4.91	30	
n-Butylbenzene	10.3	1.0	µg/L	10.0	ND	103	70-130	4.97	30	
sec-Butylbenzene	10.5	1.0	µg/L	10.0	ND	105	70-130	3.87	30	
tert-Butylbenzene	10.7	1.0	µg/L	10.0	ND	107	70-130	2.84	30	
tert-Butyl Ethyl Ether (TBEE)	8.82	0.50	µg/L	10.0	ND	88.2	70-130	1.95	30	
Carbon Disulfide	105	5.0	µg/L	100	ND	105	70-130	0.963	30	
Carbon Tetrachloride	9.96	5.0	µg/L	10.0	ND	99.6	70-130	1.20	30	
Chlorobenzene	10.6	1.0	µg/L	10.0	ND	106	70-130	1.43	30	
Chlorodibromomethane	9.41	0.50	µg/L	10.0	ND	94.1	70-130	1.48	30	
Chloroethane	9.14	2.0	µg/L	10.0	ND	91.4	70-130	9.68	30	
Chloroform	9.31	2.0	µg/L	10.0	ND	93.1	70-130	2.44	30	
Chloromethane	9.18	2.0	µg/L	10.0	ND	91.8	70-130	19.9	30	
2-Chlorotoluene	9.29	1.0	µg/L	10.0	ND	92.9	70-130	3.28	30	
4-Chlorotoluene	10.2	1.0	µg/L	10.0	ND	102	70-130	0.988	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.61	5.0	µg/L	10.0	ND	86.1	70-130	1.64	30	
1,2-Dibromoethane (EDB)	9.65	0.50	µg/L	10.0	ND	96.5	70-130	1.44	30	
Dibromomethane	9.67	1.0	µg/L	10.0	ND	96.7	70-130	0.516	30	
1,2-Dichlorobenzene	9.90	1.0	µg/L	10.0	ND	99.0	70-130	2.04	30	
1,3-Dichlorobenzene	9.99	1.0	µg/L	10.0	ND	99.9	70-130	3.46	30	
1,4-Dichlorobenzene	9.77	1.0	µg/L	10.0	ND	97.7	70-130	3.12	30	
trans-1,4-Dichloro-2-butene	7.90	2.0	µg/L	10.0	ND	79.0	70-130	6.67	30	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B335720 - SW-846 5030B										
Matrix Spike Dup (B335720-MSD1)	Source: 23C3284-02			Prepared & Analyzed: 03/31/23						
Dichlorodifluoromethane (Freon 12)	9.69	2.0	µg/L	10.0	ND	96.9	70-130	5.13	30	
1,1-Dichloroethane	9.84	1.0	µg/L	10.0	0.330	95.1	70-130	2.21	30	
1,2-Dichloroethane	8.67	1.0	µg/L	10.0	ND	86.7	70-130	1.15	30	
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0	0.240	109	70-130	1.70	30	
cis-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0	1.36	98.2	70-130	0.890	30	
trans-1,2-Dichloroethylene	9.43	1.0	µg/L	10.0	ND	94.3	70-130	1.26	30	
1,2-Dichloropropane	9.03	1.0	µg/L	10.0	ND	90.3	70-130	4.02	30	
1,3-Dichloropropane	9.38	0.50	µg/L	10.0	ND	93.8	70-130	1.27	30	
2,2-Dichloropropane	7.82	1.0	µg/L	10.0	ND	78.2	70-130	1.16	30	
1,1-Dichloropropene	9.82	2.0	µg/L	10.0	ND	98.2	70-130	2.61	30	
cis-1,3-Dichloropropene	9.15	0.50	µg/L	10.0	ND	91.5	70-130	2.77	30	
trans-1,3-Dichloropropene	8.60	0.50	µg/L	10.0	ND	86.0	70-130	1.73	30	
Diethyl Ether	10.1	2.0	µg/L	10.0	ND	101	70-130	2.82	30	
Diisopropyl Ether (DIPE)	9.44	0.50	µg/L	10.0	ND	94.4	70-130	4.45	30	
1,4-Dioxane	87.9	50	µg/L	100	ND	87.9	70-130	0.0341	30	
Ethylbenzene	10.6	1.0	µg/L	10.0	ND	106	70-130	2.77	30	
Hexachlorobutadiene	10.0	0.60	µg/L	10.0	ND	100	70-130	10.4	30	
2-Hexanone (MBK)	93.6	10	µg/L	100	ND	93.6	70-130	2.58	30	
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0	ND	106	70-130	1.91	30	
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0	ND	104	70-130	3.64	30	
Methyl Acetate	8.65	1.0	µg/L	10.0	ND	86.5	70-130	2.34	30	
Methyl tert-Butyl Ether (MTBE)	8.44	1.0	µg/L	10.0	ND	84.4	70-130	3.26	30	
Methyl Cyclohexane	9.94	1.0	µg/L	10.0	ND	99.4	70-130	0.00	30	
Methylene Chloride	8.70	5.0	µg/L	10.0	ND	87.0	70-130	4.93	30	
4-Methyl-2-pentanone (MIBK)	96.6	10	µg/L	100	ND	96.6	70-130	2.70	30	
Naphthalene	11.3	2.0	µg/L	10.0	ND	113	70-130	29.3	30	
n-Propylbenzene	10.8	1.0	µg/L	10.0	ND	108	70-130	2.25	30	
Styrene	10.3	1.0	µg/L	10.0	ND	103	70-130	0.293	30	
1,1,1,2-Tetrachloroethane	10.5	1.0	µg/L	10.0	ND	105	70-130	1.23	30	
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0	ND	100	70-130	4.08	30	
Tetrachloroethylene	13.1	1.0	µg/L	10.0	2.73	104	70-130	1.81	30	
Tetrahydrofuran	9.32	10	µg/L	10.0	ND	93.2	70-130	3.38	30	J
Toluene	10.0	1.0	µg/L	10.0	ND	100	70-130	0.993	30	
1,2,3-Trichlorobenzene	9.91	5.0	µg/L	10.0	ND	99.1	70-130	13.0	30	
1,2,4-Trichlorobenzene	9.84	1.0	µg/L	10.0	ND	98.4	70-130	8.03	30	
1,3,5-Trichlorobenzene	9.91	1.0	µg/L	10.0	ND	99.1	70-130	5.18	30	
1,1,1-Trichloroethane	19.5	1.0	µg/L	10.0	9.57	99.0	70-130	1.63	30	
1,1,2-Trichloroethane	9.63	1.0	µg/L	10.0	ND	96.3	70-130	0.415	30	
Trichloroethylene	48.6	1.0	µg/L	10.0	37.8	108	70-130	1.14	30	
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0	ND	110	70-130	1.53	30	
1,2,3-Trichloropropane	9.87	2.0	µg/L	10.0	ND	98.7	70-130	1.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0	1.0	µg/L	10.0	0.370	106	70-130	0.996	30	
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0	ND	102	70-130	3.29	30	
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0	ND	105	70-130	3.68	30	
Vinyl Chloride	13.4	2.0	µg/L	10.0	ND	134	* 70-130	4.25	30	MS-15, V-20
m+p Xylene	21.0	2.0	µg/L	20.0	ND	105	70-130	0.382	20	
o-Xylene	10.6	1.0	µg/L	10.0	ND	106	70-130	1.90	30	
Surrogate: 1,2-Dichloroethane-d4	23.2		µg/L	25.0		92.6	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B335766 - SW-846 3005A

Blank (B335766-BLK1)

Prepared: 03/31/23 Analyzed: 04/11/23

Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							

LCS (B335766-BS1)

Prepared: 03/31/23 Analyzed: 04/11/23

Cadmium	0.509	0.0040	mg/L	0.500		102	80-120			
Chromium	0.504	0.010	mg/L	0.500		101	80-120			
Copper	0.944	0.010	mg/L	1.00		94.4	80-120			
Nickel	0.513	0.010	mg/L	0.500		103	80-120			

LCS Dup (B335766-BSD1)

Prepared: 03/31/23 Analyzed: 04/11/23

Cadmium	0.507	0.0040	mg/L	0.500		101	80-120	0.290	20	
Chromium	0.504	0.010	mg/L	0.500		101	80-120	0.0789	20	
Copper	0.946	0.010	mg/L	1.00		94.6	80-120	0.294	20	
Nickel	0.510	0.010	mg/L	0.500		102	80-120	0.582	30	

Matrix Spike (B335766-MS1)

Source: 23C3284-02

Prepared: 03/31/23 Analyzed: 04/11/23

Cadmium	0.491	0.0040	mg/L	0.500	ND	98.3	75-125			
Chromium	0.747	0.010	mg/L	0.500	0.275	94.4	75-125			
Copper	0.928	0.010	mg/L	1.00	ND	92.8	75-125			
Nickel	1.13	0.010	mg/L	0.500	0.676	90.4	75-125			

Matrix Spike Dup (B335766-MSD1)

Source: 23C3284-02

Prepared: 03/31/23 Analyzed: 04/11/23

Cadmium	0.516	0.0040	mg/L	0.500	ND	103	75-125	4.78	20	
Chromium	0.777	0.010	mg/L	0.500	0.275	100	75-125	3.99	20	
Copper	0.977	0.010	mg/L	1.00	ND	97.7	75-125	5.19	20	
Nickel	1.17	0.010	mg/L	0.500	0.676	98.1	75-125	3.34	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010D in Water</i>	
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

FedEx® Tracking

DELIVERED

Wednesday

3/29/2023 at 9:59 am

Signed for by: LARROYO

[↓ Obtain Proof of delivery](#)

How was your delivery?



DELIVERY STATUS

Delivered

TRACKING ID

635799779579

FROM
MELVILLE, NY US*Label Created*
3/28/2023 4:05 PM**PACKAGE RECEIVED BY FEDEX**
MELVILLE, NY
3/28/2023 5:52 PM**IN TRANSIT**
WINDSOR LOCKS, CT
3/29/2023 7:40 AM**OUT FOR DELIVERY**
WINDSOR LOCKS, CT
3/29/2023 7:49 AM**DELIVERED**
EAST LONGMEADOW, MA US*Delivered*
3/29/2023 at 9:59 AM[↓ View travel history](#)

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SUBMIT

MORE OPTIONS

Manage Delivery

Shipment facts

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0009V02 Sample Receiving Checklist 1-12-2003

52

Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
- Using Acceptance Policy) Any False statement will be
brought to the attention of the Client - True or False



Client NYDEC / EAR

Project Genzale Plating Co

MCP/RCP Required —

Deliverable Package Req. NYDEC Cat B

Location 288 New Hyde Park Rd, Forks Sq.

PWSID# (When Applicable) —

Arrival Method:

Courier ☐ Fed Ex ☒ Walk In ☐ Other ☐

Received By / Date / Time LA 3/29/23 9:59

Back-Sheet By / Date / Time SJD 3/29/23 16:40

Temperature Method Gun # 5

Temp ☒ < 6°C Actual Temperature 4.3

Rush Samples: Yes ☐ No ☒ Notify —

Short Hold: Yes ☒ No ☐ Notify Hex chrome subbed

Notes regarding Samples/COC outside of SOP:

* Hex Chrome Samples

NOT RECORDED

* Extra Sample named MW-X
recorded but not on COC.

Received on Ice ☒

Received in Cooler ☒

Custody Seal: DATE ☐ TIME ☐

COC Relinquished ☒

COC/Samples Labels Agree ☒ 88

All Samples in Good Condition ☒

Samples Received within Holding Time ☒

Is there enough Volume ☒

Proper Media/Container Used ☐

Splitting Samples Required ☐

MS/MSD ☒

Trip Blanks ☒

Lab 40 Blanks ☒

COC Legible ☒

COC Included: (Check all included)

Client ☒

Analysis ☒

Sampler Name ☒

Project ☒

IDs ☒

Collection Date/Time ☒

All Samples Proper pH: N/A ☒

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	Na2S2O3	Other Preservative
1L Amber Plastic								
500 mL Amber Plastic								
250 mL Amber Plastic								
Other Amber Clear Plastic								
16oz Amber Clear								
8oz Amber Clear								
4oz Amber Clear								
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								
Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials	N/A	20						



April 03, 2023

Kyle Stuckey
Pace-Contest
39 Spruce St.
East Longmeadow, MA

RE: Project: 23C3284
Pace Project No.: 70250978

Dear Kyle Stuckey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Matthew T. Nemeth
matthew.nemeth@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Jessica Hoffman, Con-Test
Raymond McCarthy, Pace Analytical Services - New
England

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23C3284
Pace Project No.: 70250978

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23C3284
Pace Project No.: 70250978

Sample: 23C3284-01		Lab ID: 70250978001		Collected: 03/28/23 10:02		Received: 03/28/23 14:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		03/28/23 16:11	18540-29-9		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 23C3284
Pace Project No.: 70250978

Sample: 23C3284-02		Lab ID: 70250978002		Collected: 03/28/23 10:50		Received: 03/28/23 14:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	0.30	mg/L	0.020	1		03/28/23 16:12	18540-29-9	M1	

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ANALYTICAL RESULTS

Project: 23C3284
Pace Project No.: 70250978

Sample: 23C3284-04		Lab ID: 70250978004		Collected: 03/28/23 12:34		Received: 03/28/23 14:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		03/28/23 16:16	18540-29-9		

REPORT OF LABORATORY ANALYSIS

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Date: 04/03/2023 05:00 PM



ANALYTICAL RESULTS

Project: 23C3284

Pace Project No.: 70250978

Sample: 23C3284-05		Lab ID: 70250978005		Collected: 03/28/23 13:25		Received: 03/28/23 14:52		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent		<0.020	mg/L	0.020	1		03/28/23 16:17	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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Date: 04/03/2023 05:00 PM



ANALYTICAL RESULTS

Project: 23C3284

Pace Project No.: 70250978

Sample: 23C3284-06		Lab ID: 70250978006		Collected: 03/28/23 13:45		Received: 03/28/23 14:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		03/28/23 16:18	18540-29-9		

REPORT OF LABORATORY ANALYSIS

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Date: 04/03/2023 05:00 PM



ANALYTICAL RESULTS

Project: 23C3284
Pace Project No.: 70250978

Sample: 23C3284-08		Lab ID: 70250978008		Collected: 03/28/23 00:00	Received: 03/28/23 14:52	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville						
Chromium, Hexavalent	0.29	mg/L	0.020	1		03/28/23 16:10	18540-29-9	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 23C3284

Pace Project No.: 70250978

QC Batch: 299503

Analysis Method: EPA 7196A

QC Batch Method: EPA 7196A

Analysis Description: 7196 Chromium, Hexavalent

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70250978001, 70250978002, 70250978003, 70250978004, 70250978005, 70250978006, 70250978008

METHOD BLANK: 1516096

Matrix: Water

Associated Lab Samples: 70250978001, 70250978002, 70250978003, 70250978004, 70250978005, 70250978006, 70250978008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	03/28/23 16:08	

LABORATORY CONTROL SAMPLE: 1516097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	98	85-115	

MATRIX SPIKE SAMPLE: 1516098

Parameter	Units	70250978002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.30	0.2	0.44	69	85-115	M1

SAMPLE DUPLICATE: 1516099

Parameter	Units	70250978002 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	0.30	0.30	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Date: 04/03/2023 05:00 PM



QUALIFIERS

Project: 23C3284
Pace Project No.: 70250978

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23C3284
Pace Project No.: 70250978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70250978001	23C3284-01	EPA 7196A	299503		
70250978002	23C3284-02	EPA 7196A	299503		
70250978003	23C3284-03	EPA 7196A	299503		
70250978004	23C3284-04	EPA 7196A	299503		
70250978005	23C3284-05	EPA 7196A	299503		
70250978006	23C3284-06	EPA 7196A	299503		
70250978008	23C3284-08	EPA 7196A	299503		

REPORT OF LABORATORY ANALYSIS

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WO#: 70250978



CONTRACT CHAIN OF CUSTODY

Pace New England

23C3284

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Kyle K. Stuckey

RECEIVING LABORATORY:

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
Phone : (516) 370-6000
Fax: -

Analysis	Due	Expires	Comments
Sample ID: 23C3284-01 MW-15S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 10:02 03/29/23 10:02	CAT B
Sample ID: 23C3284-02 MW-18S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 10:50 03/29/23 10:50	CAT B MS/MSD
Sample ID: 23C3284-03 MW-3S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 11:40 03/29/23 11:40	CAT B
Sample ID: 23C3284-04 MW-17S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 12:34 03/29/23 12:34	CAT B
Sample ID: 23C3284-05 MW-19S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 13:25 03/29/23 13:25	CAT B
Sample ID: 23C3284-06 FieldBlank_20230328 Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 13:45 03/29/23 13:45	CAT B

Released By

Date

Received By

Date

Released By

Date

Received By

Date

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

23C3284

Analysis	Due	Expires	Comments
Sample ID: 23C3284-07 TripBlank_20230328 Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 00:00 03/29/23 00:00	CAT B
Sample ID: 23C3284-08 MW-X Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 00:00 03/29/23 00:00	CAT B

WO#: 70250978

PM: MN2 Due Date: 04/07/23
CLIENT: Pace-CON

Released By	Date	Received By	Date
		<i>[Signature]</i>	3/28/23 14:52
Released By	Date	Received By	Date

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Emergency: 825 Atlantic Ave Patchogue, NY

Phone: 631-447-6400 ext 131

Project Location: 288 New Hyde Park Franklin Square

Project Number: #130018

Project Manager: J. Lawrence (EM) S. Scharf (DEC)

Pace Analytical Quote Name/Number DEC callout #144103

Invoice Recipient: KCBV

Sampled By: KCBV

Client Sample ID: MW-155

Client Sample ID: MW-185

Client Sample ID: MW-35

Client Sample ID: MW-175

Client Sample ID: MW-195

Client Sample ID: FIELD BLANK - 20230328

Client Sample ID: TUBE BLANK - 20230328

Client Sample ID: MW-155

Client Sample ID: MW-185

Client Sample ID: MW-35

Client Sample ID: MW-175

Client Sample ID: MW-195

Client Sample ID: FIELD BLANK - 20230328

Client Sample ID: TUBE BLANK - 20230328

Client Sample ID: MW-155

Client Sample ID: MW-185

Client Sample ID: MW-35

Client Sample ID: MW-175

Client Sample ID: MW-195

Client Sample ID: FIELD BLANK - 20230328

Client Sample ID: TUBE BLANK - 20230328

Client Sample ID: MW-155

Client Sample ID: MW-185

Client Sample ID: MW-35

Client Sample ID: MW-175

Client Sample ID: MW-195

Client Sample ID: FIELD BLANK - 20230328

Client Sample ID: TUBE BLANK - 20230328

Client Sample ID: MW-155

Client Sample ID: MW-185

Client Sample ID: MW-35

Client Sample ID: MW-175

Client Sample ID: MW-195

Client Sample ID: FIELD BLANK - 20230328

Client Sample ID: TUBE BLANK - 20230328

Client Sample ID: MW-155

Client Sample ID: MW-185

Requested Turnaround Time

7-Day ☐ 10-Day ☒

Due Date:

1-Day ☐ 3-Day ☐

2-Day ☐ 4-Day ☐

Format: PDF ☒ EXCEL ☐

Other: EQUIS EDD

CLP Like Data Pkg Required: ☐

Email To: J.Lawrence@pacelabs.com

Fax To #: 612-607-6344

Formal: ☐ Informal: ☐

Field: ☐ Lab: ☐

Field: ☐ Lab: ☐

Field: ☐ Lab: ☐

Field: ☐ Lab: ☐

Field: ☐ Lab: ☐

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of Containers

Preservation Code

Container Code

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Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please define)

Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium

Thiosulfate

O = Other (please define)

Container Codes:

A = Amber Glass

G = Glass

P = Plastic

ST = Sterile

V = Vial

S = Summa Canister

T = Tedlar Bag

O = Other (please define)

PCB ONLY

Soxhlet

Non Soxhlet

Enhanced Data Package

NYSDEC EQUIS EDD

EQUIS (Standard) EDD

NY Regulatory EDD

NY Regs Hits-Only EDD

Other

Chromatogram

AIHA-LAP, LLC

AWRA

School

MBTA

Municipality

21 J

Brownfield

Signature

Date/Time

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Sample Condition Upon Receipt

WO#: 70250978

68

Pace Analytical®

Client Name:

Pace - New England

Proj:

PM: MN2

Due Date: 04/07/23

CLIENT: Pace-CON

Courier: ☐ Fed-Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH0: TH148 Correction Factor:

Cooler Temperature(°C): 1.4 Cooler Temperature Corrected(°C): 1.5

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)Temperature Blank Present: ☐ Yes ☒ No

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: A.S. 3/28/23

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ Noincluding Hawaii and Puerto Rico? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☒ Yes ☐ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6.
Rush Turn Around Time Requested:	☒ Yes ☐ No A.S. 3/28/23	7.
Sufficient Volume: (Triple volume provided for)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☒ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes ☐ No	12. NO Hexachrome sample received for Sample #007
-Includes date/time/ID, Matrix: SL WT OIL		
All containers needing preservation have been checked?	☐ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #		
All containers needing preservation are found to be in compliance with method recommendation?		Sample #
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☐ Yes ☐ No ☒ N/A		
NAOH>12 Cyanide)		
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRQ/8015 (water).		Initial when completed: Lot # of added preservative: Date/Time preservative added:
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sulfide?	☐ Yes ☐ No ☒ N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

VOA

SAMPLE DATA

1 - FORM I

ANALYSIS DATA SHEET

71

MW-15S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-01
		File ID:	E23V09011.D
Sampled:	03/28/23 10:02	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 12:14
Solids:		Preparation:	SW-846 5030B
		Dilution:	20
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	87	40	1000	J
107-13-1	Acrylonitrile		9.3	100	
994-05-8	tert-Amyl Methyl Ether (TAME)		2.6	10	
71-43-2	Benzene		3.7	20	
108-86-1	Bromobenzene		3.0	20	
74-97-5	Bromochloromethane		5.7	20	
75-27-4	Bromodichloromethane		3.2	10	
75-25-2	Bromoform		8.2	20	
74-83-9	Bromomethane		26	40	V-05
78-93-3	2-Butanone (MEK)		34	400	
75-65-0	tert-Butyl Alcohol (TBA)		85	400	
104-51-8	n-Butylbenzene		3.0	20	
135-98-8	sec-Butylbenzene		2.5	20	
98-06-6	tert-Butylbenzene		2.8	20	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		3.1	10	
75-15-0	Carbon Disulfide		31	100	
56-23-5	Carbon Tetrachloride		3.3	100	
108-90-7	Chlorobenzene		2.4	20	
124-48-1	Chlorodibromomethane		4.0	10	
75-00-3	Chloroethane		6.8	40	
67-66-3	Chloroform		2.8	40	
74-87-3	Chloromethane		10	40	
95-49-8	2-Chlorotoluene		3.1	20	
106-43-4	4-Chlorotoluene		3.1	20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		17	100	
106-93-4	1,2-Dibromoethane (EDB)		3.2	10	
74-95-3	Dibromomethane		6.4	20	
95-50-1	1,2-Dichlorobenzene		2.6	20	
541-73-1	1,3-Dichlorobenzene		2.7	20	
106-46-7	1,4-Dichlorobenzene		2.6	20	

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ANALYSIS DATA SHEET

72

MW-15S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-01
		File ID:	E23V09011.D
Sampled:	03/28/23 10:02	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 12:14
Solids:		Preparation:	SW-846 5030B
		Dilution:	20
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		30	40	
75-71-8	Dichlorodifluoromethane (Freon 12)		3.2	40	
75-34-3	1,1-Dichloroethane		2.7	20	
107-06-2	1,2-Dichloroethane		6.1	20	
75-35-4	1,1-Dichloroethylene		2.8	20	
156-59-2	cis-1,2-Dichloroethylene		2.8	20	
156-60-5	trans-1,2-Dichloroethylene		3.4	20	
78-87-5	1,2-Dichloropropane		3.9	20	
142-28-9	1,3-Dichloropropane		2.3	10	
594-20-7	2,2-Dichloropropane		7.0	20	
563-58-6	1,1-Dichloropropene		3.0	40	
10061-01-5	cis-1,3-Dichloropropene		3.3	10	
10061-02-6	trans-1,3-Dichloropropene		2.8	10	
60-29-7	Diethyl Ether		2.9	40	
108-20-3	Diisopropyl Ether (DIPE)		4.0	10	
123-91-1	1,4-Dioxane		360	1000	
100-41-4	Ethylbenzene		4.4	20	
87-68-3	Hexachlorobutadiene		9.4	12	
591-78-6	2-Hexanone (MBK)		24	200	
98-82-8	Isopropylbenzene (Cumene)		3.0	20	
99-87-6	p-Isopropyltoluene (p-Cymene)		2.5	20	
79-20-9	Methyl Acetate		12	20	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		3.4	20	
108-87-2	Methyl Cyclohexane		3.1	20	
75-09-2	Methylene Chloride		3.5	100	
108-10-1	4-Methyl-2-pentanone (MIBK)		26	200	
91-20-3	Naphthalene		7.6	40	
103-65-1	n-Propylbenzene		2.5	20	
100-42-5	Styrene		3.0	20	
630-20-6	1,1,1,2-Tetrachloroethane		3.2	20	

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ANALYSIS DATA SHEET

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MW-15S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-01
		File ID:	E23V09011.D
Sampled:	03/28/23 10:02	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 12:14
Solids:		Preparation:	SW-846 5030B
		Dilution:	20
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		2.7	10	
127-18-4	Tetrachloroethylene		3.4	20	
109-99-9	Tetrahydrofuran		9.8	200	
108-88-3	Toluene		4.5	20	
87-61-6	1,2,3-Trichlorobenzene		6.8	100	
120-82-1	1,2,4-Trichlorobenzene		6.0	20	
108-70-3	1,3,5-Trichlorobenzene		4.2	20	
71-55-6	1,1,1-Trichloroethane		3.0	20	
79-00-5	1,1,2-Trichloroethane		3.8	20	
79-01-6	Trichloroethylene		3.5	20	
75-69-4	Trichlorofluoromethane (Freon 11)		3.1	40	
96-18-4	1,2,3-Trichloropropane		5.5	40	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		4.2	20	
95-63-6	1,2,4-Trimethylbenzene		4.0	20	
108-67-8	1,3,5-Trimethylbenzene		3.0	20	
75-01-4	Vinyl Chloride		4.7	40	
108383/106423	m+p Xylene		9.8	40	
95-47-6	o-Xylene		4.9	20	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09011.D
 Acq On : 31 Mar 2023 12:14 pm
 Operator :
 Sample : 23C3284-01 @ 20X F
 Misc : 20
 ALS Vial : 5 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 07:39:50 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

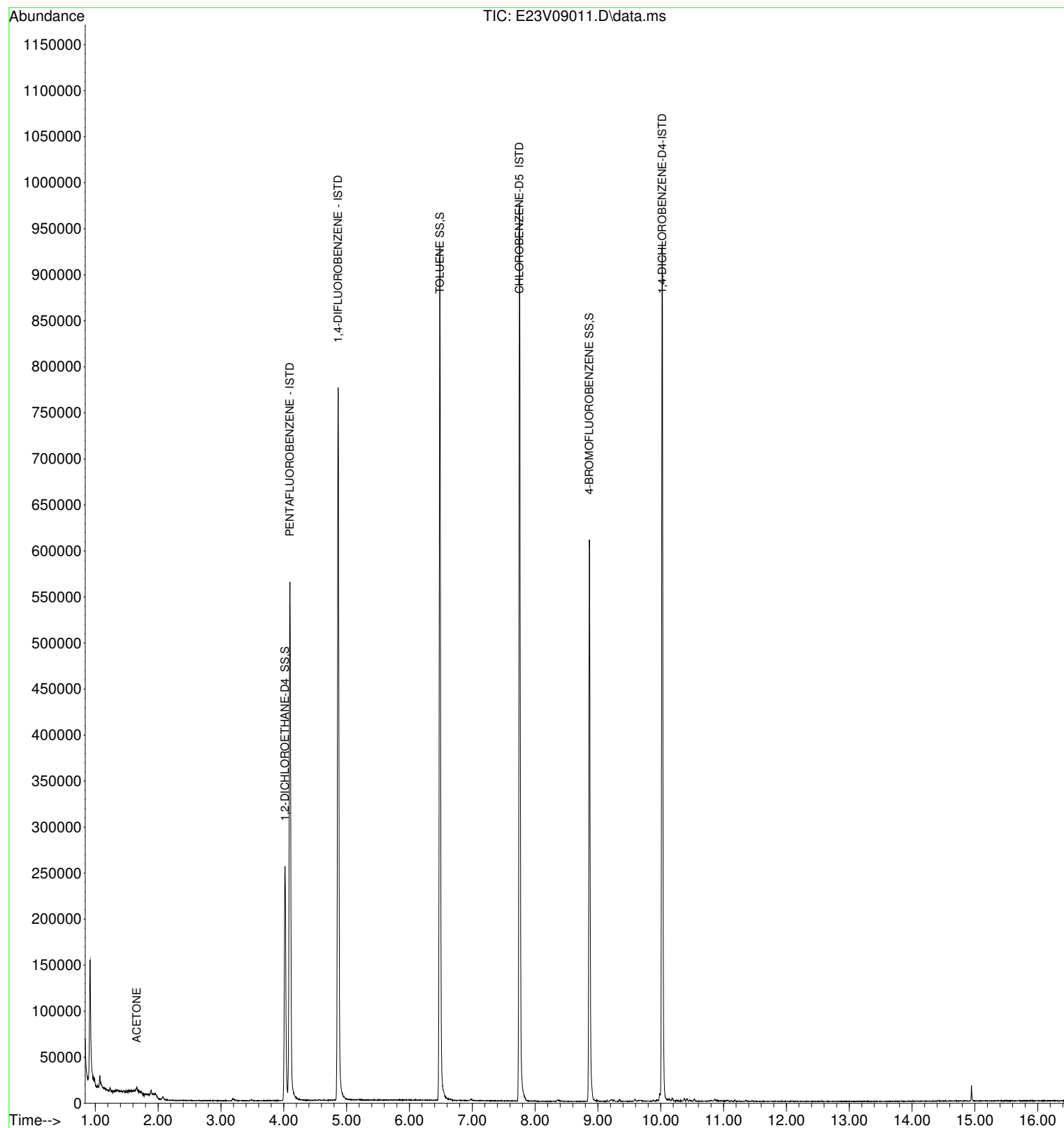
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.097	168	379043	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.864	114	562123	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.750	82	260711	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	222854	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.019	65	157148	25.02	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.08%
50) TOLUENE SS	6.484	98	529690	24.49	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.96%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	176738	24.29	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.16%
Target Compounds						
14) ACETONE	1.657	43	4635	4.37	UG/L	Qvalue 89

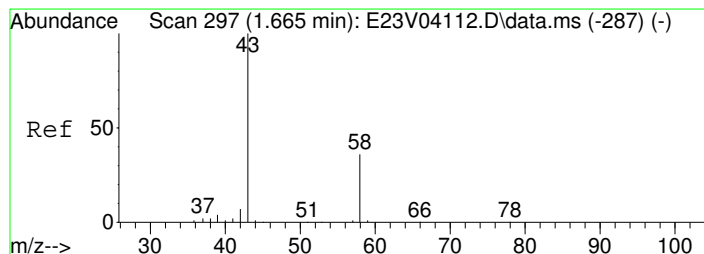
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09011.D
Acq On : 31 Mar 2023 12:14 pm
Operator :
Sample : 23C3284-01 @ 20X F
Misc : 20
ALS Vial : 5 Sample Multiplier: 1

Inst : GCMSVOA5

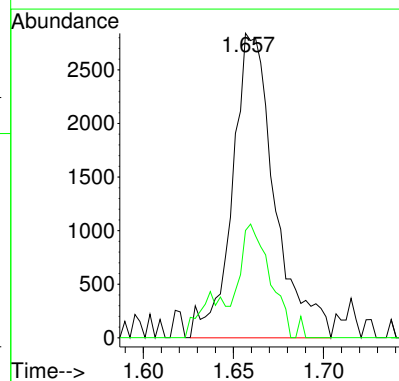
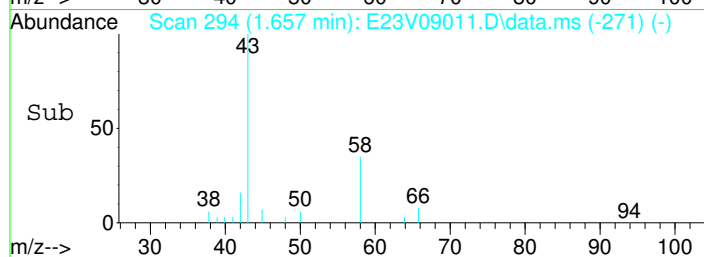
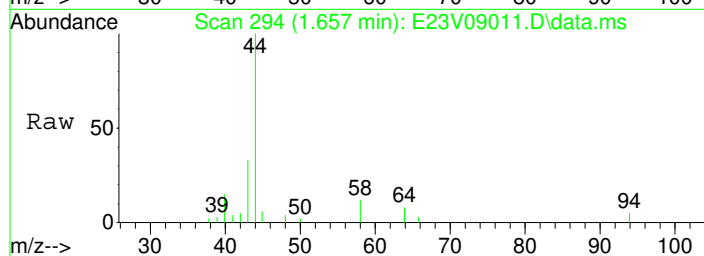
Quant Time: Apr 03 07:39:50 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration





#14
ACETONE
Concen: 4.37 UG/L
RT: 1.657 min Scan# 294
Delta R.T. -0.008 min
Lab File: E23V09011.D
Acq: 31 Mar 2023 12:14 pm

Tgt Ion: 43 Resp: 4635
Ion Ratio Lower Upper
43 100
58 26.1 25.9 38.9

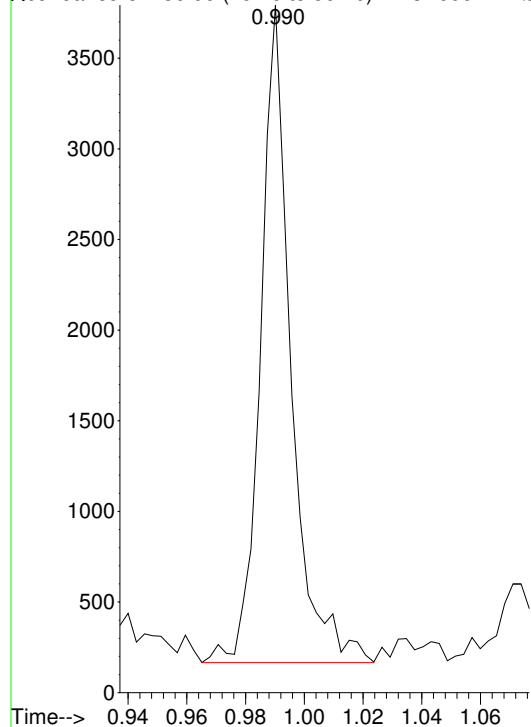


Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09011.D
Acq On : 31 Mar 2023 12:14 pm
Operator :
Sample : 23C3284-01 @ 20X F
Misc : 20

Quant Time : Mon Apr 03 07:39:50 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration
CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09011.D



Original Int. Results

RT : 0.99
Area : 2596
Amount: 0.582042

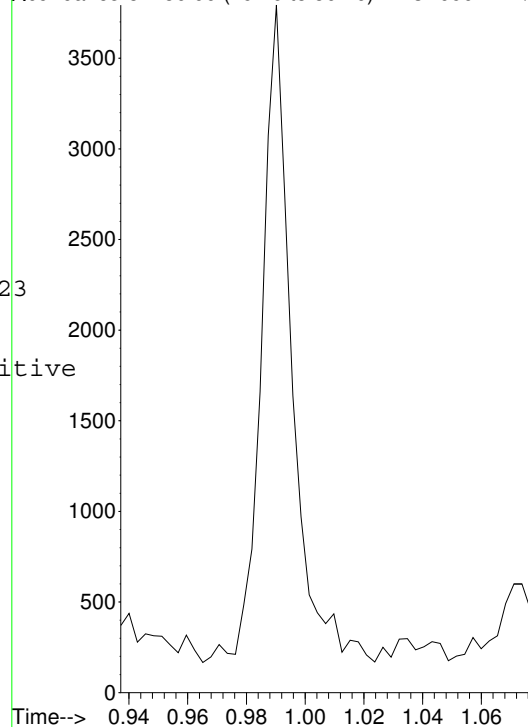
Manual Int. Results

Mon Apr 03 07:39:32 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

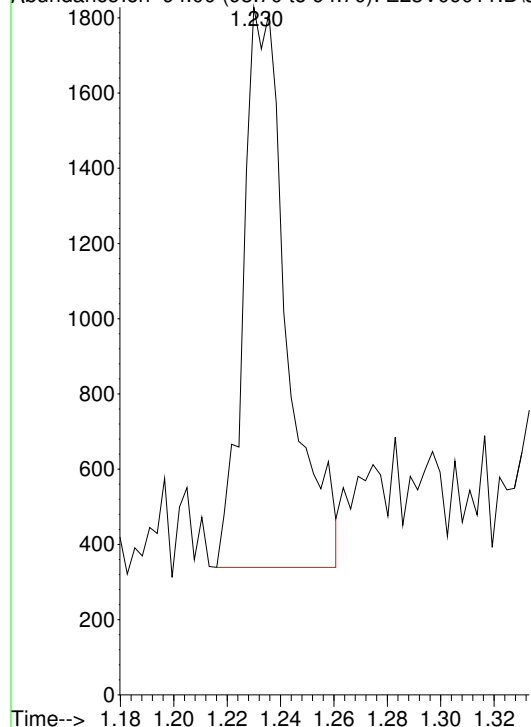
Manual Integration
CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09011.D



Original Integration
BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09011.D



Original Int. Results

RT : 1.23
Area : 1685
Amount: 0.666947

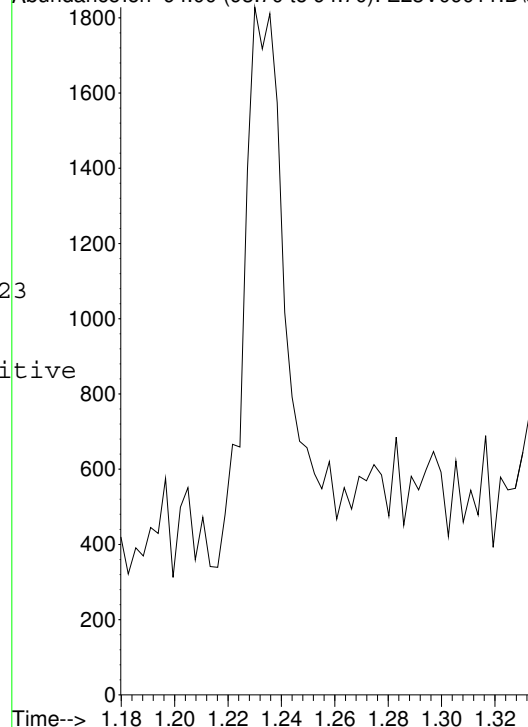
Manual Int. Results

Mon Apr 03 07:39:34 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09011.D



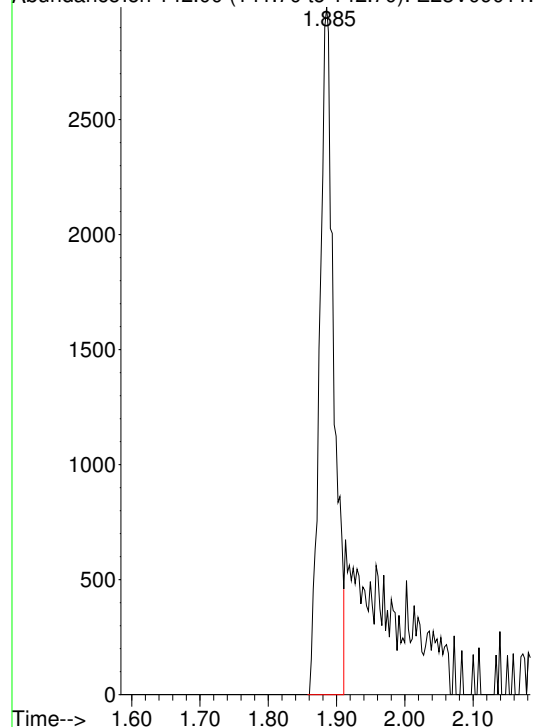
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09011.D
Acq On : 31 Mar 2023 12:14 pm
Operator :
Sample : 23C3284-01 @ 20X F
Misc : 20

Quant Time : Mon Apr 03 07:39:50 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09011.D



Original Int. Results

RT : 1.89
Area : 4277
Amount: 0.892378

Manual Int. Results

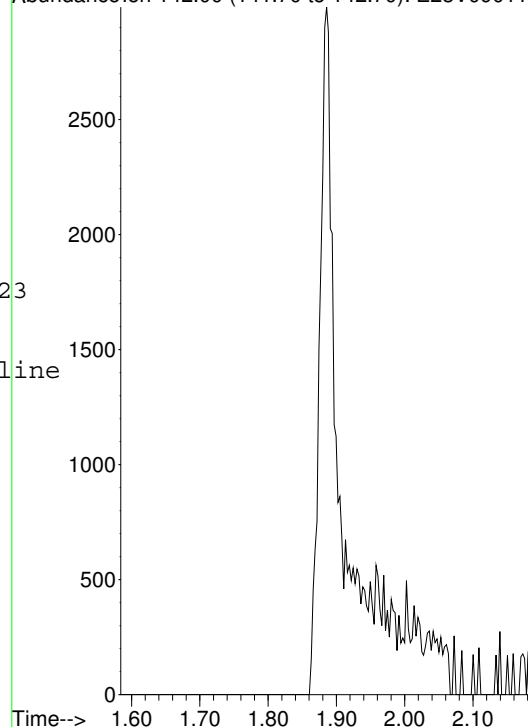
Mon Apr 03 07:39:38 2023

MIuser: eeh
Reason: Incorrect Baseline
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

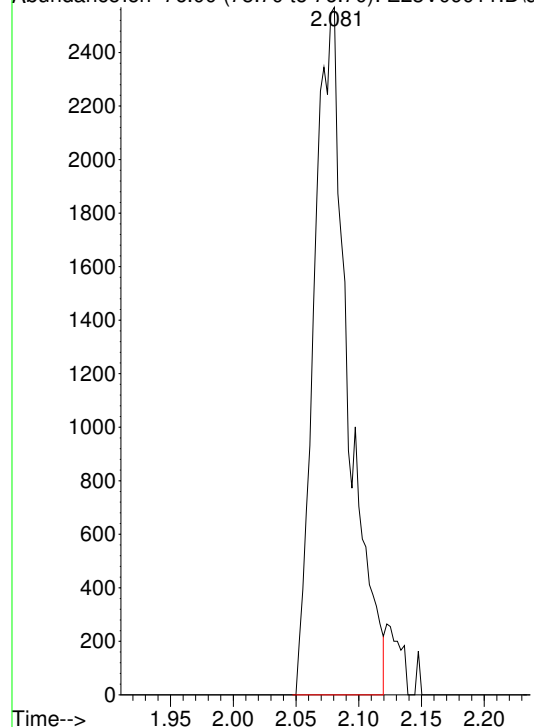
Abundance on 142.00 (141.70 to 142.70): E23V09011.D



Original Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09011.D



Original Int. Results

RT : 2.08
Area : 4804
Amount: 0.454142

Manual Int. Results

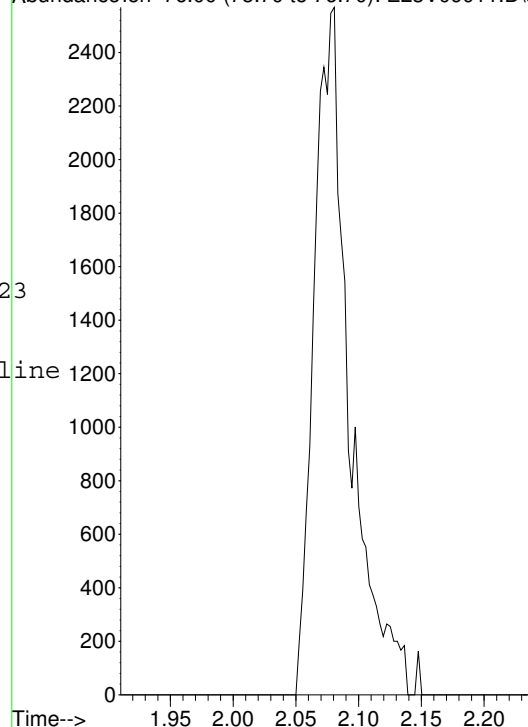
Mon Apr 03 07:39:40 2023

MIuser: eeh
Reason: Incorrect Baseline
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09011.D



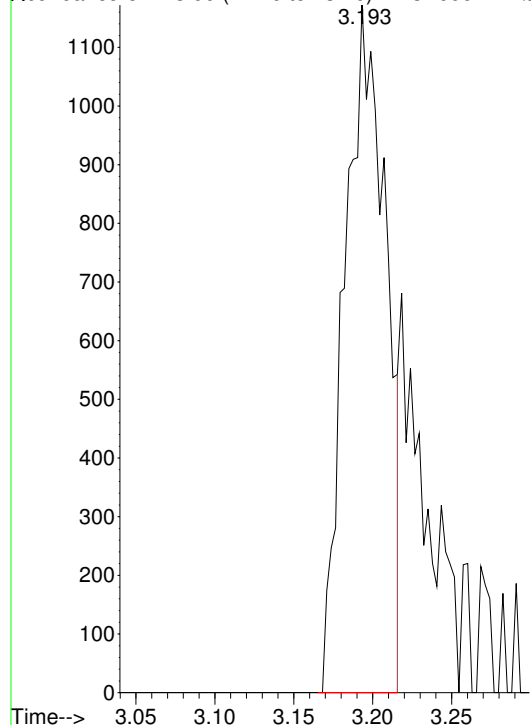
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09011.D
Acq On : 31 Mar 2023 12:14 pm
Operator :
Sample : 23C3284-01 @ 20X F
Misc : 20

Quant Time : Mon Apr 03 07:39:50 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V09011.D



Original Int. Results

RT : 3.19
Area : 2108
Amount: 1.24596

Manual Int. Results

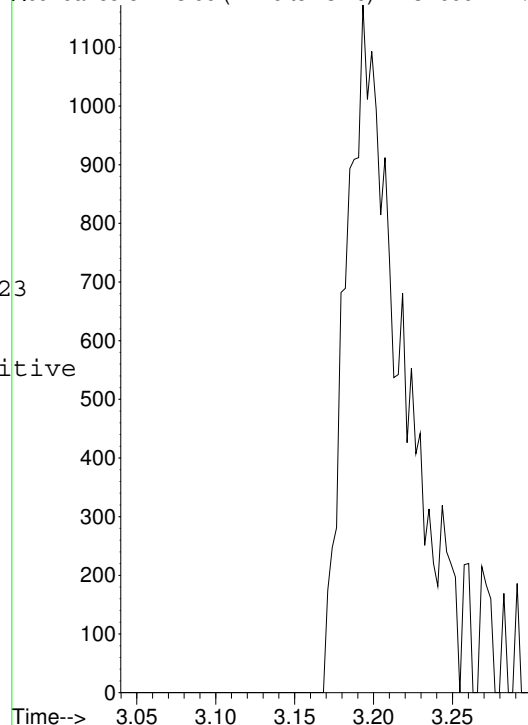
Mon Apr 03 07:39:43 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

2-BUTANONE

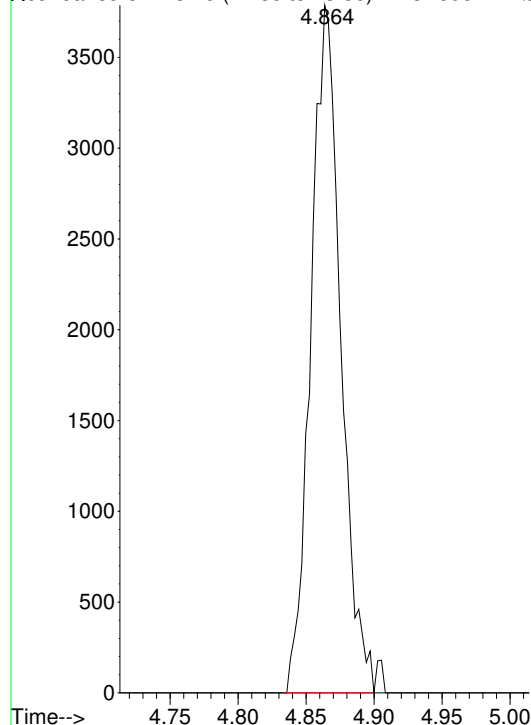
Abundance on 43.00 (42.70 to 43.70): E23V09011.D



Original Integration

T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09011.D



Original Int. Results

RT : 4.86
Area : 5793
Amount: 0.643318

Manual Int. Results

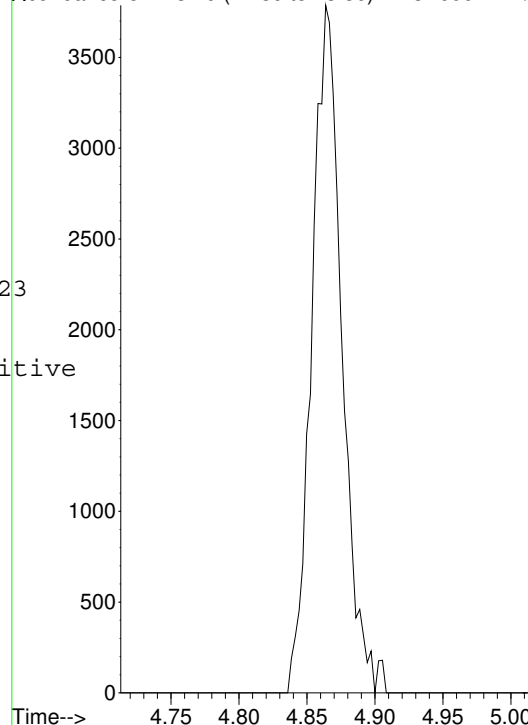
Mon Apr 03 07:39:47 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09011.D



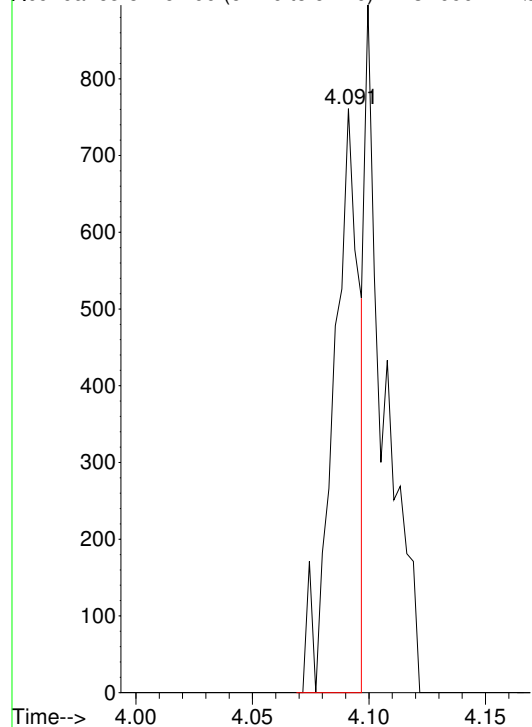
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09011.D
Acq On : 31 Mar 2023 12:14 pm
Operator :
Sample : 23C3284-01 @ 20X F
Misc : 20

Quant Time : Mon Apr 03 07:39:50 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09011.D\data



Original Int. Results

RT : 4.09
Area : 582
Amount: 0.130216

Manual Int. Results

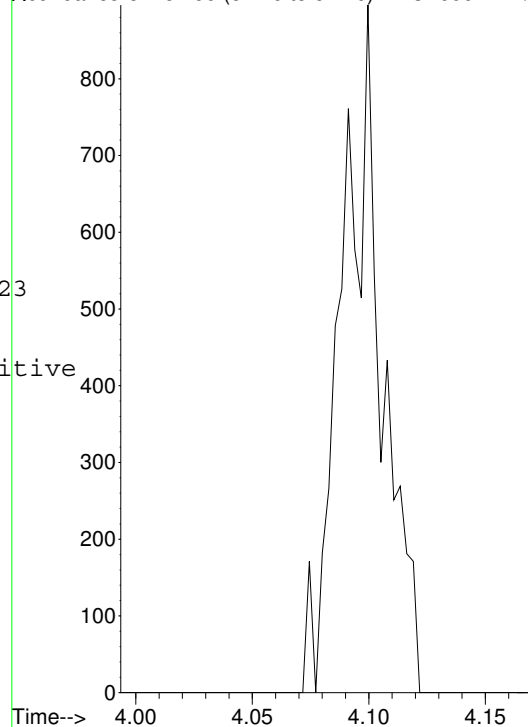
Mon Apr 03 07:39:49 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09011.D\data



1 - FORM I

ANALYSIS DATA SHEET

81

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-02
		File ID:	E23V09012.D
Sampled:	03/28/23 10:50	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 12:42
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
107-13-1	Acrylonitrile		0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.13	0.50	
71-43-2	Benzene		0.18	1.0	
108-86-1	Bromobenzene		0.15	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	MS-07A, V-05
78-93-3	2-Butanone (MEK)		1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)		4.3	20	
104-51-8	n-Butylbenzene		0.15	1.0	
135-98-8	sec-Butylbenzene		0.13	1.0	
98-06-6	tert-Butylbenzene		0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.15	0.50	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
95-49-8	2-Chlorotoluene		0.15	1.0	
106-43-4	4-Chlorotoluene		0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
74-95-3	Dibromomethane		0.32	1.0	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

82

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-02
		File ID:	E23V09012.D
Sampled:	03/28/23 10:50	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 12:42
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane	0.33	0.14	1.0	J
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene	0.24	0.14	1.0	J
156-59-2	cis-1,2-Dichloroethylene	1.4	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
142-28-9	1,3-Dichloropropane		0.12	0.50	
594-20-7	2,2-Dichloropropane		0.35	1.0	
563-58-6	1,1-Dichloropropene		0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
60-29-7	Diethyl Ether		0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)		0.20	0.50	
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
87-68-3	Hexachlorobutadiene		0.47	0.60	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.13	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
91-20-3	Naphthalene		0.38	2.0	
103-65-1	n-Propylbenzene		0.12	1.0	
100-42-5	Styrene		0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane		0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

83

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-02
		File ID:	E23V09012.D
Sampled:	03/28/23 10:50	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 12:42
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene	2.7	0.17	1.0	
109-99-9	Tetrahydrofuran		0.49	10	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene		0.21	1.0	
71-55-6	1,1,1-Trichloroethane	9.6	0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene	38	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
96-18-4	1,2,3-Trichloropropane		0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.37	0.21	1.0	J
95-63-6	1,2,4-Trimethylbenzene		0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.15	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
108383/106423	m+p Xylene		0.49	2.0	
95-47-6	o-Xylene		0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09012.D
 Acq On : 31 Mar 2023 12:42 pm
 Operator :
 Sample : 23C3284-02
 Misc : 1
 ALS Vial : 6 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 07:40:34 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

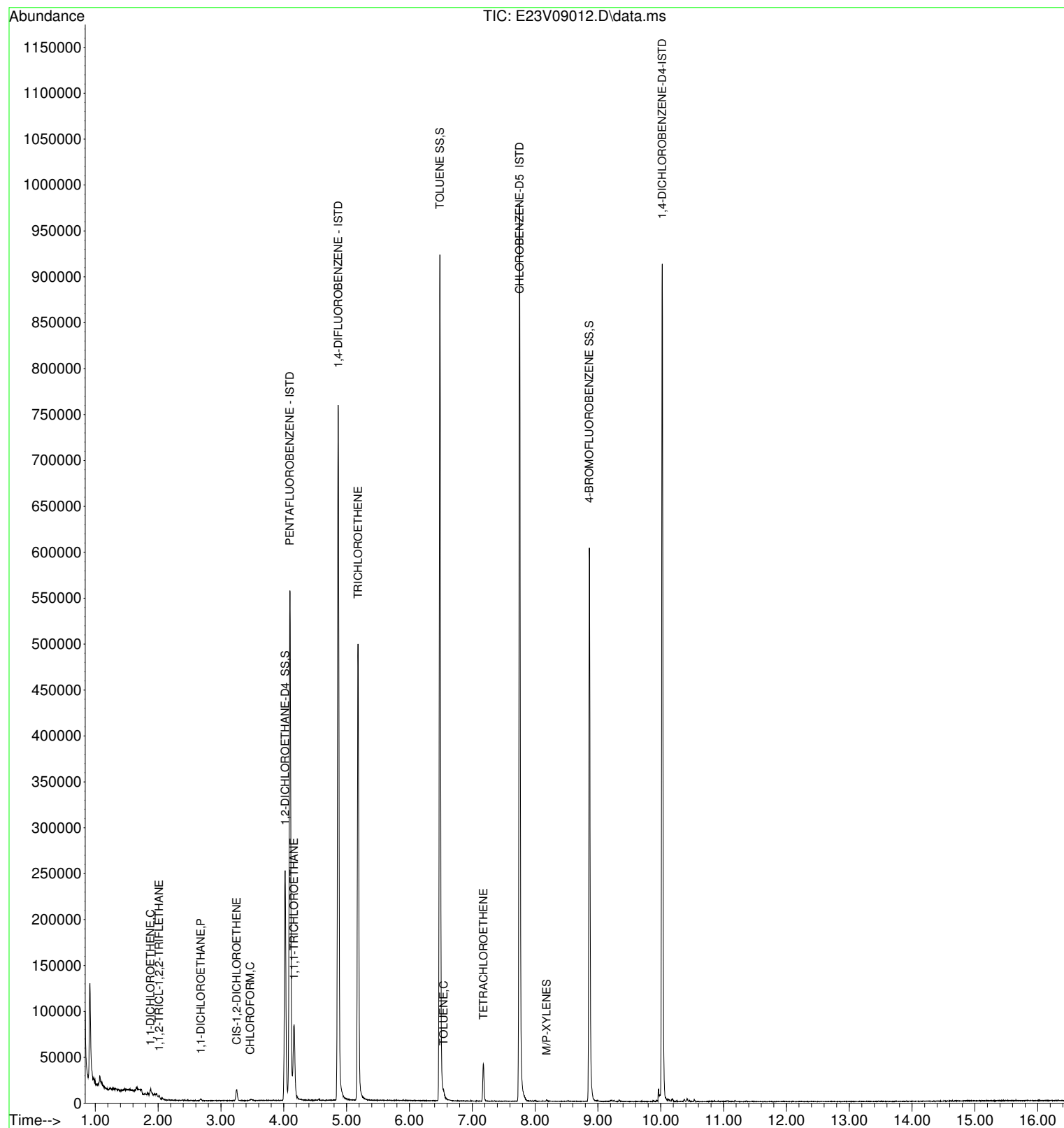
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.097	168	376141	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	559456	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	255050	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	221369	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	152536	24.47	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.88%
50) TOLUENE SS	6.484	98	524651	24.37	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.48%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	172111	24.18	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.72%
Target Compounds						
					Qvalue	
15) 1,1-DICHLOROETHENE	1.877	61	1165	0.24	UG/L #	83
16) 1,1,2-TRICL-1,2,2-TRIF...	2.016	101	1398m	0.37	UG/L	
26) 1,1-DICHLOROETHANE	2.677	63	2084	0.33	UG/L #	87
34) CIS-1,2-DICHLOROETHENE	3.249	61	6589	1.36	UG/L	97
40) CHLOROFORM	3.467	83	610	0.09	UG/L #	18
42) 1,1,1-TRICHLOROETHANE	4.164	97	46949	9.57	UG/L	93
53) TRICHLOROETHENE	5.182	95	143743	37.76	UG/L	95
62) TOLUENE	6.542	91	2452	0.16	UG/L	95
67) TETRACHLOROETHENE	7.178	166	10873	2.73	UG/L	99
76) M/P-XYLENES	8.182	91	1176	0.10	UG/L	90

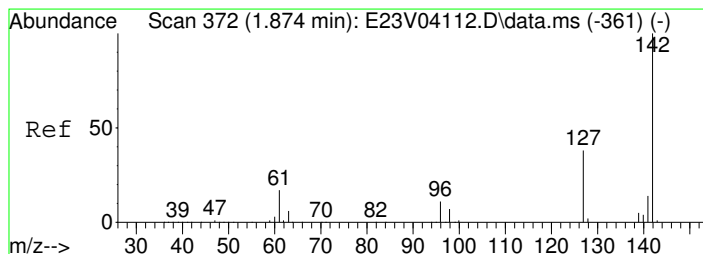
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09012.D
Acq On : 31 Mar 2023 12:42 pm
Operator :
Sample : 23C3284-02
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Inst : GCMSVOA5

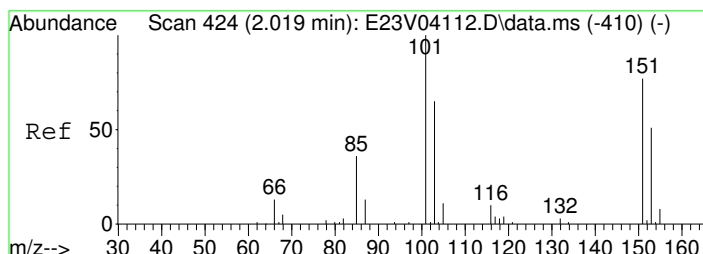
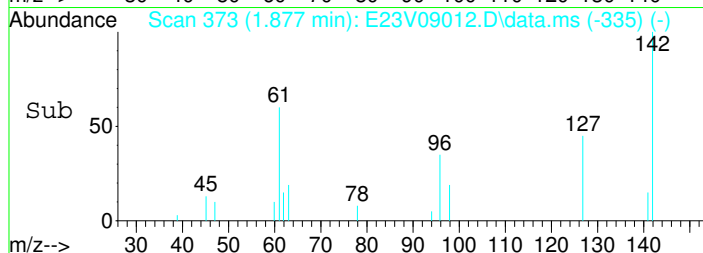
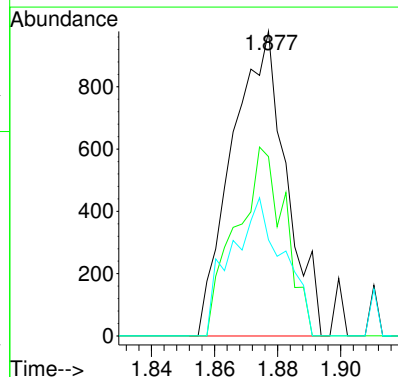
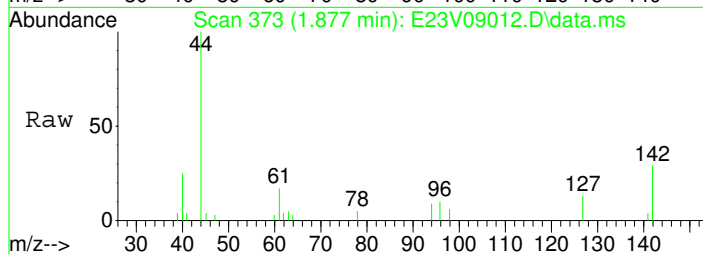
Quant Time: Apr 03 07:40:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration





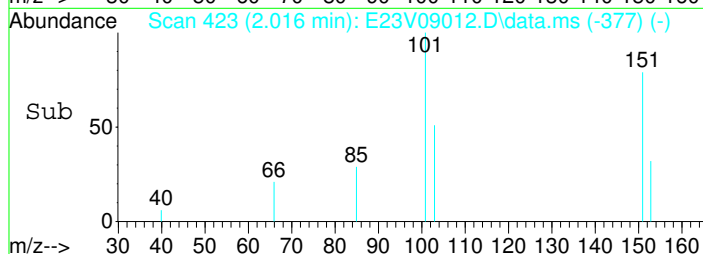
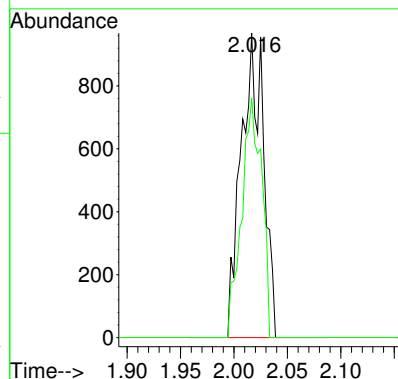
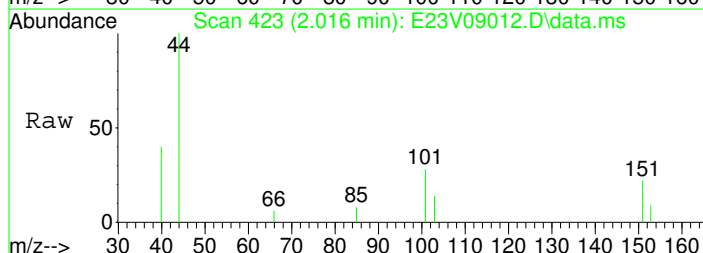
#15
1,1-DICHLOROETHENE
Concen: 0.24 UG/L
RT: 1.877 min Scan# 373
Delta R.T. 0.003 min
Lab File: E23V09012.D
Acq: 31 Mar 2023 12:42 pm

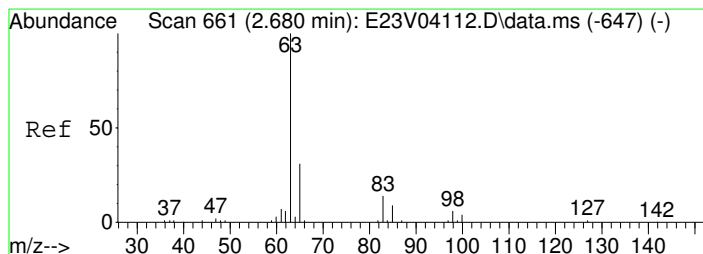
Tgt Ion	61	Resp	1165
Ion Ratio	Lower	Upper	
61	100		
96	55.8	55.8	83.8#
63	43.9	26.9	40.3#



#16
1,1,2-TRICL-1,2,2-TRIFLETHANE
Concen: 0.37 UG/L m
RT: 2.016 min Scan# 423
Delta R.T. -0.003 min
Lab File: E23V09012.D
Acq: 31 Mar 2023 12:42 pm

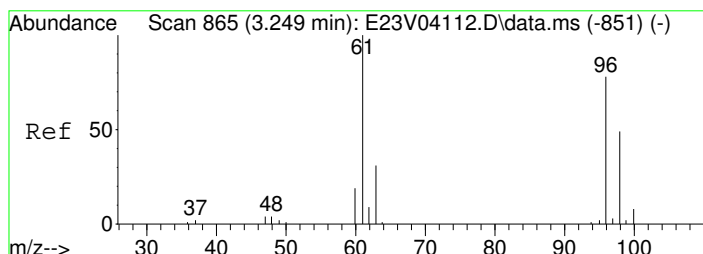
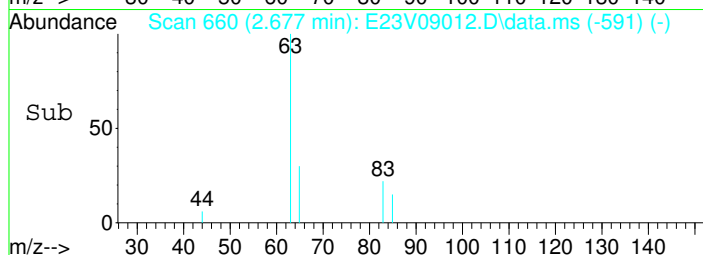
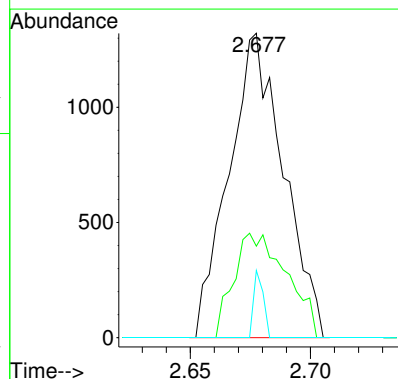
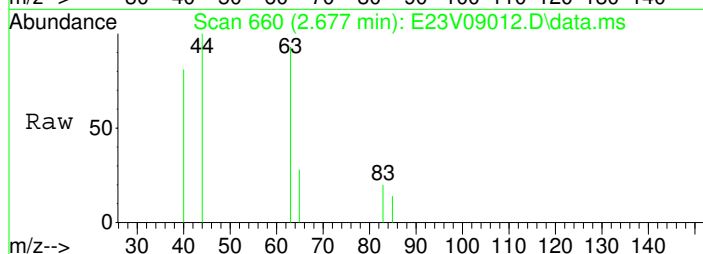
Tgt Ion	101	Resp	1398
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
101	100		
151	70.8	66.1	99.1





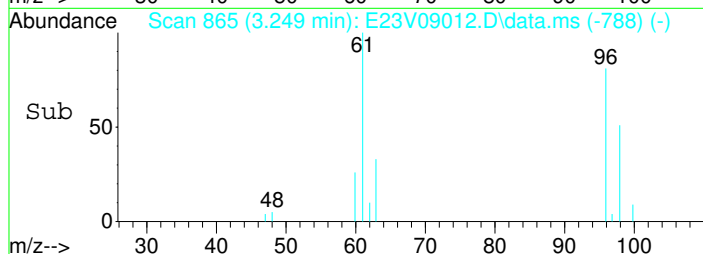
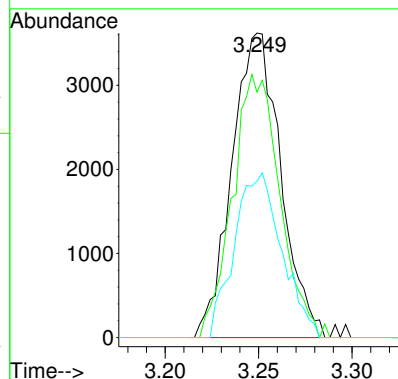
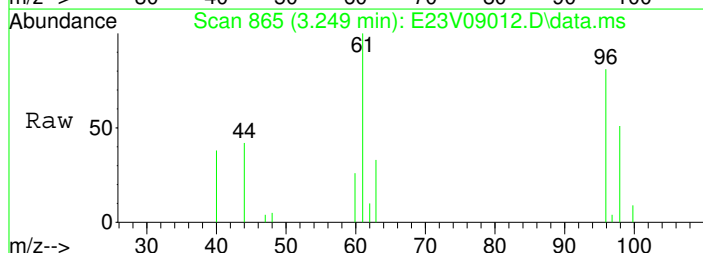
#26
1,1-DICHLOROETHANE
Concen: 0.33 UG/L
RT: 2.677 min Scan# 660
Delta R.T. -0.003 min
Lab File: E23V09012.D
Acq: 31 Mar 2023 12:42 pm

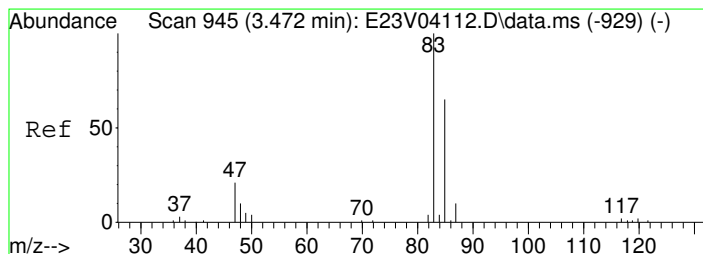
Tgt Ion:	63	Resp:	2084
Ion Ratio	Lower	Upper	
63	100		
65	33.3	25.7	38.5
83	0.0	12.0	18.0#



#34
CIS-1,2-DICHLOROETHENE
Concen: 1.36 UG/L
RT: 3.249 min Scan# 865
Delta R.T. 0.000 min
Lab File: E23V09012.D
Acq: 31 Mar 2023 12:42 pm

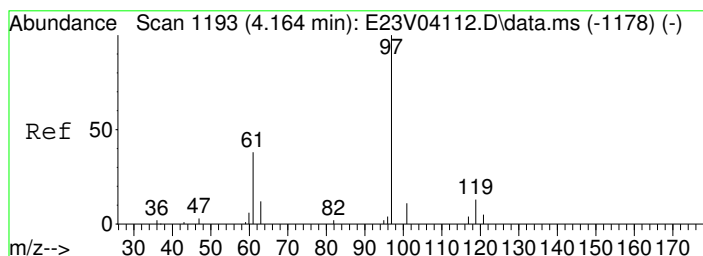
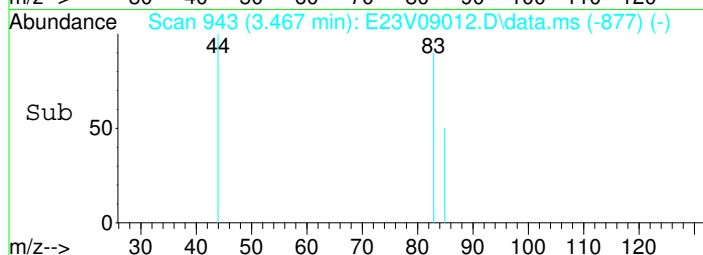
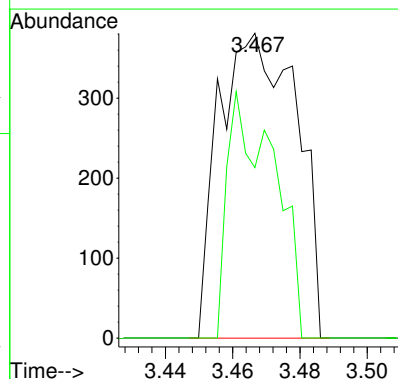
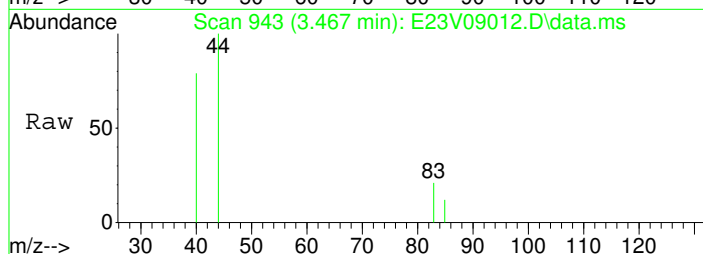
Tgt Ion:	61	Resp:	6589
Ion Ratio	Lower	Upper	
61	100		
96	83.9	68.8	103.2
98	52.4	43.9	65.9





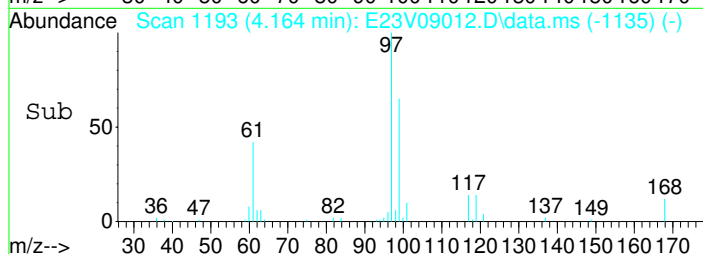
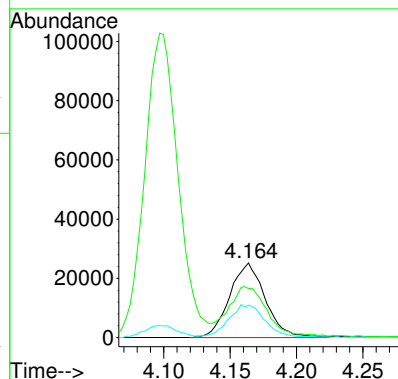
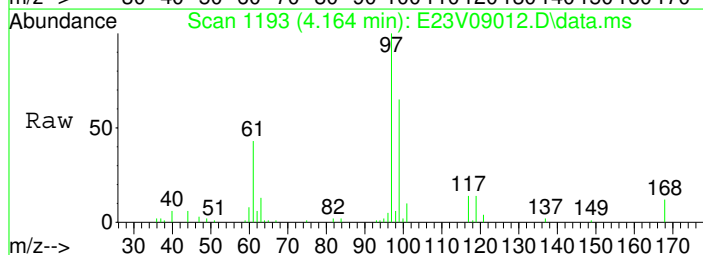
#40
CHLOROFORM
Concen: 0.09 UG/L
RT: 3.467 min Scan# 943
Delta R.T. -0.005 min
Lab File: E23V09012.D
Acq: 31 Mar 2023 12:42 pm

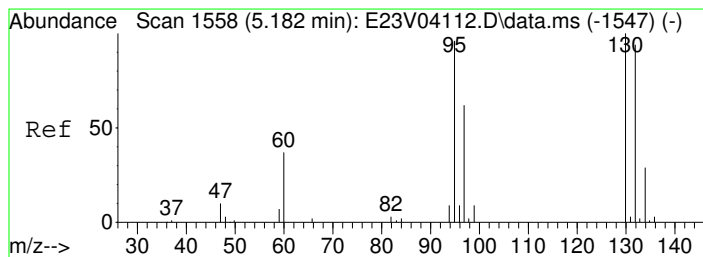
Tgt Ion: 83 Resp: 610
Ion Ratio Lower Upper
83 100
85 0.0 51.9 77.9#



#42
1,1,1-TRICHLOROETHANE
Concen: 9.57 UG/L
RT: 4.164 min Scan# 1193
Delta R.T. -0.000 min
Lab File: E23V09012.D
Acq: 31 Mar 2023 12:42 pm

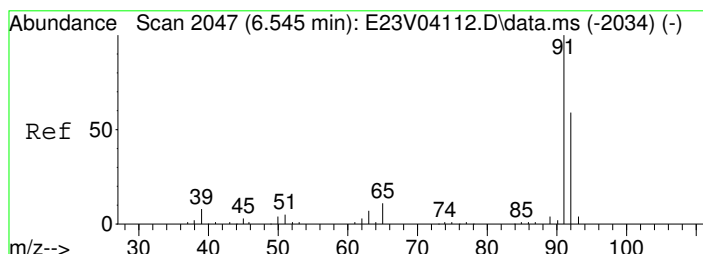
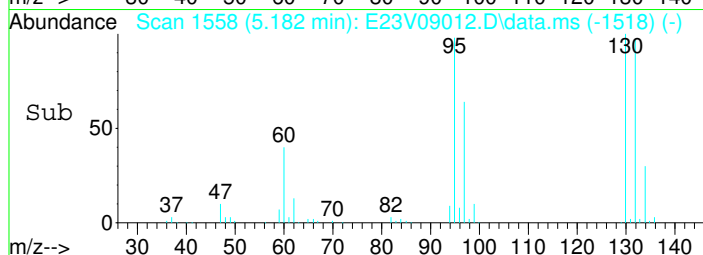
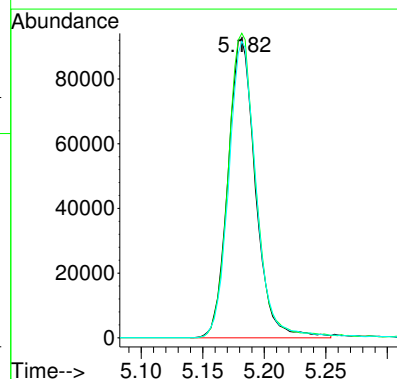
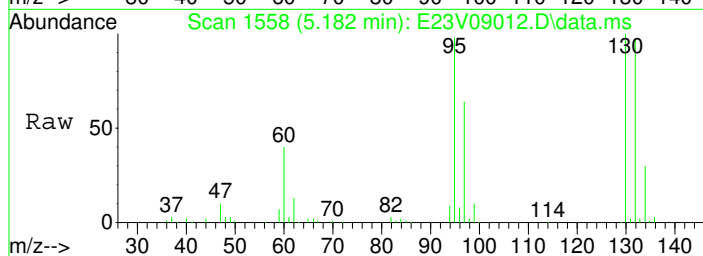
Tgt Ion: 97 Resp: 46949
Ion Ratio Lower Upper
97 100
99 72.4 51.6 77.4
61 42.5 32.7 49.1





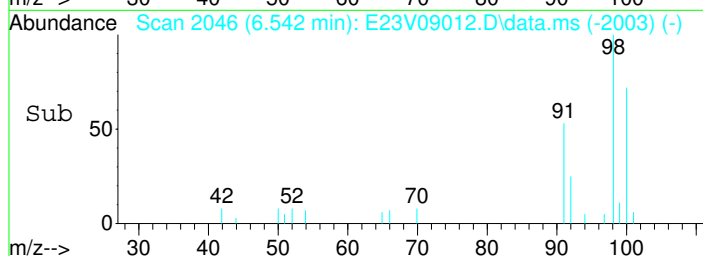
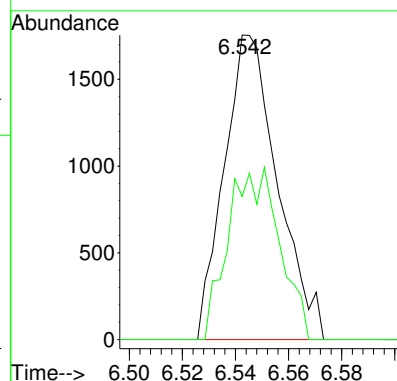
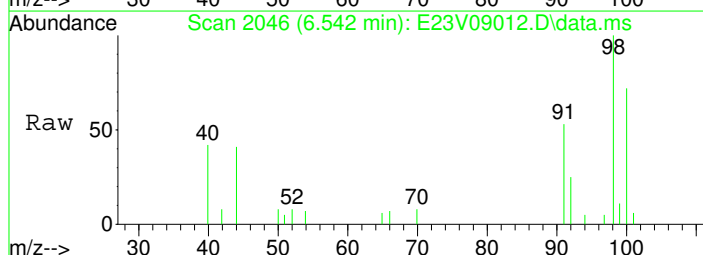
#53
 TRICHLOROETHENE
 Concen: 37.76 UG/L
 RT: 5.182 min Scan# 1558
 Delta R.T. -0.000 min
 Lab File: E23V09012.D
 Acq: 31 Mar 2023 12:42 pm

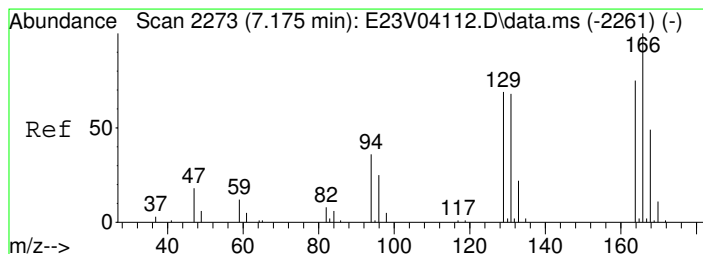
Tgt Ion	95	130	132
Resp	143743	86.1	83.0
Ion Ratio	100	102.5	99.0
Lower			
Upper		129.1	124.4



#62
 TOLUENE
 Concen: 0.16 UG/L
 RT: 6.542 min Scan# 2046
 Delta R.T. -0.003 min
 Lab File: E23V09012.D
 Acq: 31 Mar 2023 12:42 pm

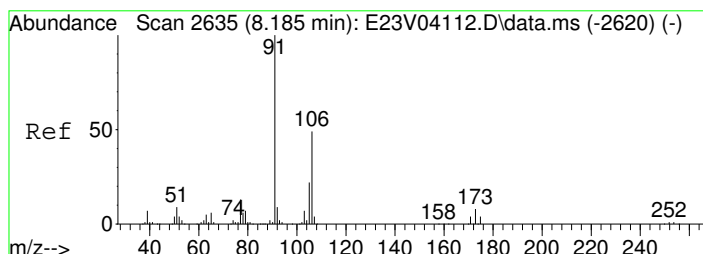
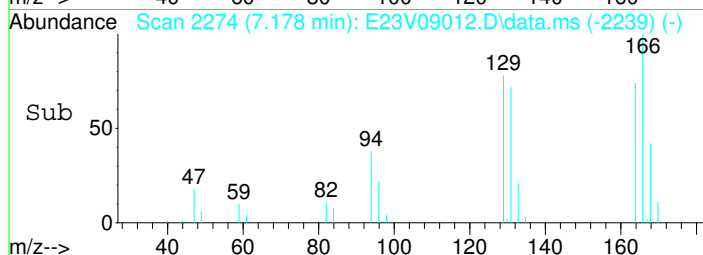
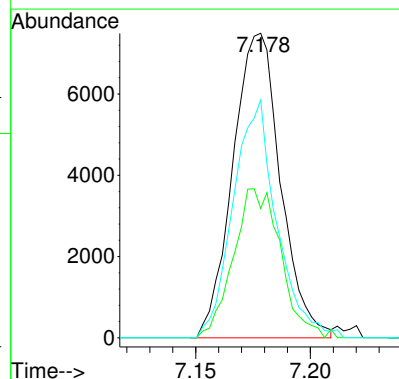
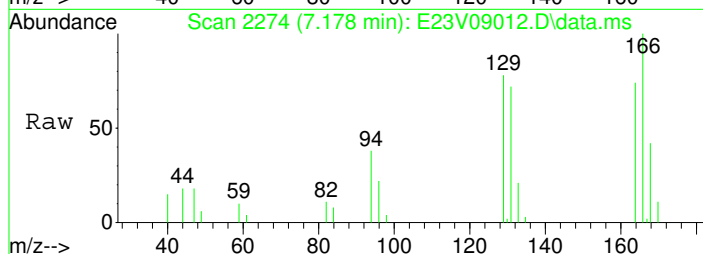
Tgt Ion	91	92
Resp	2452	46.5
Ion Ratio	100	54.1
Lower		
Upper		69.7





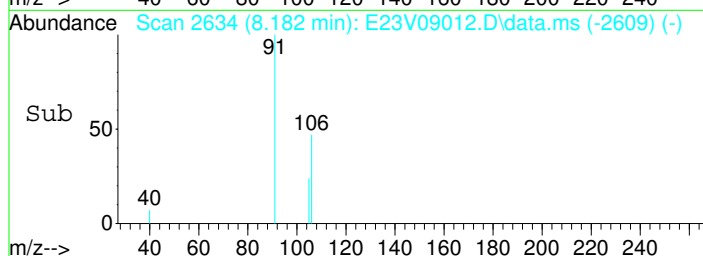
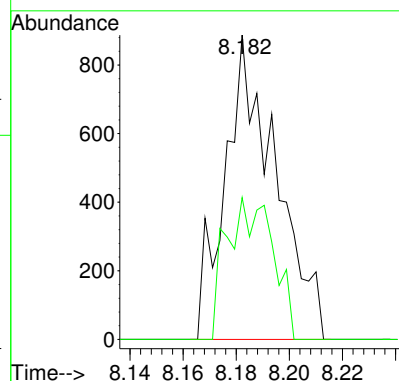
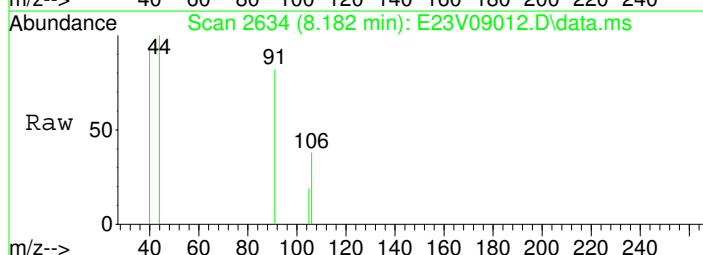
#67
TETRACHLOROETHENE
Concen: 2.73 UG/L
RT: 7.178 min Scan# 2274
Delta R.T. 0.003 min
Lab File: E23V09012.D
Acq: 31 Mar 2023 12:42 pm

Tgt Ion	166	Resp	10873
Ion Ratio	100	Lower	Upper
166	100		
168	48.5	38.2	57.4
129	71.0	56.6	84.8



#76
M/P-XYLENES
Concen: 0.10 UG/L
RT: 8.182 min Scan# 2634
Delta R.T. -0.003 min
Lab File: E23V09012.D
Acq: 31 Mar 2023 12:42 pm

Tgt Ion	91	Resp	1176
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
91	100		
106	42.8	39.5	59.3

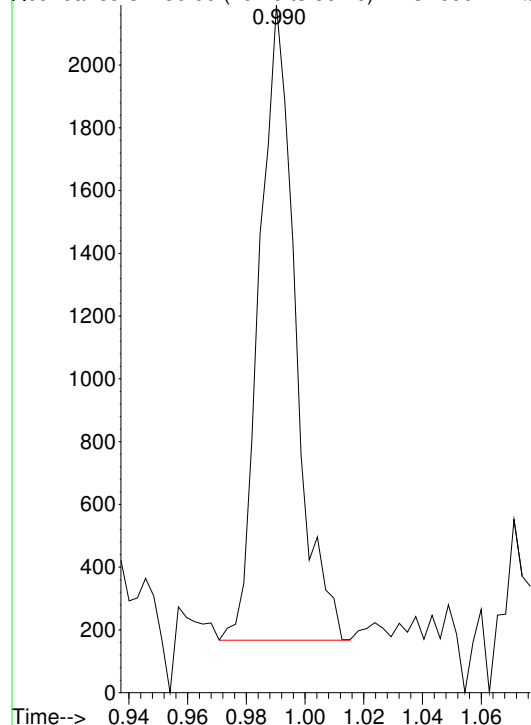


Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09012.D
Acq On : 31 Mar 2023 12:42 pm
Operator :
Sample : 23C3284-02
Misc : 1

Quant Time : Mon Apr 03 07:40:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration
CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09012.D



Original Int. Results

RT : 0.99
Area : 1718
Amount: 0.38816

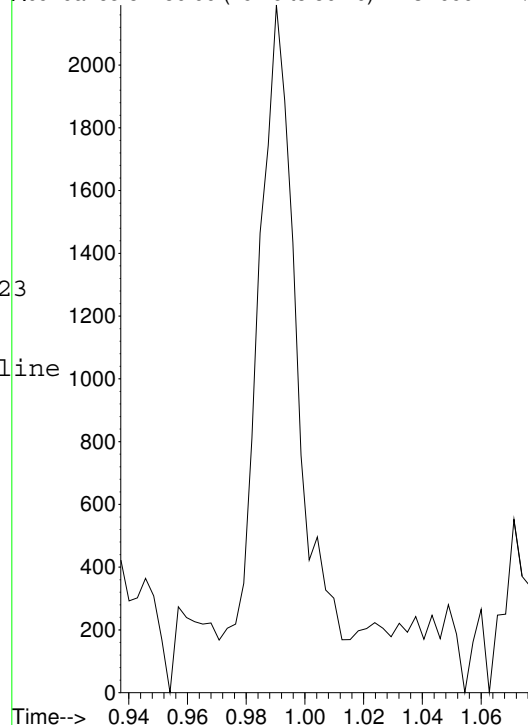
Manual Int. Results

Mon Apr 03 07:40:01 2023

MIuser: eeh
Reason: Incorrect Baseline
RT : 0.00
Area : 0
Amount: 0

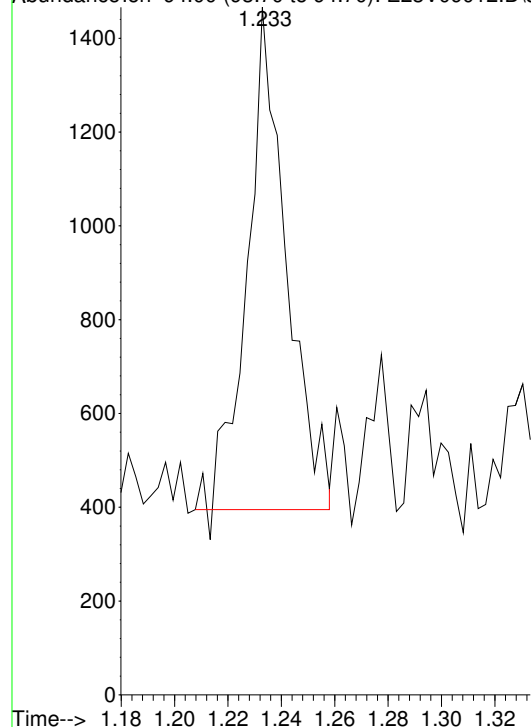
Manual Integration
CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09012.D



Original Integration
BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09012.D



Original Int. Results

RT : 1.23
Area : 1101
Amount: 0.439154

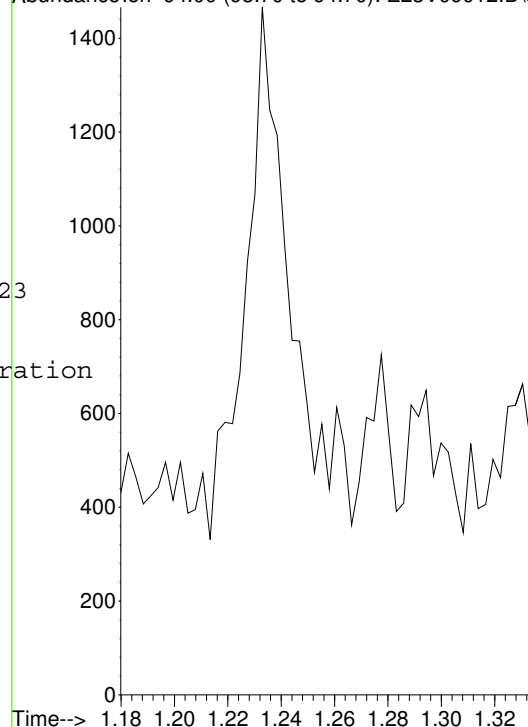
Manual Int. Results

Mon Apr 03 07:40:03 2023

MIuser: eeh
Reason: Incorret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration
BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09012.D



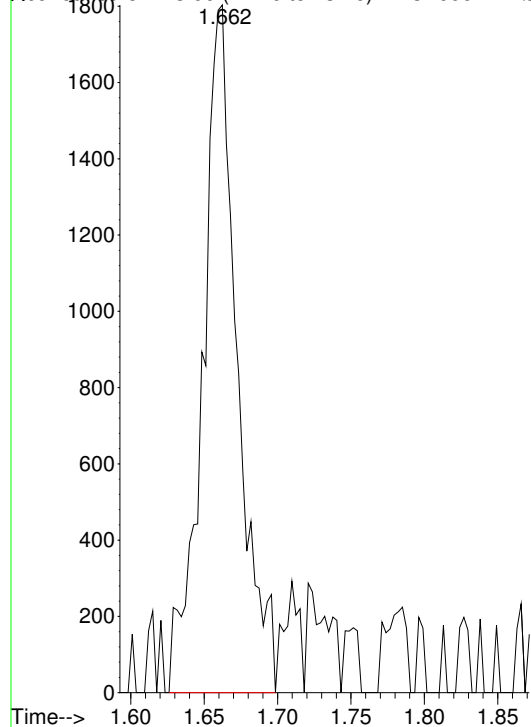
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09012.D
Acq On : 31 Mar 2023 12:42 pm
Operator :
Sample : 23C3284-02
Misc : 1

Quant Time : Mon Apr 03 07:40:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

ACETONE

Abundance on 43.00 (42.70 to 43.70): E23V09012.D



Original Int. Results

RT : 1.66
Area : 2964
Amount: 2.8167

Manual Int. Results

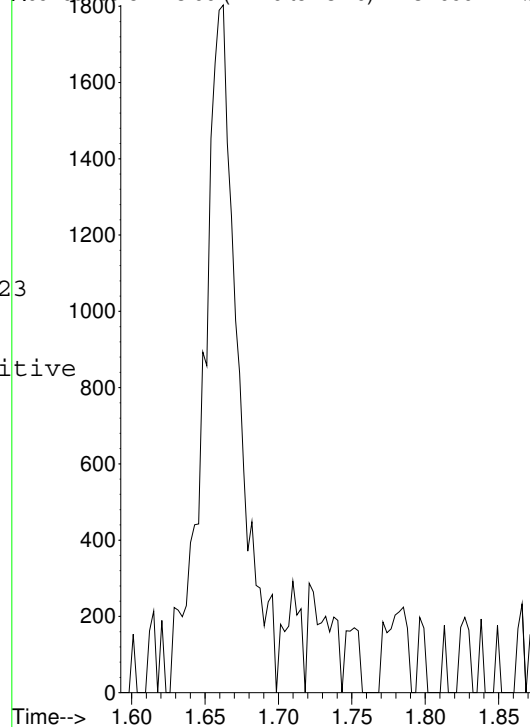
Mon Apr 03 07:40:06 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

ACETONE

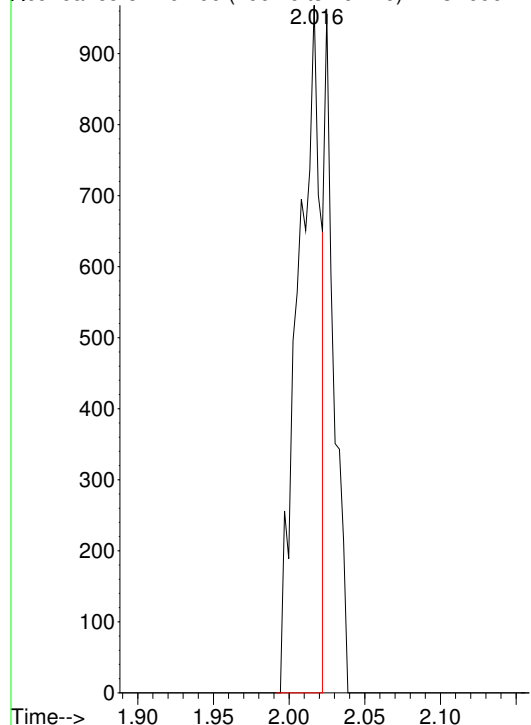
Abundance on 43.00 (42.70 to 43.70): E23V09012.D



Original Integration

1,1,2-TRICL-1,2,2-TRIFLETHANE

Abundance on 101.00 (100.70 to 101.70): E23V09012.D



Original Int. Results

RT : 2.02
Area : 988
Amount: 0.258221

Manual Int. Results

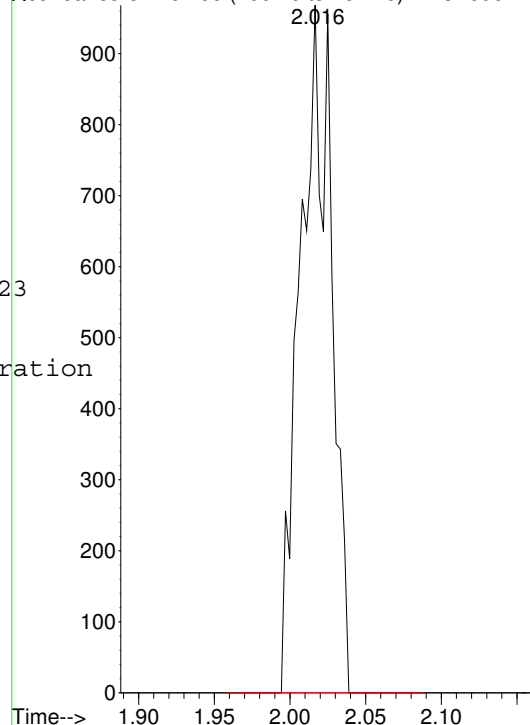
Mon Apr 03 07:40:09 2023

MIuser: eeh
Reason: Incoret Integration
RT : 2.02
Area : 1398
Amount: 0.365377

Manual Integration

1,1,2-TRICL-1,2,2-TRIFLETHANE

Abundance on 101.00 (100.70 to 101.70): E23V09012.D



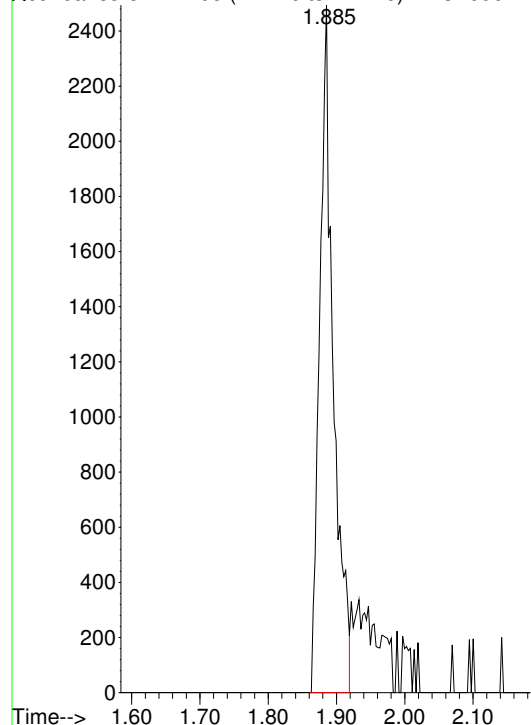
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09012.D
Acq On : 31 Mar 2023 12:42 pm
Operator :
Sample : 23C3284-02
Misc : 1

Quant Time : Mon Apr 03 07:40:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09012.D



Original Int. Results

RT : 1.89
Area : 3456
Amount: 0.726643

Manual Int. Results

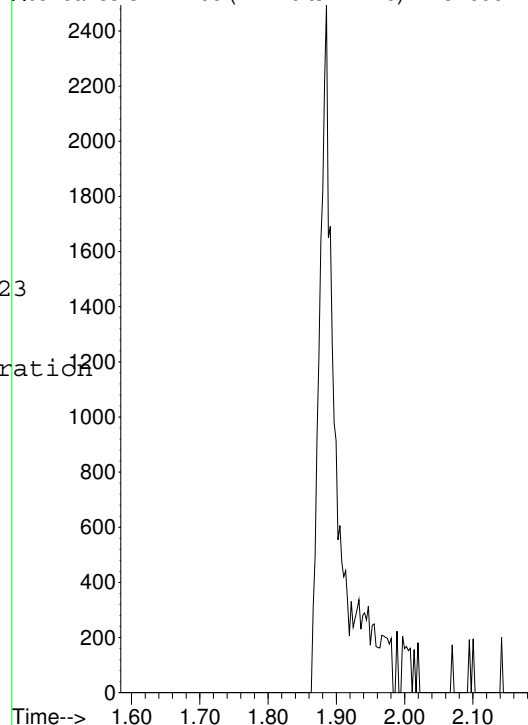
Mon Apr 03 07:40:11 2023

MIuser: eeh
Reason: Incoret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

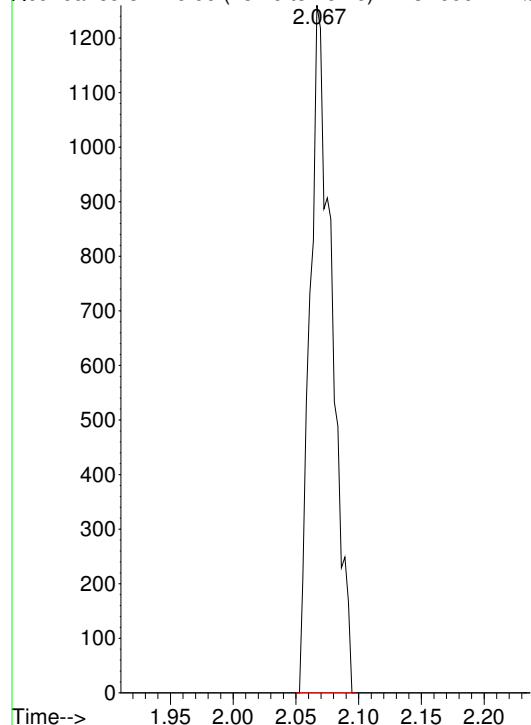
Abundance on 142.00 (141.70 to 142.70): E23V09012.D



Original Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09012.D



Original Int. Results

RT : 2.07
Area : 1525
Amount: 0.145277

Manual Int. Results

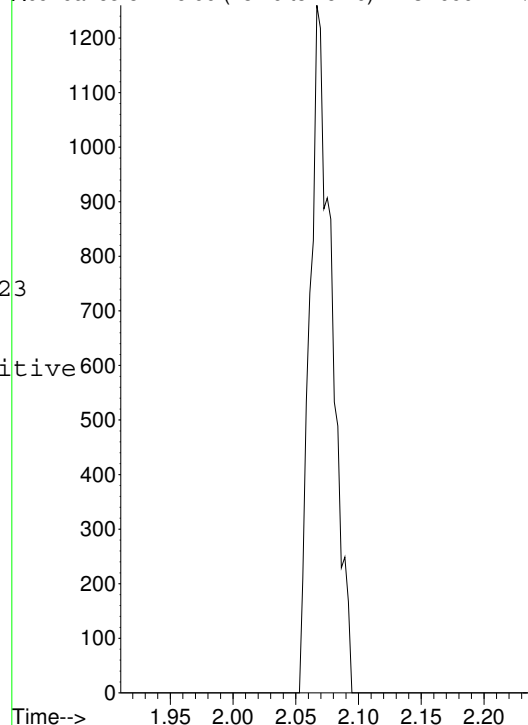
Mon Apr 03 07:40:14 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09012.D



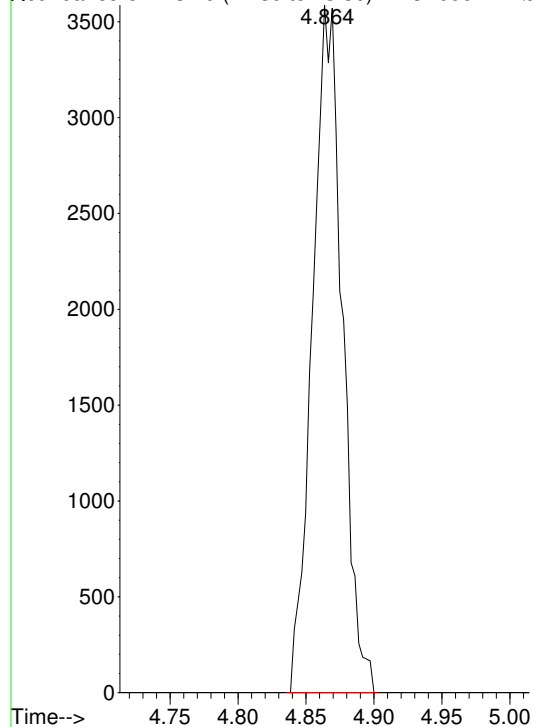
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09012.D
Acq On : 31 Mar 2023 12:42 pm
Operator :
Sample : 23C3284-02
Misc : 1

Quant Time : Mon Apr 03 07:40:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09012.D



Original Int. Results

RT : 4.86
Area : 5483
Amount: 0.61359

Manual Int. Results

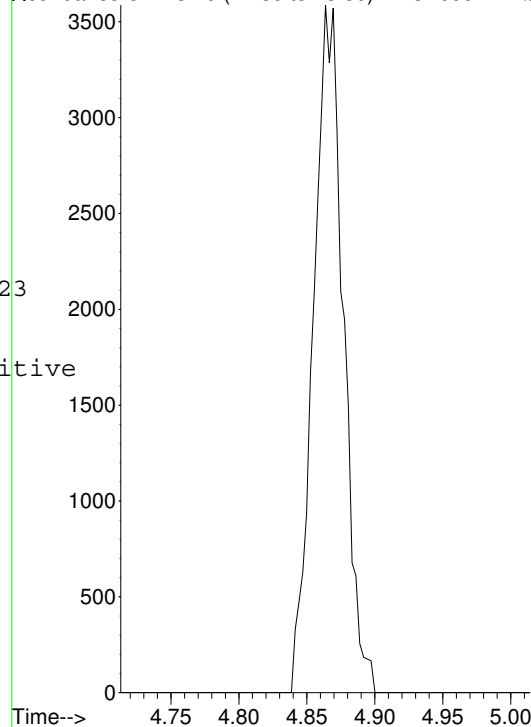
Mon Apr 03 07:40:23 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

T-AMYLMETHYL ETHER

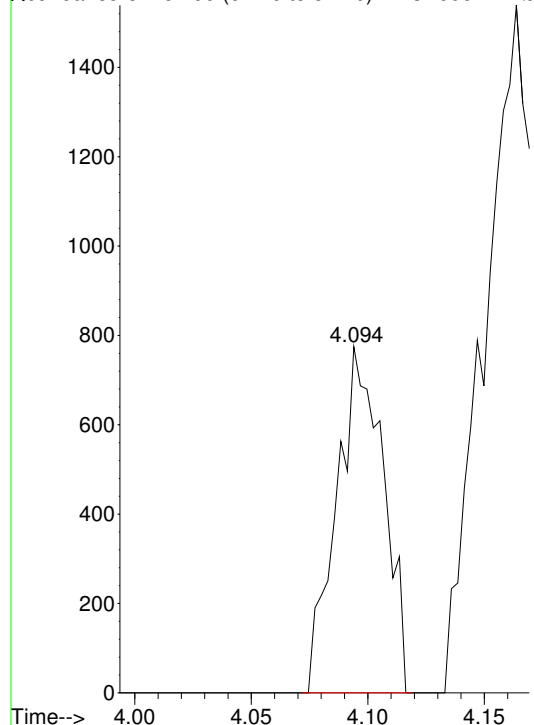
Abundance on 73.10 (72.80 to 73.80): E23V09012.D



Original Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09012.D



Original Int. Results

RT : 4.09
Area : 1080
Amount: 0.24279

Manual Int. Results

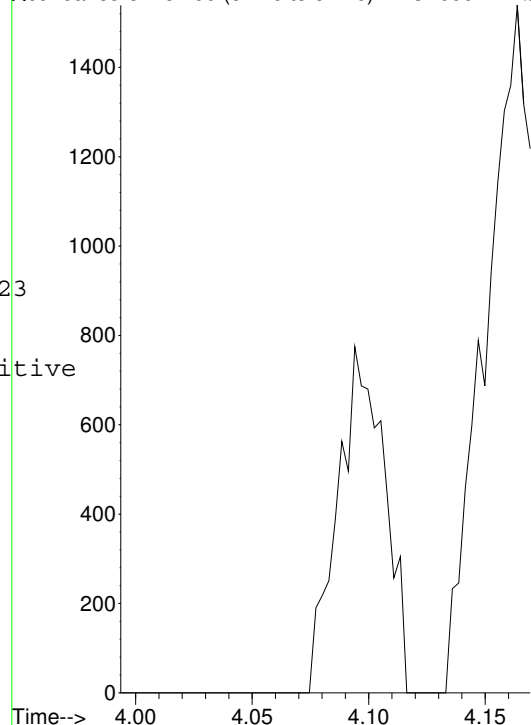
Mon Apr 03 07:40:25 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09012.D



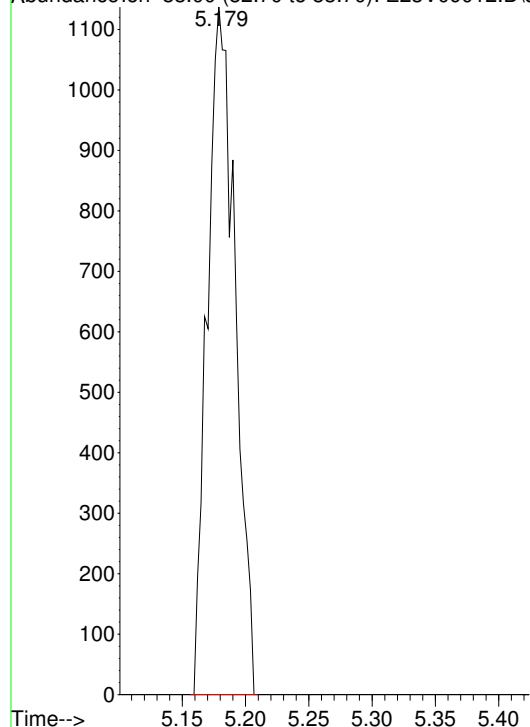
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09012.D
Acq On : 31 Mar 2023 12:42 pm
Operator :
Sample : 23C3284-02
Misc : 1

Quant Time : Mon Apr 03 07:40:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

BROMODICHLOROMETHANE

Abundance on 83.00 (82.70 to 83.70): E23V09012.D



Original Int. Results

RT : 5.18
Area : 1732
Amount: 0.402701

Manual Int. Results

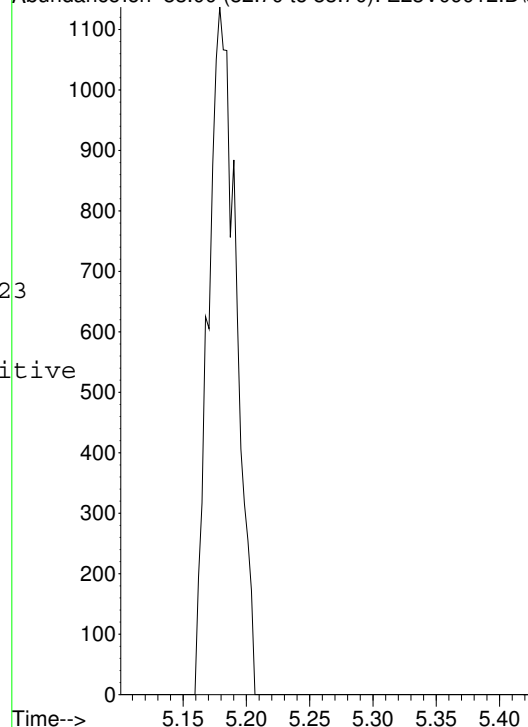
Mon Apr 03 07:40:28 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BROMODICHLOROMETHANE

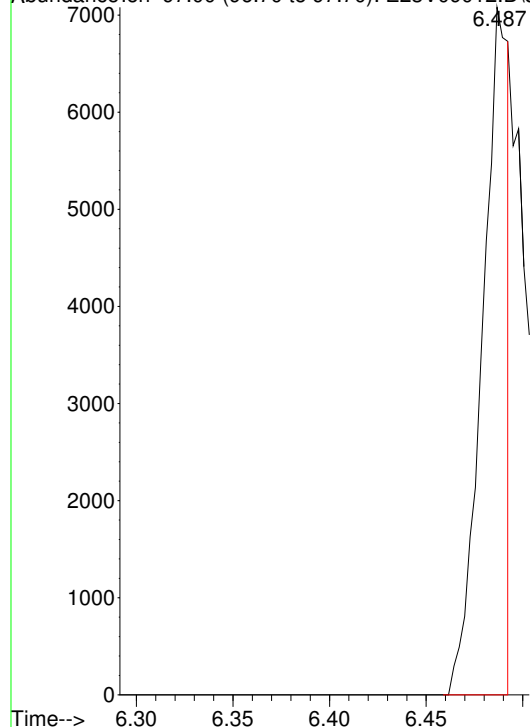
Abundance on 83.00 (82.70 to 83.70): E23V09012.D



Original Integration

1,1,2-TRICHLOROETHANE

Abundance on 97.00 (96.70 to 97.70): E23V09012.D



Original Int. Results

RT : 6.49
Area : 6611
Amount: 2.16142

Manual Int. Results

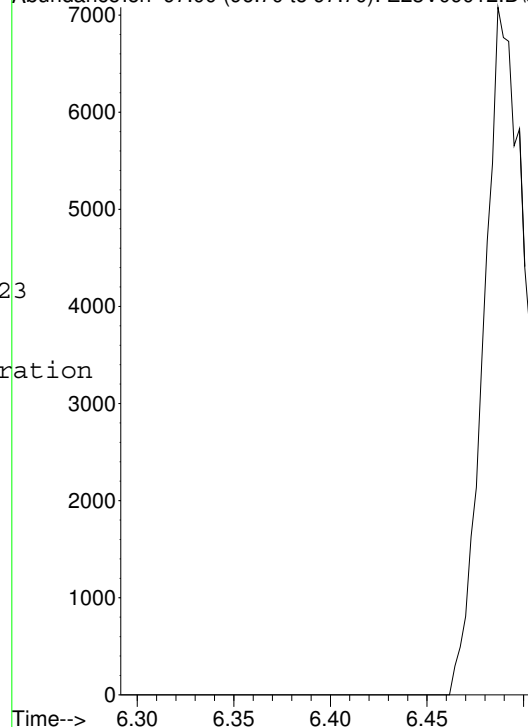
Mon Apr 03 07:40:33 2023

MIuser: eeh
Reason: Incoret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,1,2-TRICHLOROETHANE

Abundance on 97.00 (96.70 to 97.70): E23V09012.D



1 - FORM I

ANALYSIS DATA SHEET

96

MW-3S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-03
		File ID:	E23V09013.D
Sampled:	03/28/23 11:40	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 13:09
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	5.4	2.0	50	J
107-13-1	Acrylonitrile		0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.13	0.50	
71-43-2	Benzene		0.18	1.0	
108-86-1	Bromobenzene		0.15	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	V-05
78-93-3	2-Butanone (MEK)		1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)		4.3	20	
104-51-8	n-Butylbenzene		0.15	1.0	
135-98-8	sec-Butylbenzene		0.13	1.0	
98-06-6	tert-Butylbenzene		0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.15	0.50	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
95-49-8	2-Chlorotoluene		0.15	1.0	
106-43-4	4-Chlorotoluene		0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
74-95-3	Dibromomethane		0.32	1.0	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

97

MW-3S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-03
		File ID:	E23V09013.D
Sampled:	03/28/23 11:40	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 13:09
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
142-28-9	1,3-Dichloropropane		0.12	0.50	
594-20-7	2,2-Dichloropropane		0.35	1.0	
563-58-6	1,1-Dichloropropene		0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
60-29-7	Diethyl Ether		0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)		0.20	0.50	
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
87-68-3	Hexachlorobutadiene		0.47	0.60	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.13	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
91-20-3	Naphthalene		0.38	2.0	
103-65-1	n-Propylbenzene		0.12	1.0	
100-42-5	Styrene		0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane		0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

98

MW-3S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-03
		File ID:	E23V09013.D
Sampled:	03/28/23 11:40	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 13:09
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
109-99-9	Tetrahydrofuran		0.49	10	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene		0.21	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
96-18-4	1,2,3-Trichloropropane		0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.15	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
108383/106423	m+p Xylene		0.49	2.0	
95-47-6	o-Xylene		0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09013.D
 Acq On : 31 Mar 2023 1:09 pm
 Operator :
 Sample : 23C3284-03
 Misc : 1
 ALS Vial : 7 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 07:41:13 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

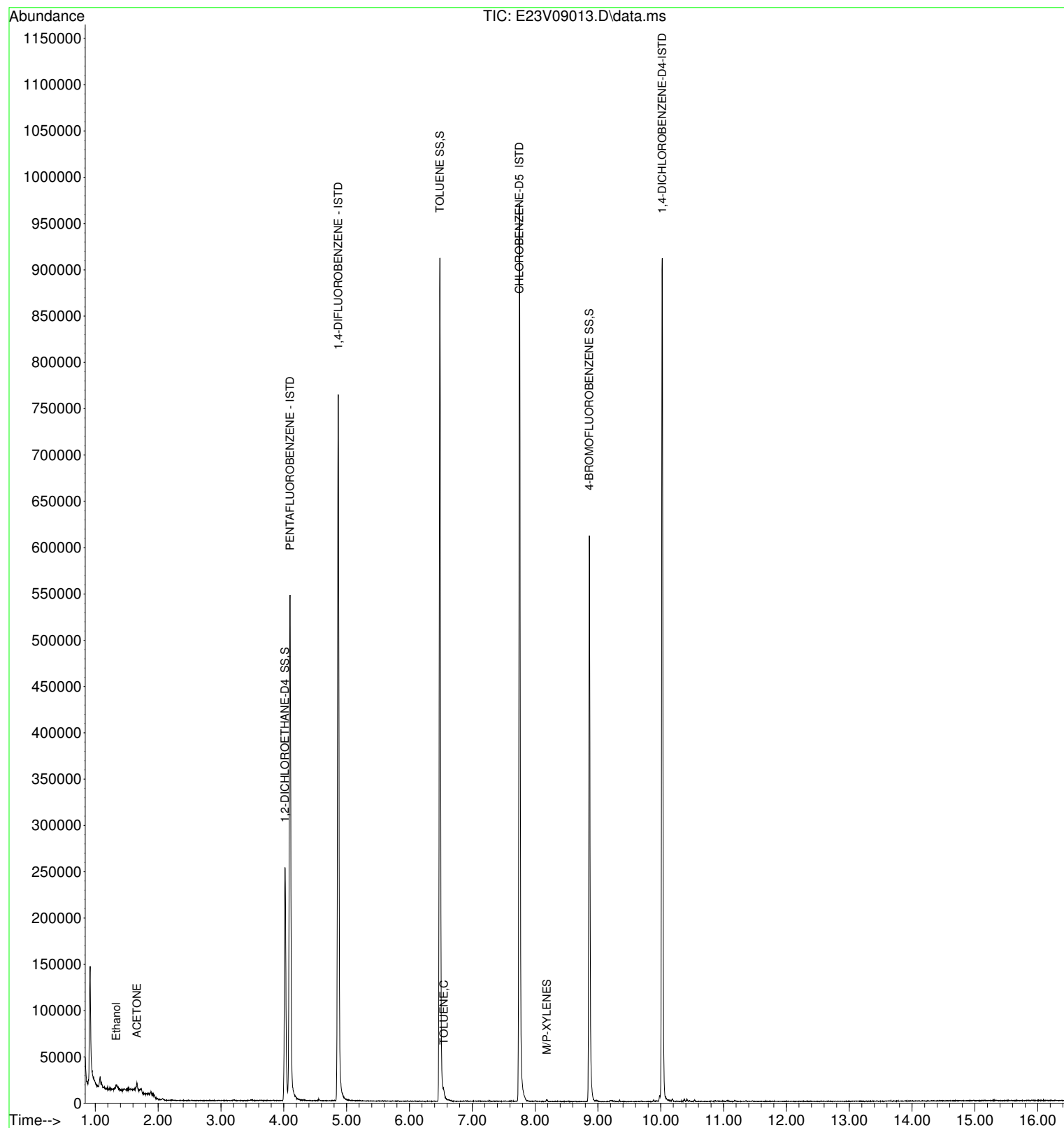
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	368355	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	562277	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.750	82	261384	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	221249	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.019	65	154558	25.32	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.28%
50) TOLUENE SS	6.484	98	529680	24.48	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.92%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	174663	23.94	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.76%
Target Compounds						
9) Ethanol	1.333	45	4415	86.32	UG/L #	75
14) ACETONE	1.662	43	5612	5.45	UG/L	99
62) TOLUENE	6.545	91	2788	0.18	UG/L	96
76) M/P-XYLENES	8.185	91	1564	0.13	UG/L #	28

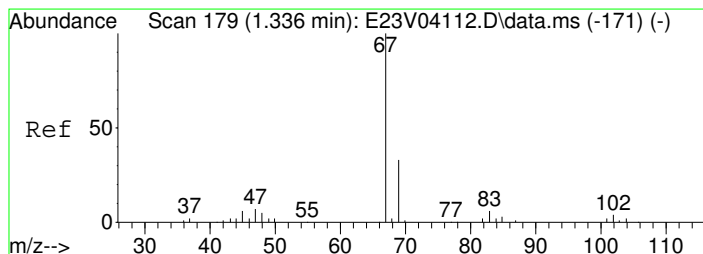
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09013.D
Acq On : 31 Mar 2023 1:09 pm
Operator :
Sample : 23C3284-03
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Inst : GCMSVOA5

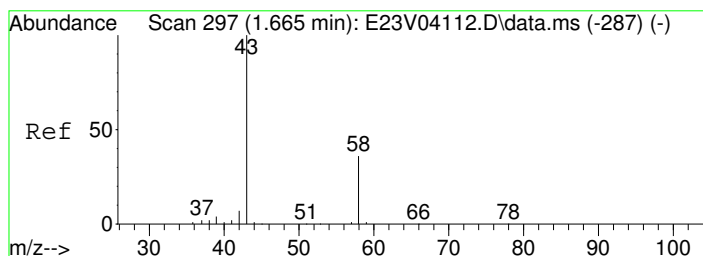
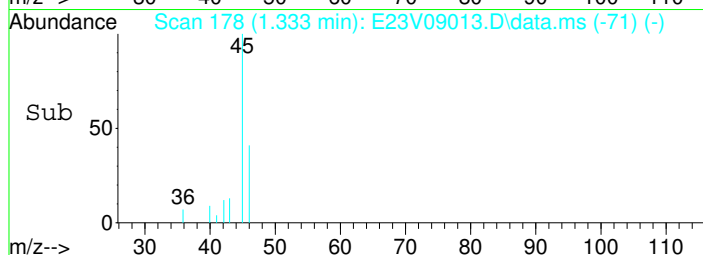
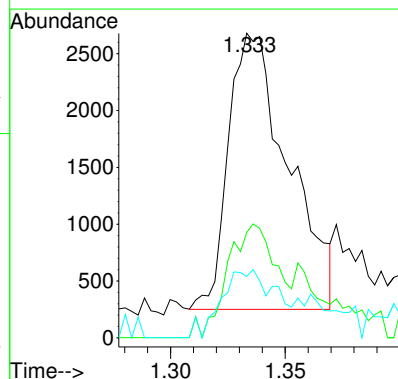
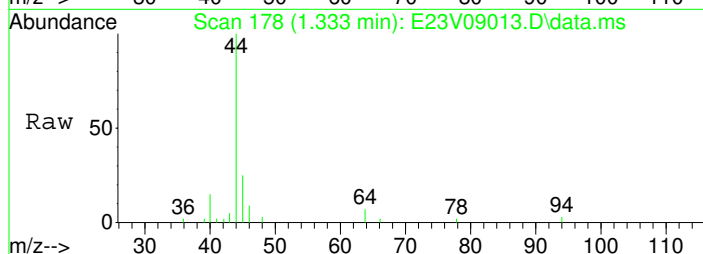
Quant Time: Apr 03 07:41:13 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration





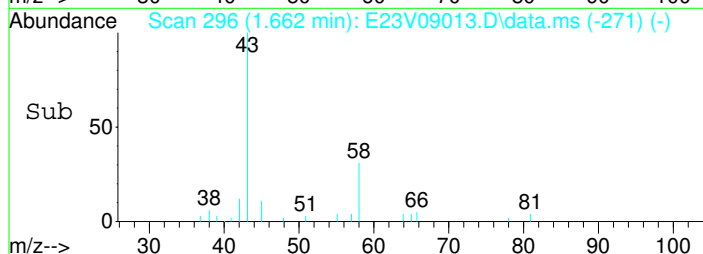
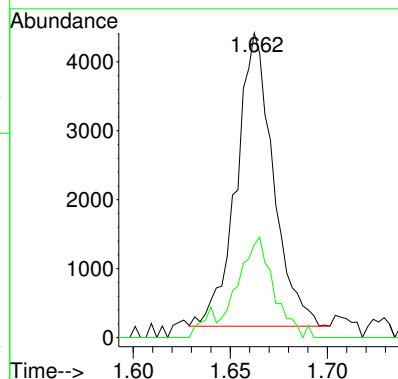
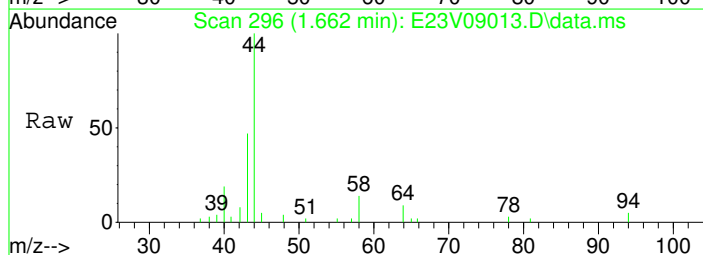
#9
Ethanol
Concen: 86.32 UG/L
RT: 1.333 min Scan# 178
Delta R.T. -0.003 min
Lab File: E23V09013.D
Acq: 31 Mar 2023 1:09 pm

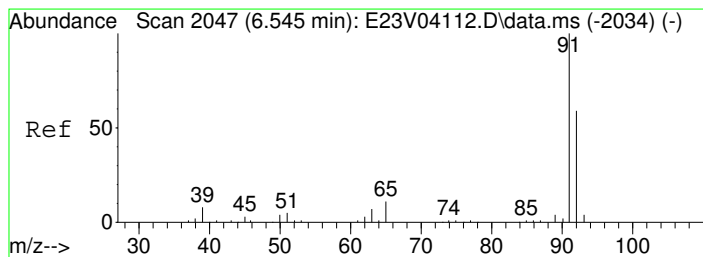
Tgt Ion	45	Resp	4415
Ion Ratio	Lower	Upper	
45	100		
46	34.5	2.0	3.0#
43	22.6	27.0	40.6#



#14
ACETONE
Concen: 5.45 UG/L
RT: 1.662 min Scan# 296
Delta R.T. -0.003 min
Lab File: E23V09013.D
Acq: 31 Mar 2023 1:09 pm

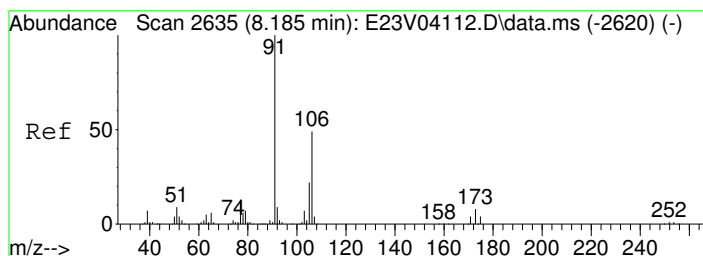
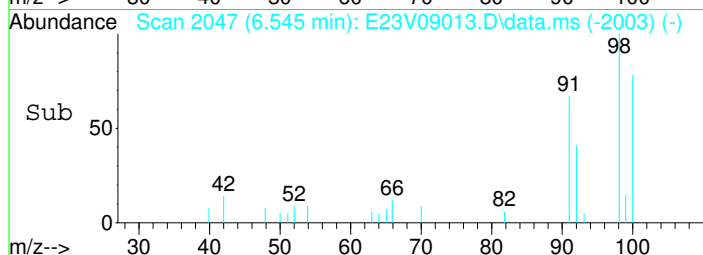
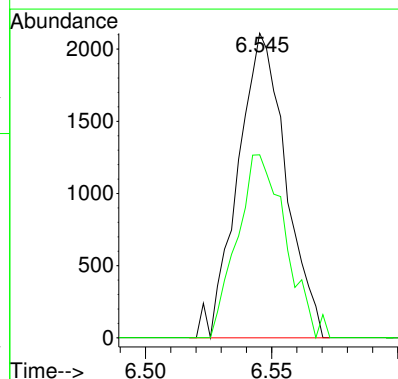
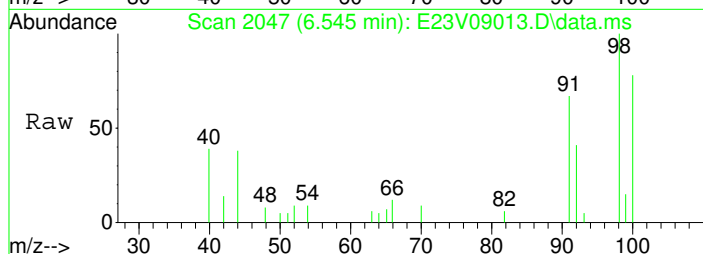
Tgt Ion	43	Resp	5612
Ion Ratio	Lower	Upper	
43	100		
58	33.0	25.9	38.9





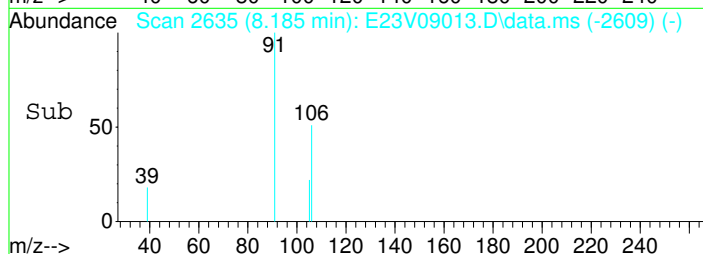
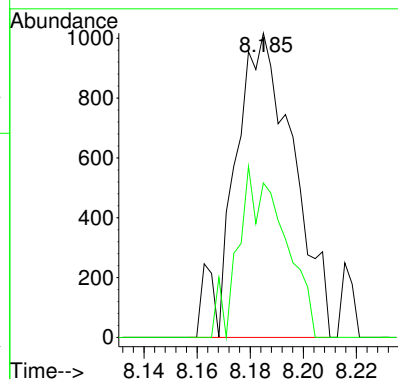
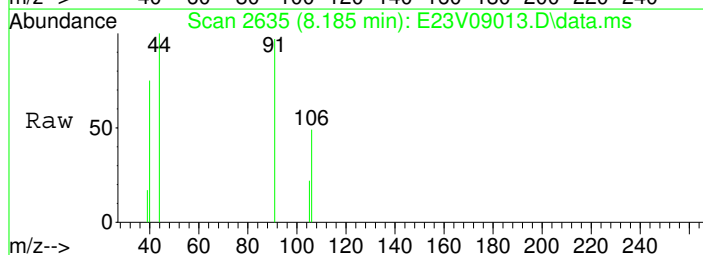
#62
TOLUENE
Concen: 0.18 UG/L
RT: 6.545 min Scan# 2047
Delta R.T. 0.000 min
Lab File: E23V09013.D
Acq: 31 Mar 2023 1:09 pm

Tgt Ion	91	Resp	2788
Ion Ratio	Lower	Upper	
91	100		
92	60.7	46.5	69.7



#76
M/P-XYLENES
Concen: 0.13 UG/L
RT: 8.185 min Scan# 2635
Delta R.T. -0.000 min
Lab File: E23V09013.D
Acq: 31 Mar 2023 1:09 pm

Tgt Ion	91	Resp	1564
Ion Ratio	Lower	Upper	
91	100		
106	0.0	39.5	59.3#



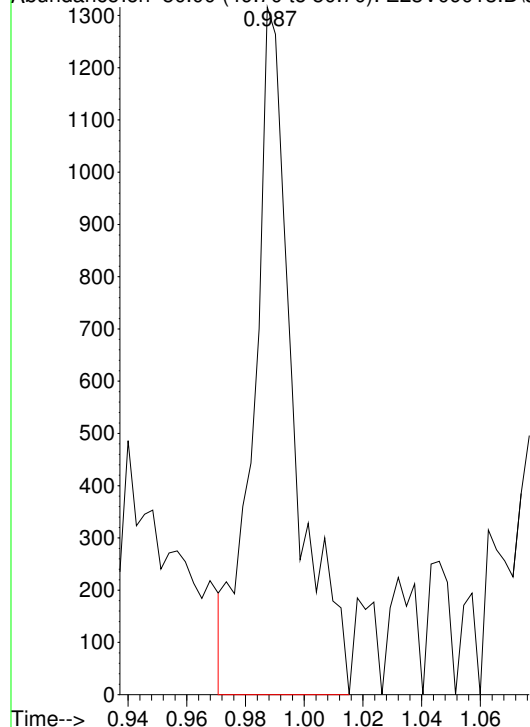
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09013.D
Acq On : 31 Mar 2023 1:09 pm
Operator :
Sample : 23C3284-03
Misc : 1

Quant Time : Mon Apr 03 07:41:13 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09013.D



Original Int. Results

RT : 0.99
Area : 1244
Amount: 0.287006

Manual Int. Results

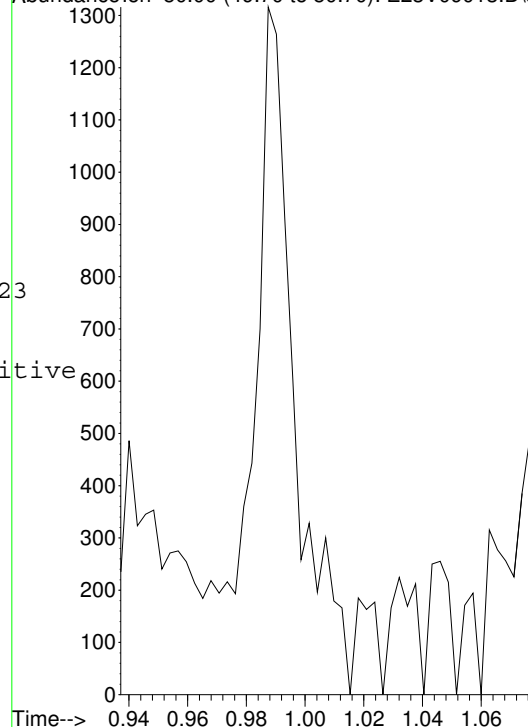
Mon Apr 03 07:40:49 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CHLOROMETHANE

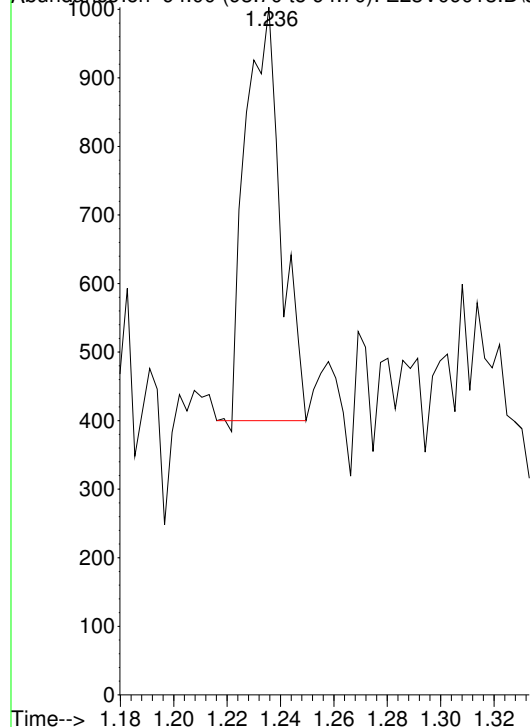
Abundance on 50.00 (49.70 to 50.70): E23V09013.D



Original Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09013.D



Original Int. Results

RT : 1.24
Area : 552
Amount: 0.224829

Manual Int. Results

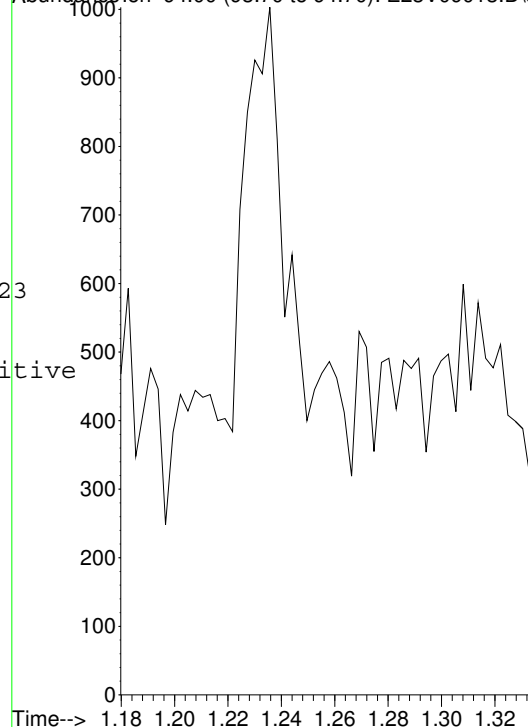
Mon Apr 03 07:40:50 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09013.D



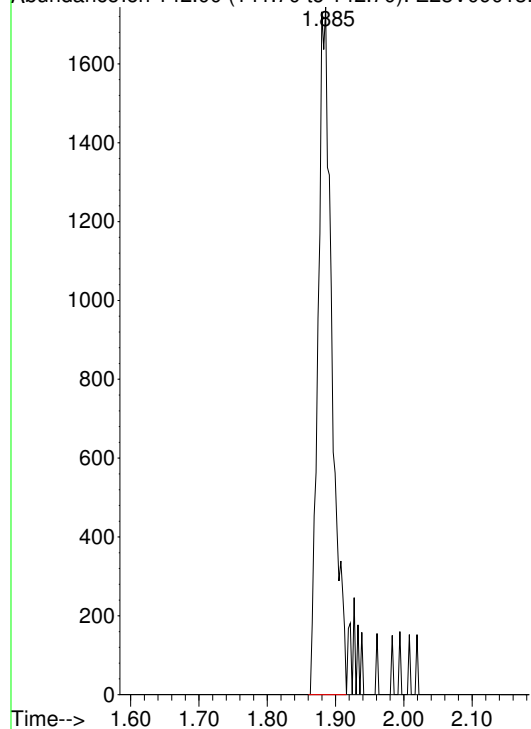
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09013.D
Acq On : 31 Mar 2023 1:09 pm
Operator :
Sample : 23C3284-03
Misc : 1

Quant Time : Mon Apr 03 07:41:13 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09013.D



Original Int. Results

RT : 1.89
Area : 2471
Amount: 0.530523

Manual Int. Results

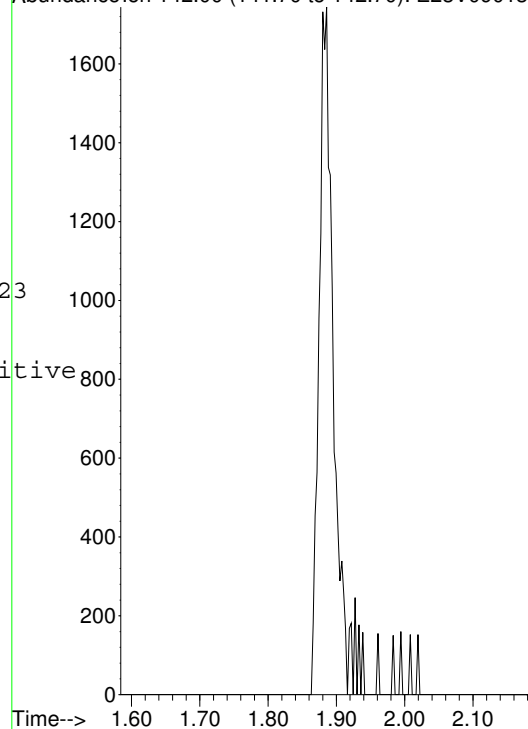
Mon Apr 03 07:40:56 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

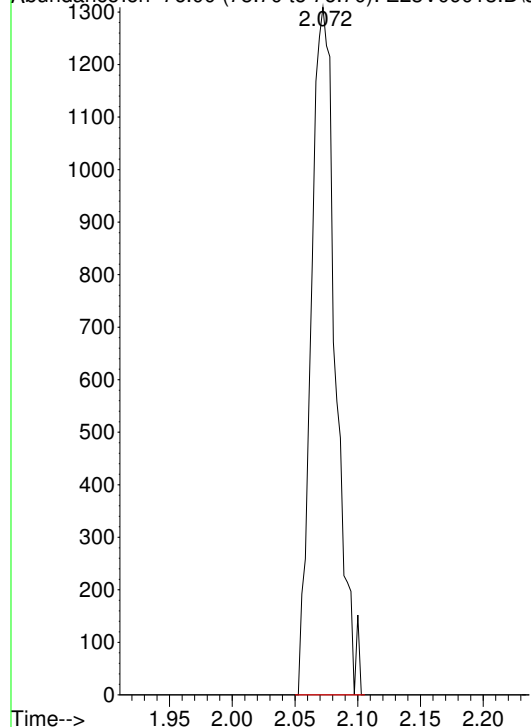
Abundance on 142.00 (141.70 to 142.70): E23V09013.D



Original Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09013.D



Original Int. Results

RT : 2.07
Area : 1761
Amount: 0.171305

Manual Int. Results

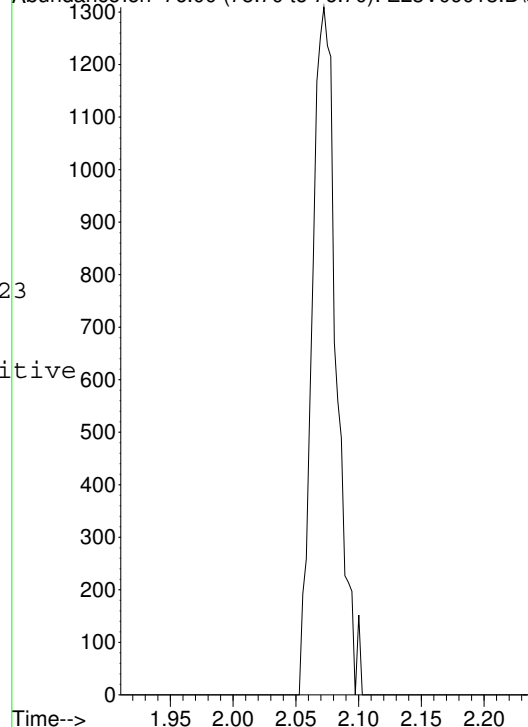
Mon Apr 03 07:40:58 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09013.D



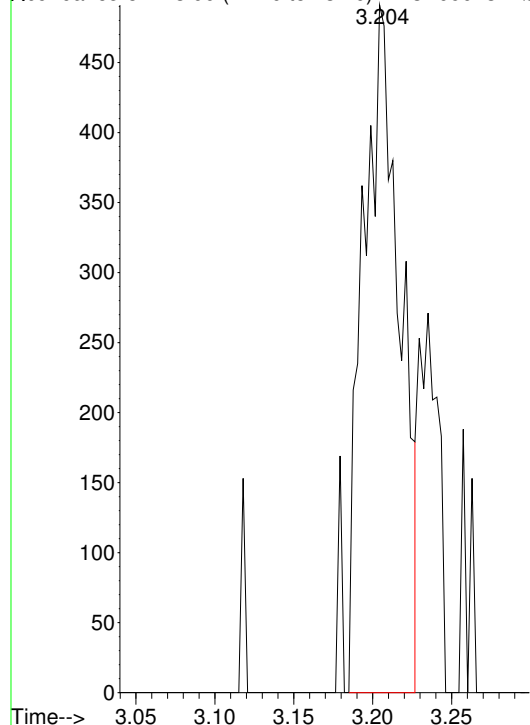
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09013.D
Acq On : 31 Mar 2023 1:09 pm
Operator :
Sample : 23C3284-03
Misc : 1

Quant Time : Mon Apr 03 07:41:13 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V09013.D



Original Int. Results

RT : 3.20
Area : 797
Amount: 0.484744

Manual Int. Results

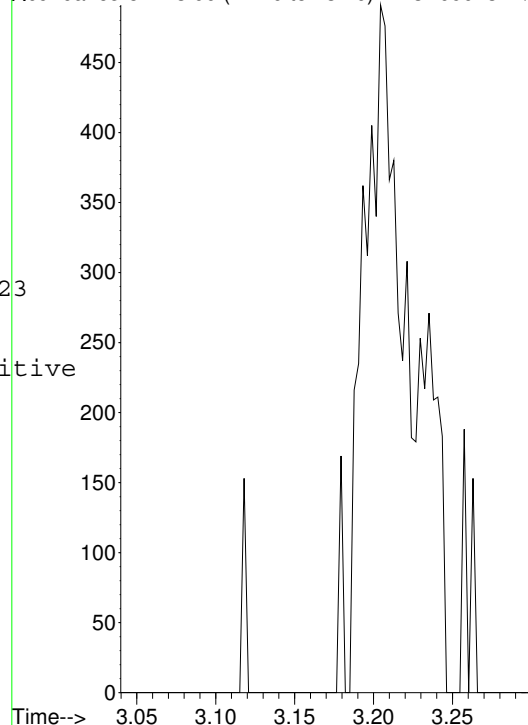
Mon Apr 03 07:41:02 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

2-BUTANONE

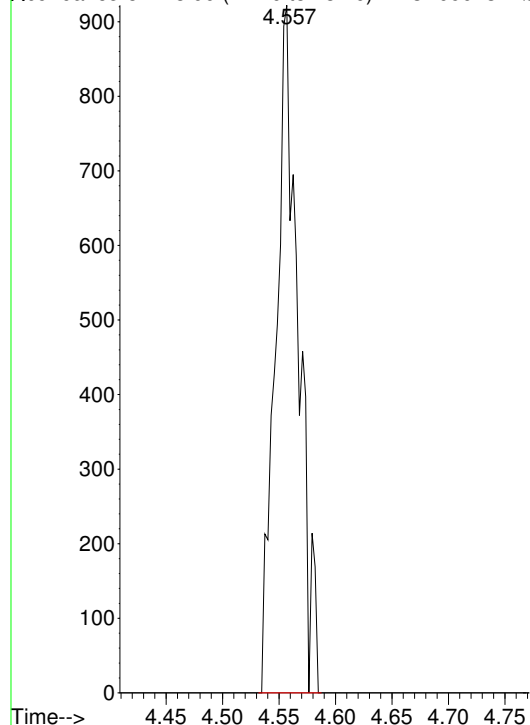
Abundance on 43.00 (42.70 to 43.70): E23V09013.D



Original Integration

BENZENE

Abundance on 78.00 (77.70 to 78.70): E23V09013.D



Original Int. Results

RT : 4.56
Area : 1281
Amount: 0.0866581

Manual Int. Results

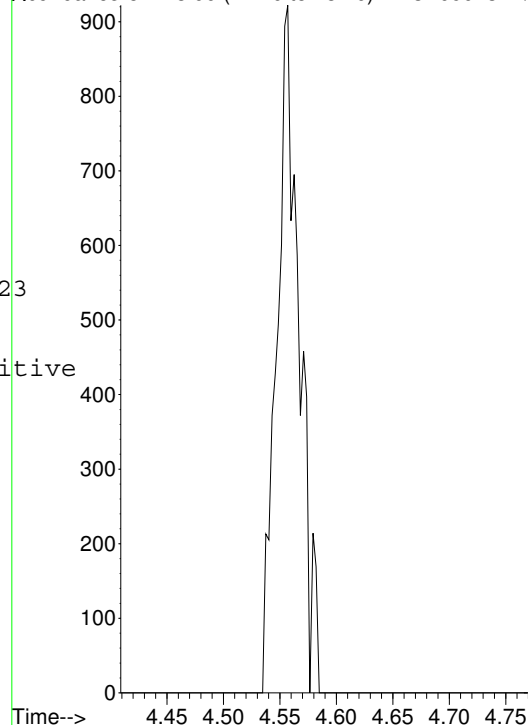
Mon Apr 03 07:41:07 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BENZENE

Abundance on 78.00 (77.70 to 78.70): E23V09013.D



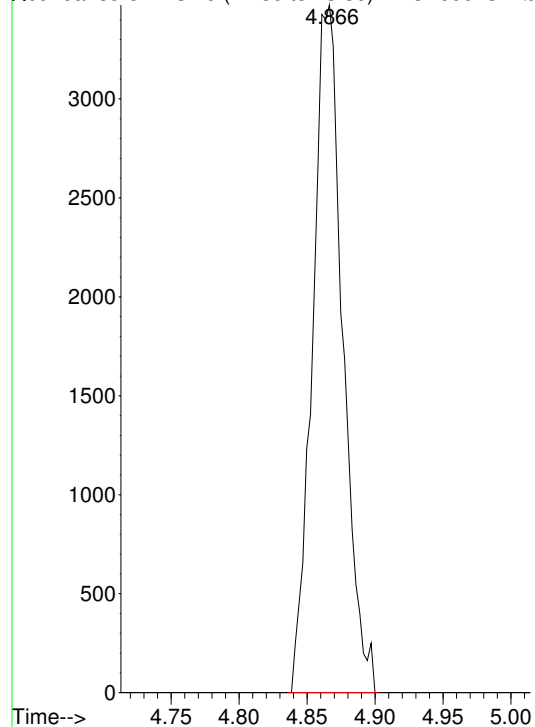
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09013.D
Acq On : 31 Mar 2023 1:09 pm
Operator :
Sample : 23C3284-03
Misc : 1

Quant Time : Mon Apr 03 07:41:13 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

T-AMYLMETHYL ETHER

Abundancelon 73.10 (72.80 to 73.80): E23V09013.D\



Original Int. Results

RT : 4.87
Area : 5366
Amount: 0.613189

Manual Int. Results

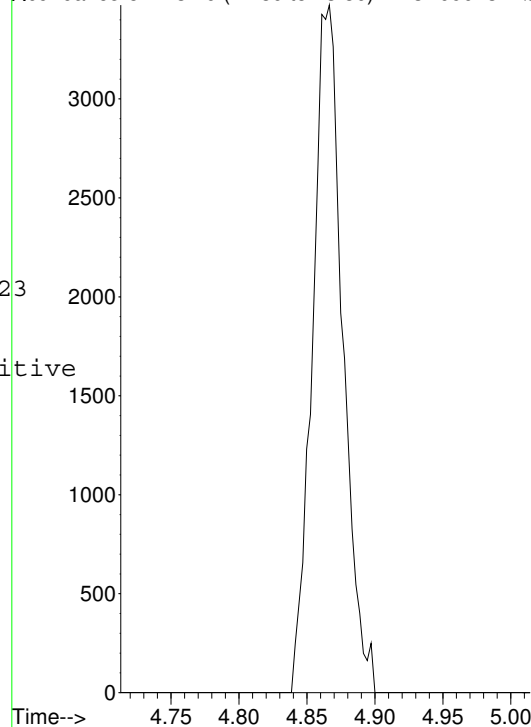
Mon Apr 03 07:41:09 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

T-AMYLMETHYL ETHER

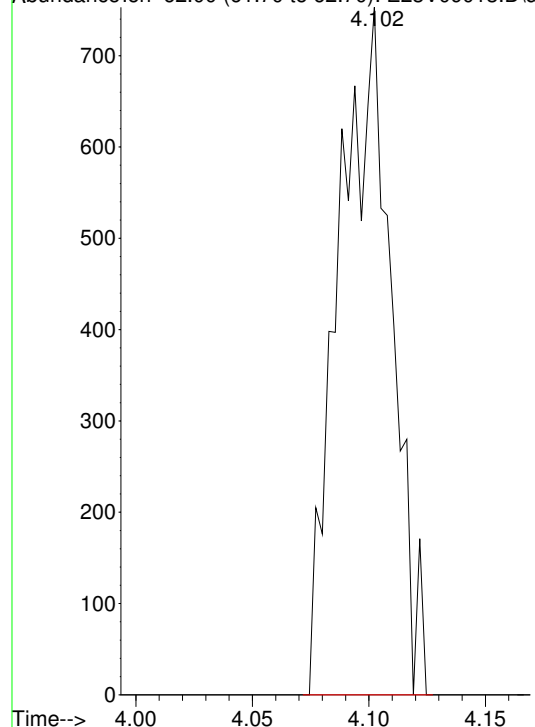
Abundancelon 73.10 (72.80 to 73.80): E23V09013.D\



Original Integration

1,2-DICHLOROETHANE

Abundancelon 62.00 (61.70 to 62.70): E23V09013.D\



Original Int. Results

RT : 4.10
Area : 1188
Amount: 0.265729

Manual Int. Results

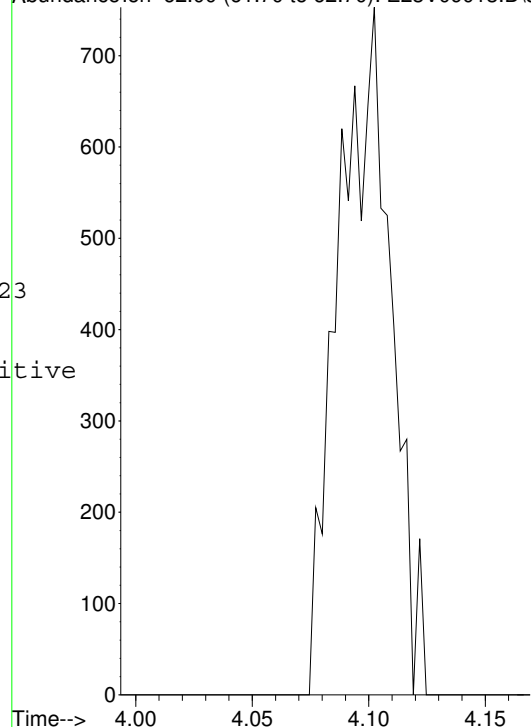
Mon Apr 03 07:41:11 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

Abundancelon 62.00 (61.70 to 62.70): E23V09013.D\



1 - FORM I

ANALYSIS DATA SHEET

107

MW-17S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-04
		File ID:	E23V09014.D
Sampled:	03/28/23 12:34	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 13:37
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
107-13-1	Acrylonitrile		0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.13	0.50	
71-43-2	Benzene		0.18	1.0	
108-86-1	Bromobenzene		0.15	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	V-05
78-93-3	2-Butanone (MEK)		1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)		4.3	20	
104-51-8	n-Butylbenzene		0.15	1.0	
135-98-8	sec-Butylbenzene		0.13	1.0	
98-06-6	tert-Butylbenzene		0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.15	0.50	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
95-49-8	2-Chlorotoluene		0.15	1.0	
106-43-4	4-Chlorotoluene		0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
74-95-3	Dibromomethane		0.32	1.0	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

108

MW-17S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-04
		File ID:	E23V09014.D
Sampled:	03/28/23 12:34	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 13:37
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
142-28-9	1,3-Dichloropropane		0.12	0.50	
594-20-7	2,2-Dichloropropane		0.35	1.0	
563-58-6	1,1-Dichloropropene		0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
60-29-7	Diethyl Ether		0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)		0.20	0.50	
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
87-68-3	Hexachlorobutadiene		0.47	0.60	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.13	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
91-20-3	Naphthalene		0.38	2.0	
103-65-1	n-Propylbenzene		0.12	1.0	
100-42-5	Styrene		0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane		0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

109

MW-17S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-04
		File ID:	E23V09014.D
Sampled:	03/28/23 12:34	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 13:37
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
109-99-9	Tetrahydrofuran		0.49	10	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene		0.21	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
96-18-4	1,2,3-Trichloropropane		0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.15	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
108383/106423	m+p Xylene		0.49	2.0	
95-47-6	o-Xylene		0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09014.D
 Acq On : 31 Mar 2023 1:37 pm
 Operator :
 Sample : 23C3284-04
 Misc : 1
 ALS Vial : 8 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 07:41:56 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

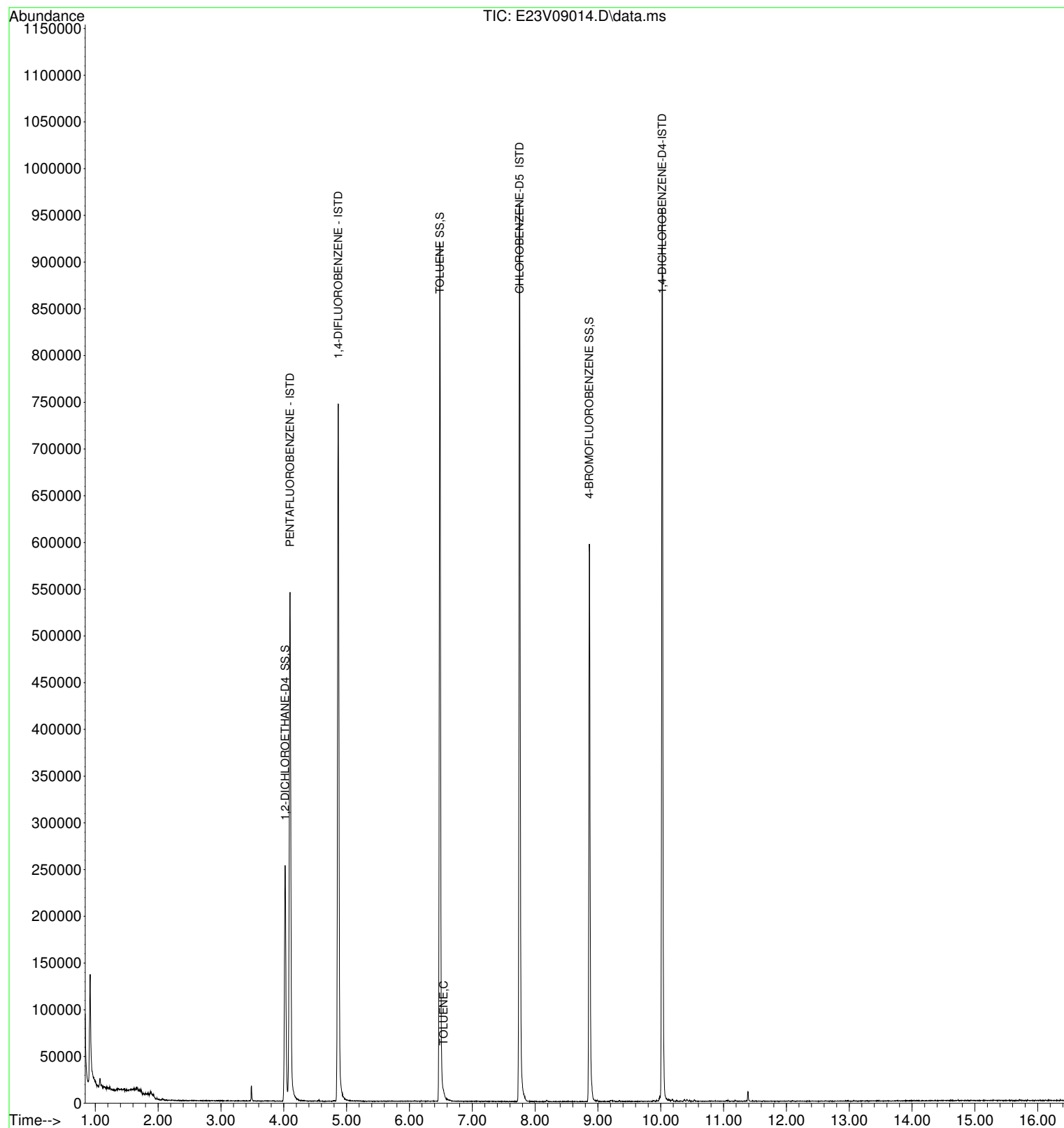
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	371083	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	551974	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	257684	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	224338	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	153440	24.95	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.80%
50) TOLUENE SS	6.484	98	522804	24.62	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.48%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	174179	24.22	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.88%
Target Compounds						
62) TOLUENE	6.542	91	2031	0.14	UG/L	Qvalue 84

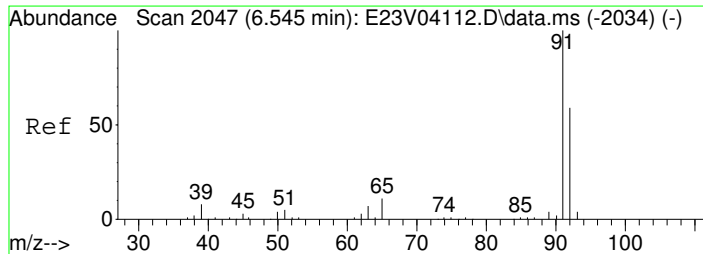
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09014.D
Acq On : 31 Mar 2023 1:37 pm
Operator :
Sample : 23C3284-04
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Inst : GCMSVOA5

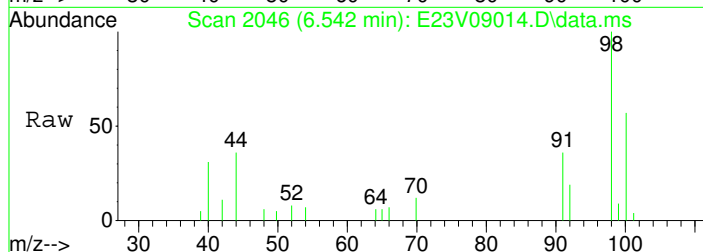
Quant Time: Apr 03 07:41:56 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration



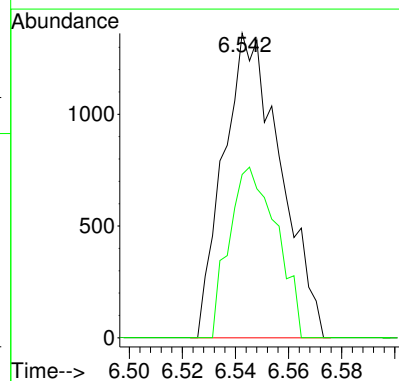
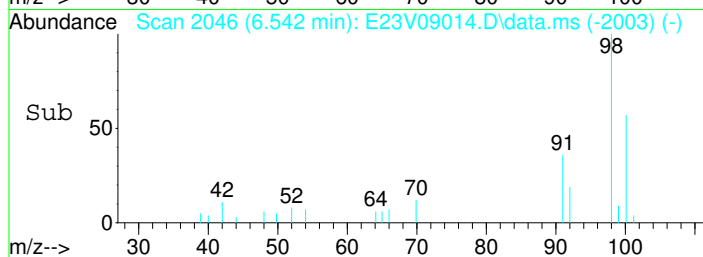


#62
 TOLUENE
 Concen: 0.14 UG/L
 RT: 6.542 min Scan# 2046
 Delta R.T. -0.003 min
 Lab File: E23V09014.D
 Acq: 31 Mar 2023 1:37 pm

112



Tgt Ion: 91 Resp: 2031
 Ion Ratio Lower Upper
 91 100
 92 46.5 46.5 69.7

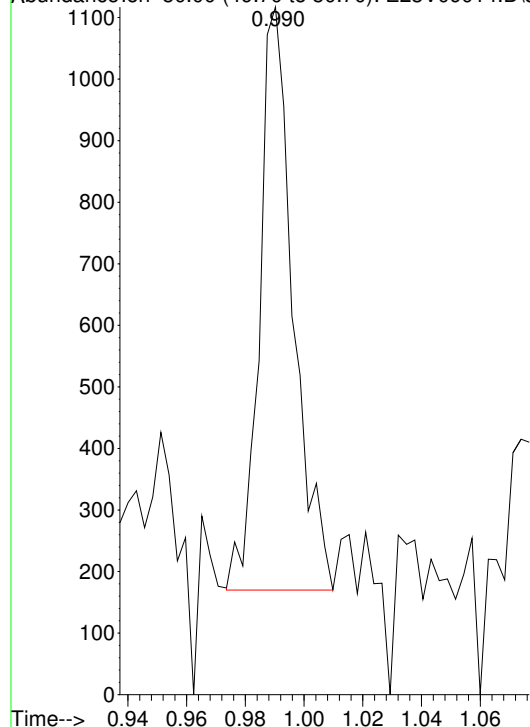


Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09014.D
Acq On : 31 Mar 2023 1:37 pm
Operator :
Sample : 23C3284-04
Misc : 1

Quant Time : Mon Apr 03 07:41:56 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration
CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09014.D



Original Int. Results

RT : 0.99
Area : 756
Amount: 0.173136

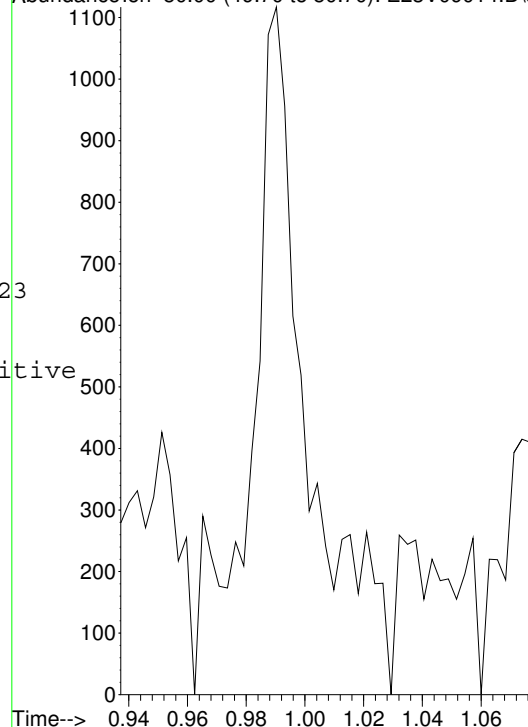
Manual Int. Results

Mon Apr 03 07:41:30 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

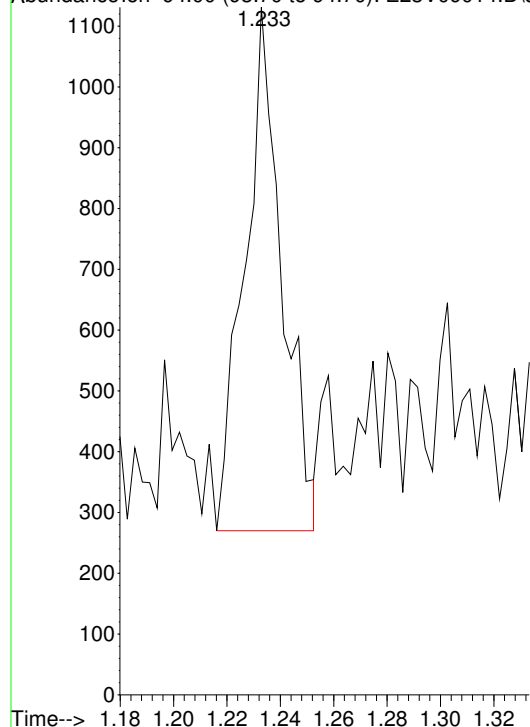
Manual Integration
CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09014.D



Original Integration
BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09014.D



Original Int. Results

RT : 1.23
Area : 837
Amount: 0.338403

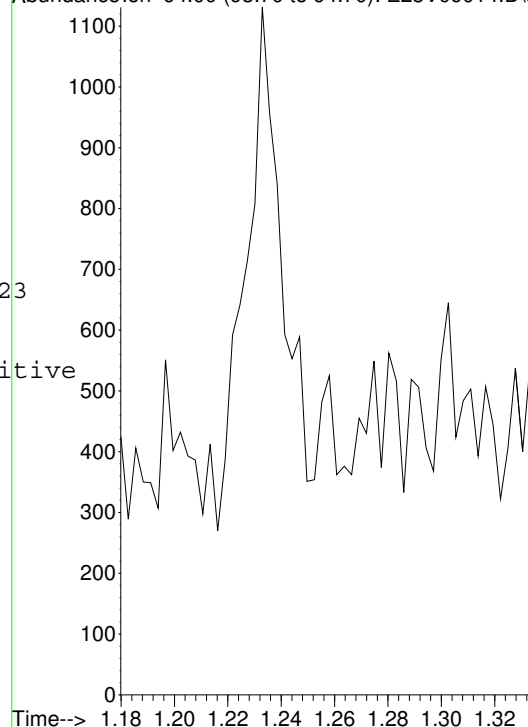
Manual Int. Results

Mon Apr 03 07:41:32 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09014.D



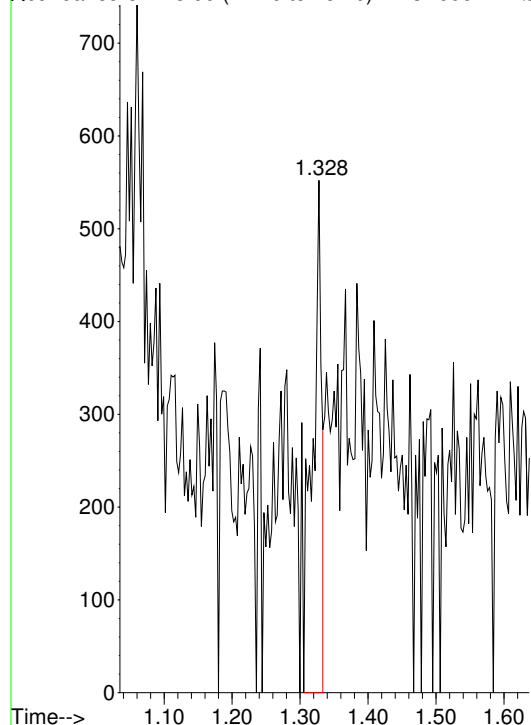
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09014.D
Acq On : 31 Mar 2023 1:37 pm
Operator :
Sample : 23C3284-04
Misc : 1

Quant Time : Mon Apr 03 07:41:56 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V09014.D\



Original Int. Results

RT : 1.33
Area : 506
Amount: 9.82022

Manual Int. Results

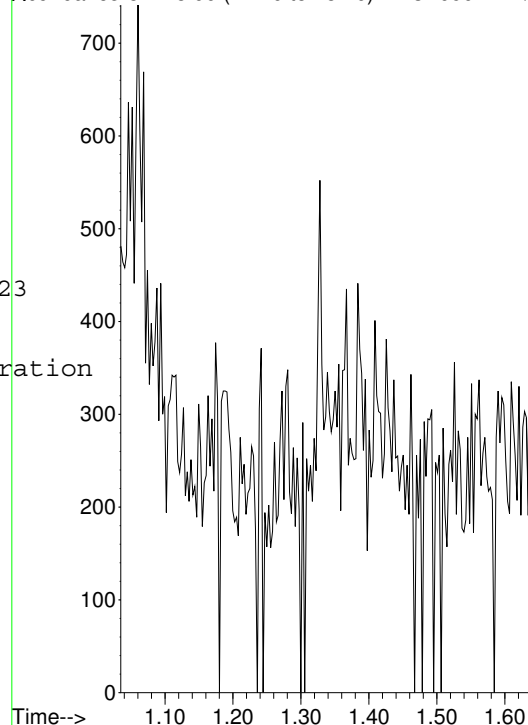
Mon Apr 03 07:41:34 2023

MIuser: eeh
Reason: Incoret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

Ethanol

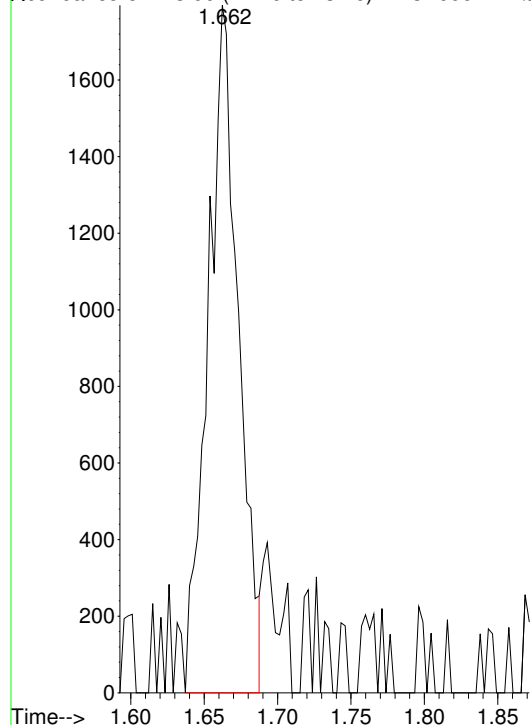
Abundance on 45.00 (44.70 to 45.70): E23V09014.D\



Original Integration

ACETONE

Abundance on 43.00 (42.70 to 43.70): E23V09014.D\



Original Int. Results

RT : 1.66
Area : 2584
Amount: 2.48906

Manual Int. Results

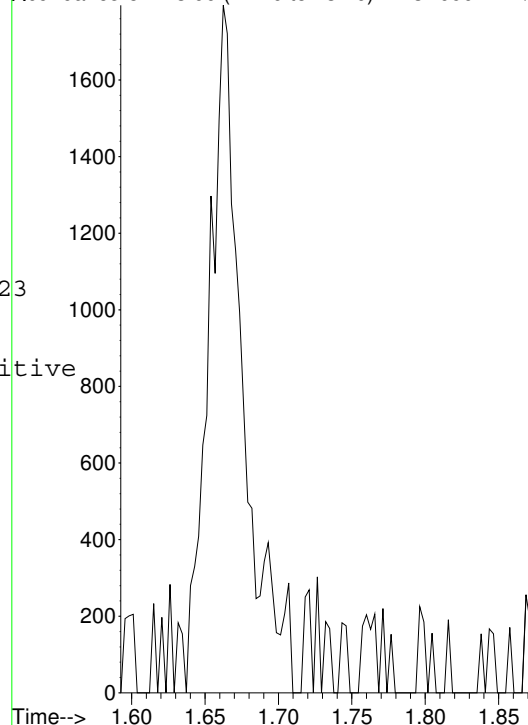
Mon Apr 03 07:41:37 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

ACETONE

Abundance on 43.00 (42.70 to 43.70): E23V09014.D\



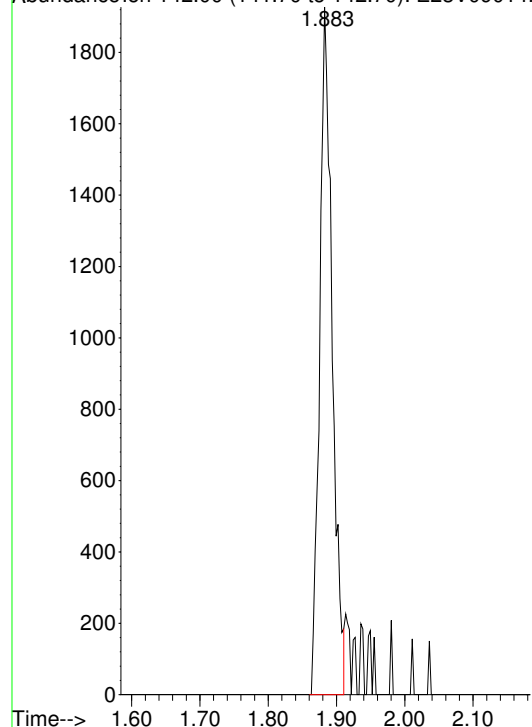
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09014.D
Acq On : 31 Mar 2023 1:37 pm
Operator :
Sample : 23C3284-04
Misc : 1

Quant Time : Mon Apr 03 07:41:56 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09014.D



Original Int. Results

RT : 1.88
Area : 2459
Amount: 0.524066

Manual Int. Results

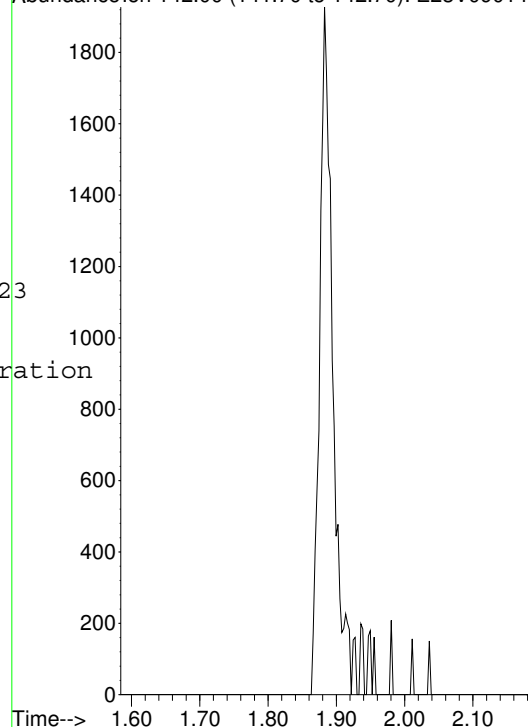
Mon Apr 03 07:41:39 2023

MIuser: eeh
Reason: Incoret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

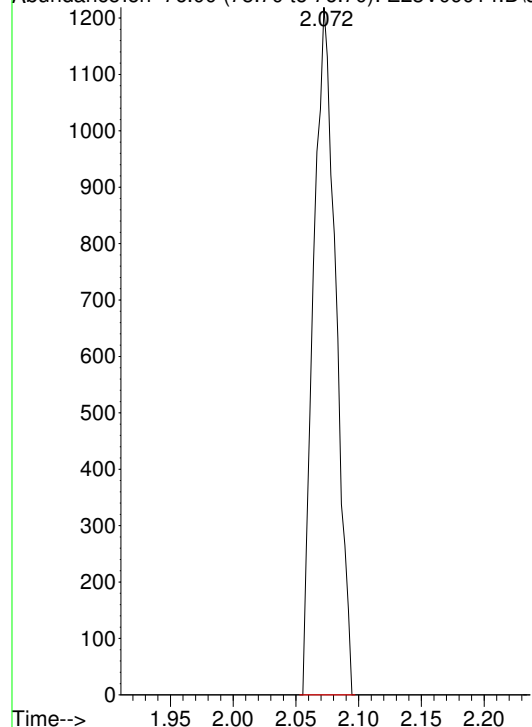
Abundance on 142.00 (141.70 to 142.70): E23V09014.D



Original Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09014.D



Original Int. Results

RT : 2.07
Area : 1505
Amount: 0.145326

Manual Int. Results

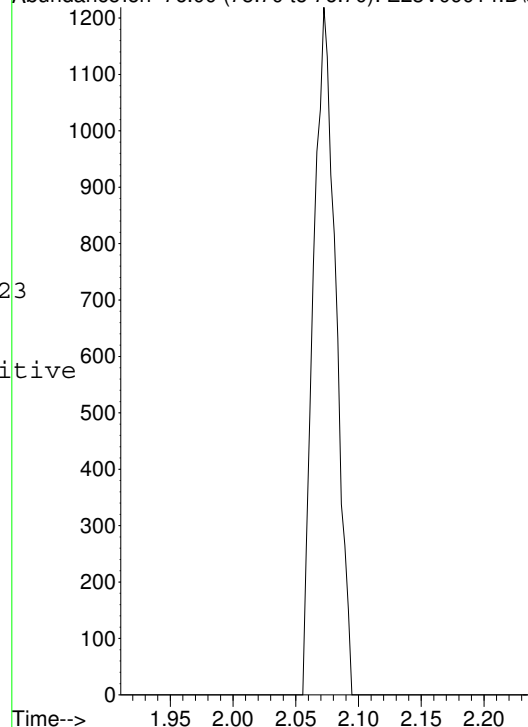
Mon Apr 03 07:41:42 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09014.D



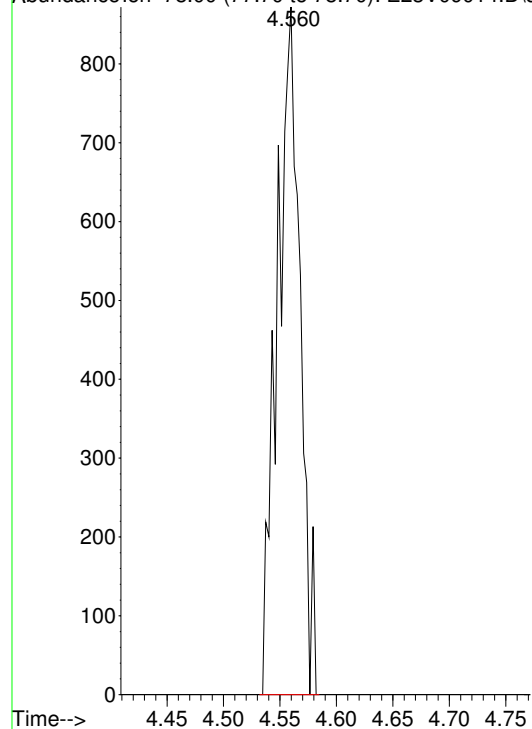
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09014.D
Acq On : 31 Mar 2023 1:37 pm
Operator :
Sample : 23C3284-04
Misc : 1

Quant Time : Mon Apr 03 07:41:56 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

BENZENE

Abundance 78.00 (77.70 to 78.70): E23V09014.D



Original Int. Results

RT : 4.56
Area : 1228
Amount: 0.082462

Manual Int. Results

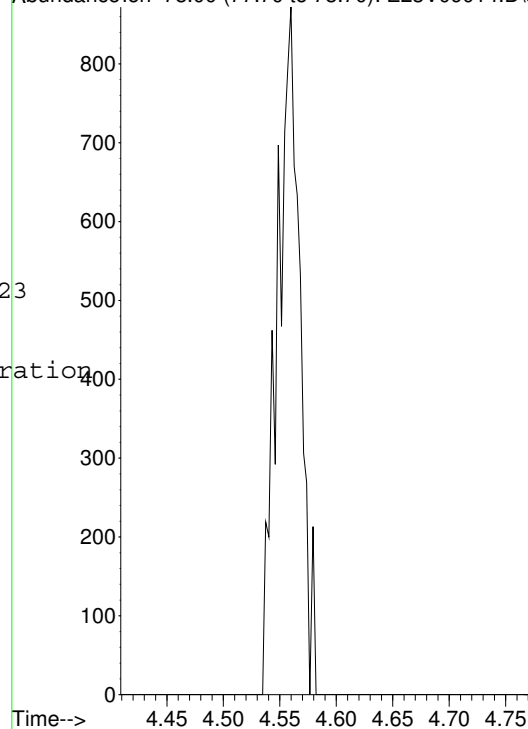
Mon Apr 03 07:41:46 2023

MIuser: eeh
Reason: Incorret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BENZENE

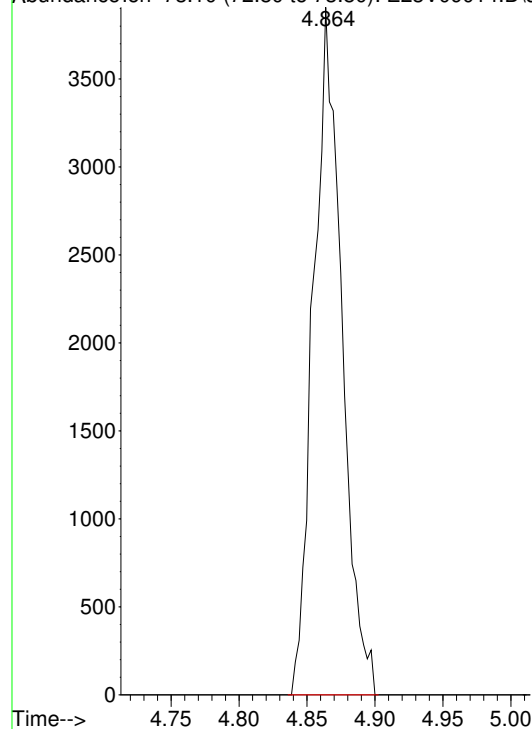
Abundance 78.00 (77.70 to 78.70): E23V09014.D



Original Integration

T-AMYLMETHYL ETHER

Abundance 73.10 (72.80 to 73.80): E23V09014.D



Original Int. Results

RT : 4.86
Area : 5668
Amount: 0.642938

Manual Int. Results

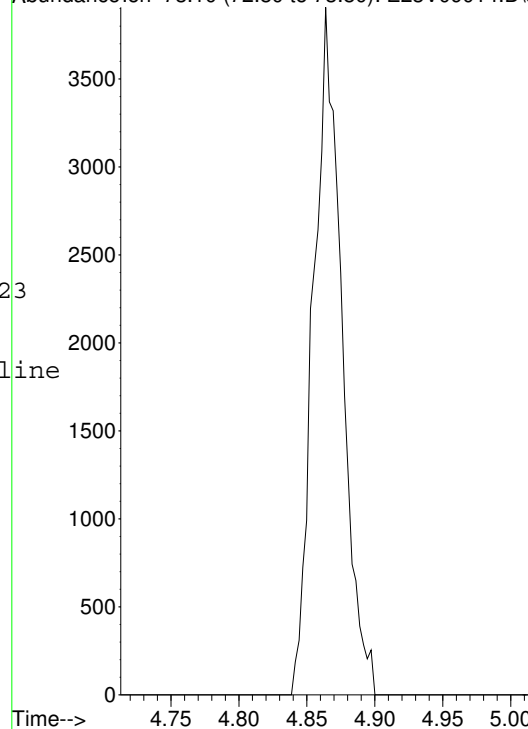
Mon Apr 03 07:41:48 2023

MIuser: eeh
Reason: Incorrect Baseline
RT : 0.00
Area : 0
Amount: 0

Manual Integration

T-AMYLMETHYL ETHER

Abundance 73.10 (72.80 to 73.80): E23V09014.D



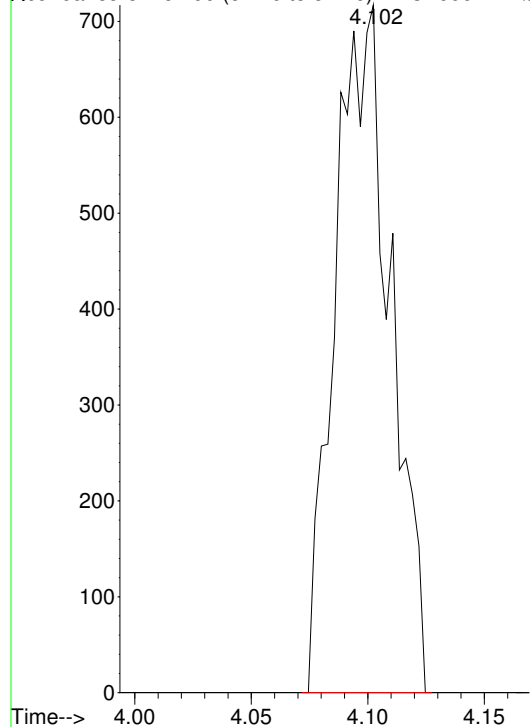
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09014.D
Acq On : 31 Mar 2023 1:37 pm
Operator :
Sample : 23C3284-04
Misc : 1

Quant Time : Mon Apr 03 07:41:56 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09014.D



Original Int. Results

RT : 4.10
Area : 1195
Amount: 0.272284

Manual Int. Results

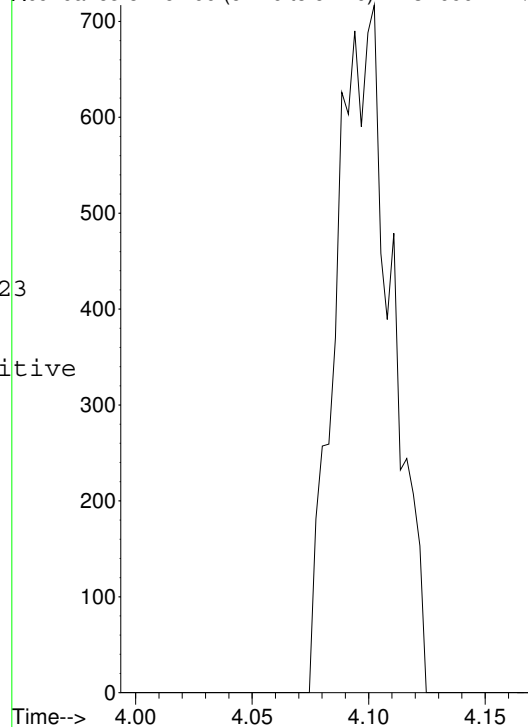
Mon Apr 03 07:41:51 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

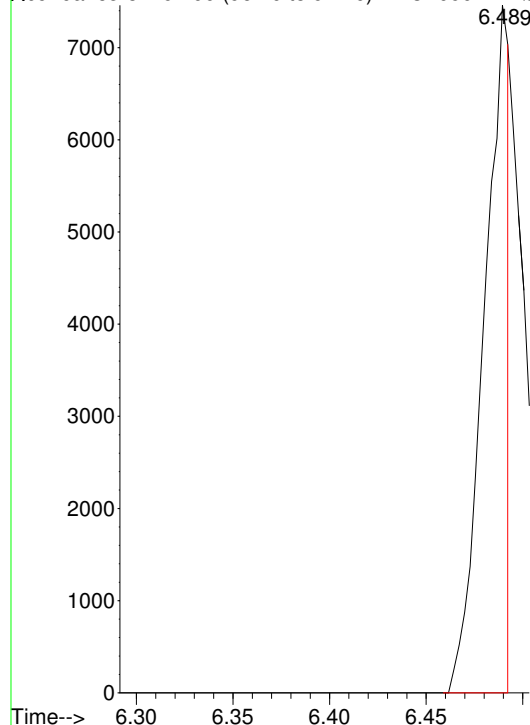
Abundance on 62.00 (61.70 to 62.70): E23V09014.D



Original Integration

1,1,2-TRICHLOROETHANE

Abundance on 97.00 (96.70 to 97.70): E23V09014.D



Original Int. Results

RT : 6.49
Area : 6603
Amount: 2.18807

Manual Int. Results

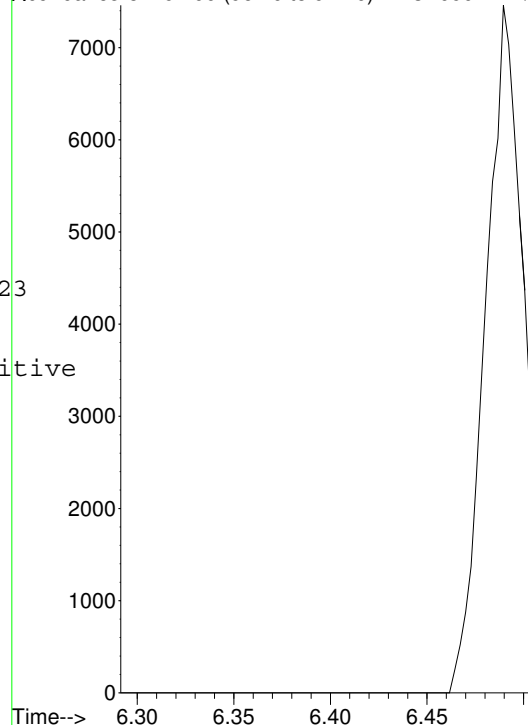
Mon Apr 03 07:41:55 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,1,2-TRICHLOROETHANE

Abundance on 97.00 (96.70 to 97.70): E23V09014.D



1 - FORM I

ANALYSIS DATA SHEET

118

MW-19S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-05
		File ID:	E23V09015.D
Sampled:	03/28/23 13:25	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 14:04
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
107-13-1	Acrylonitrile		0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.13	0.50	
71-43-2	Benzene		0.18	1.0	
108-86-1	Bromobenzene		0.15	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	V-05
78-93-3	2-Butanone (MEK)		1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)		4.3	20	
104-51-8	n-Butylbenzene		0.15	1.0	
135-98-8	sec-Butylbenzene		0.13	1.0	
98-06-6	tert-Butylbenzene		0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.15	0.50	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
95-49-8	2-Chlorotoluene		0.15	1.0	
106-43-4	4-Chlorotoluene		0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
74-95-3	Dibromomethane		0.32	1.0	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

119

MW-19S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-05
		File ID:	E23V09015.D
Sampled:	03/28/23 13:25	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 14:04
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
142-28-9	1,3-Dichloropropane		0.12	0.50	
594-20-7	2,2-Dichloropropane		0.35	1.0	
563-58-6	1,1-Dichloropropene		0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
60-29-7	Diethyl Ether		0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)		0.20	0.50	
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
87-68-3	Hexachlorobutadiene		0.47	0.60	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.13	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
91-20-3	Naphthalene		0.38	2.0	
103-65-1	n-Propylbenzene		0.12	1.0	
100-42-5	Styrene		0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane		0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

120

MW-19S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-05
		File ID:	E23V09015.D
Sampled:	03/28/23 13:25	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 14:04
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene	0.44	0.17	1.0	J
109-99-9	Tetrahydrofuran		0.49	10	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene		0.21	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
96-18-4	1,2,3-Trichloropropane		0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.15	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
108383/106423	m+p Xylene		0.49	2.0	
95-47-6	o-Xylene		0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09015.D
 Acq On : 31 Mar 2023 2:04 pm
 Operator :
 Sample : 23C3284-05
 Misc : 1
 ALS Vial : 9 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 07:42:34 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

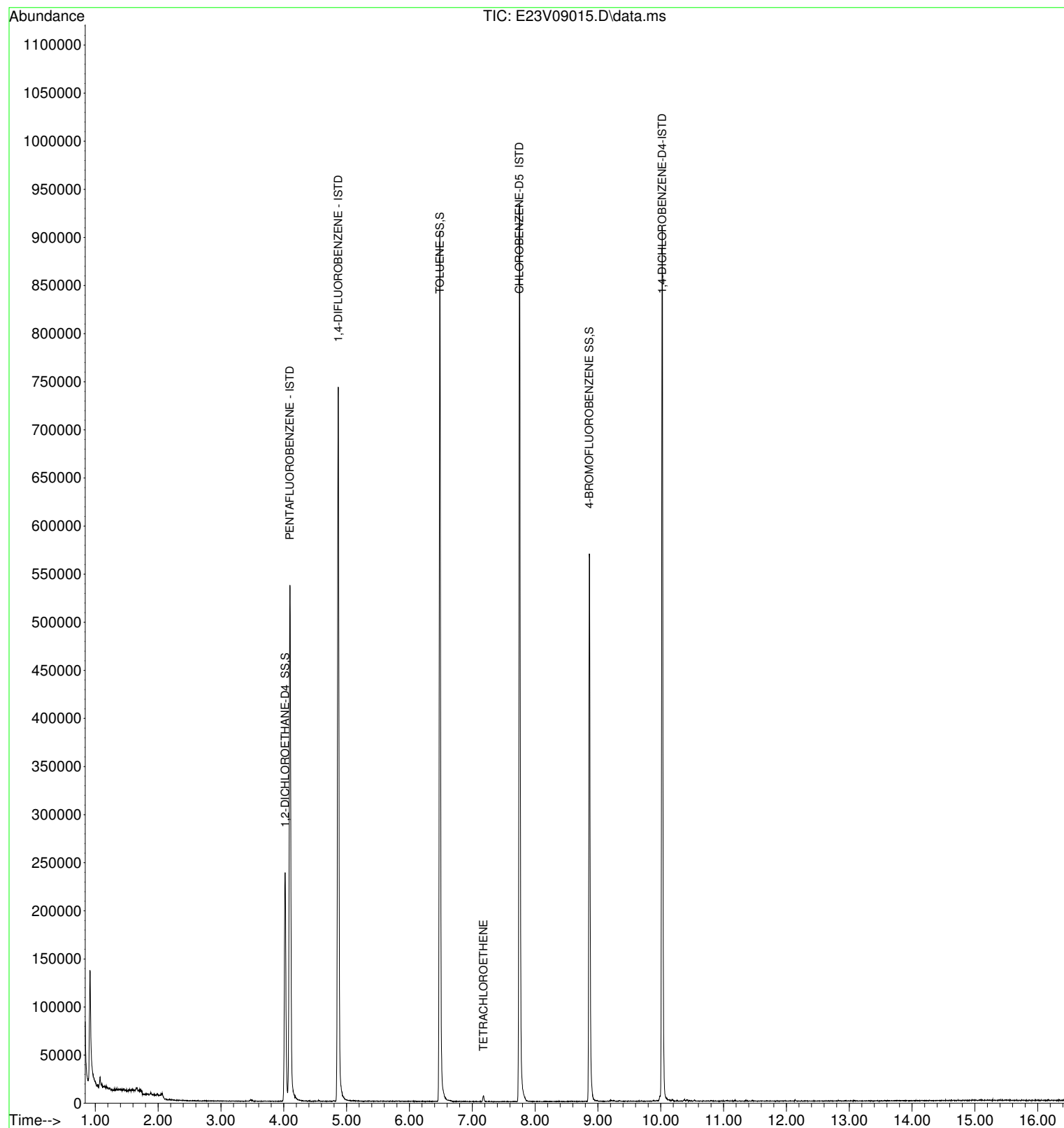
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.097	168	365279	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	539847	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.750	82	250278	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	218780	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	149761	24.74	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.96%
50) TOLUENE SS	6.484	98	511289	24.61	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.44%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	169106	24.21	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.84%
Target Compounds						
67) TETRACHLOROETHENE	7.178	166	1693	0.44	UG/L	Qvalue # 71

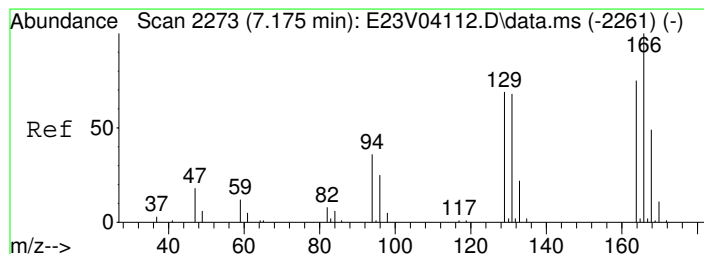
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09015.D
Acq On : 31 Mar 2023 2:04 pm
Operator :
Sample : 23C3284-05
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Inst : GCMSVOA5

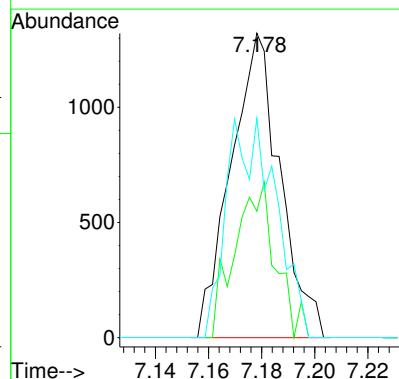
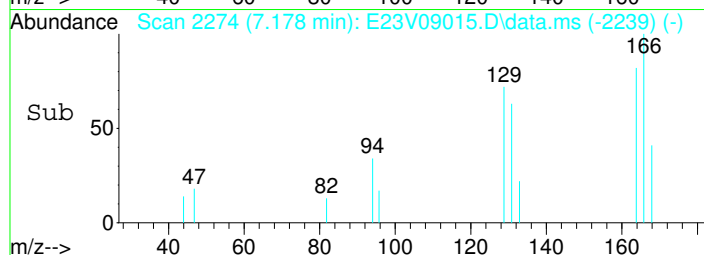
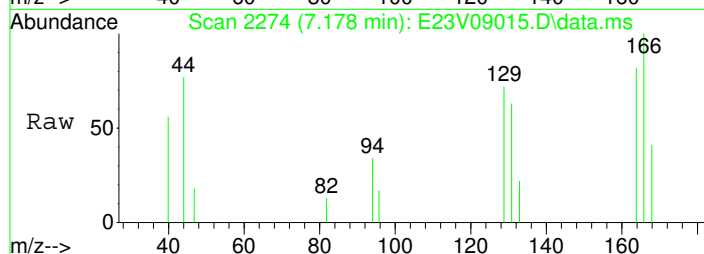
Quant Time: Apr 03 07:42:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration





#67
TETRACHLOROETHENE
Concen: 0.44 UG/L
RT: 7.178 min Scan# 2274
Delta R.T. 0.003 min
Lab File: E23V09015.D
Acq: 31 Mar 2023 2:04 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
168	42.5	38.2	57.4
129	35.5	56.6	84.8#



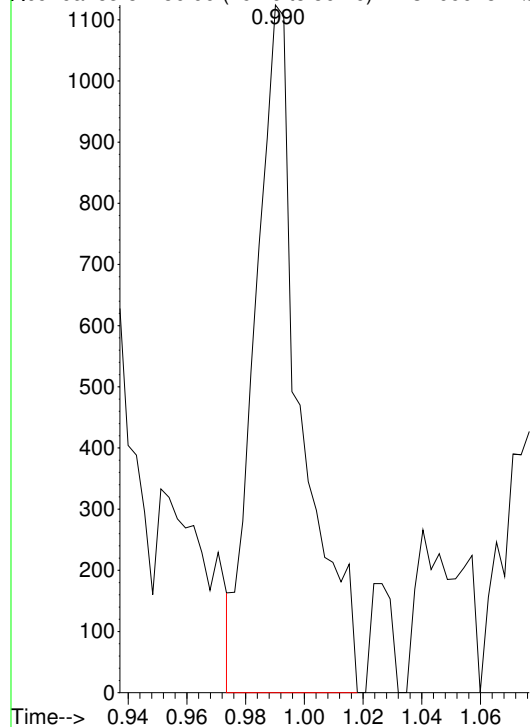
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09015.D
Acq On : 31 Mar 2023 2:04 pm
Operator :
Sample : 23C3284-05
Misc : 1

Quant Time : Mon Apr 03 07:42:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09015.D



Original Int. Results

RT : 0.99
Area : 1216
Amount: 0.282909

Manual Int. Results

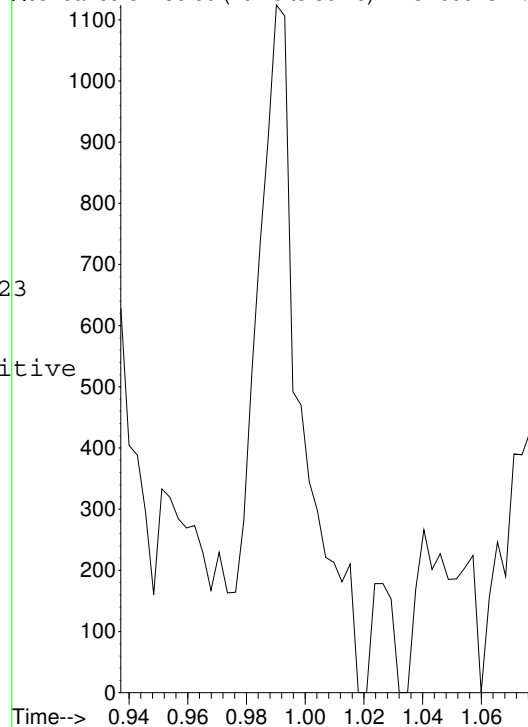
Mon Apr 03 07:42:12 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CHLOROMETHANE

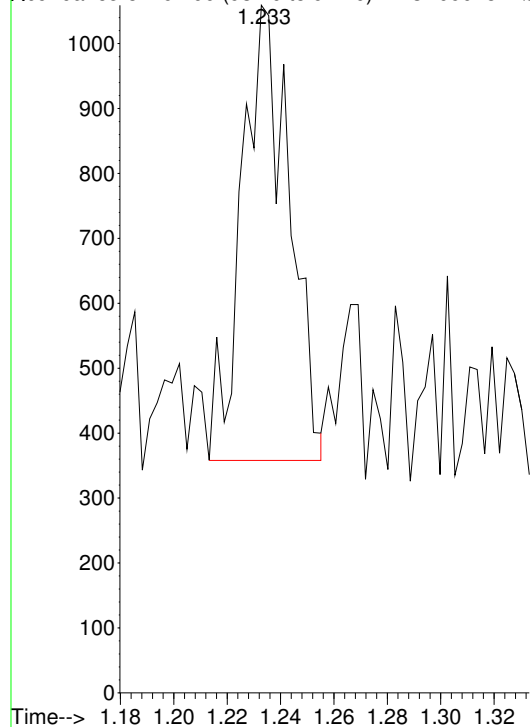
Abundance on 50.00 (49.70 to 50.70): E23V09015.D



Original Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09015.D



Original Int. Results

RT : 1.23
Area : 866
Amount: 0.355691

Manual Int. Results

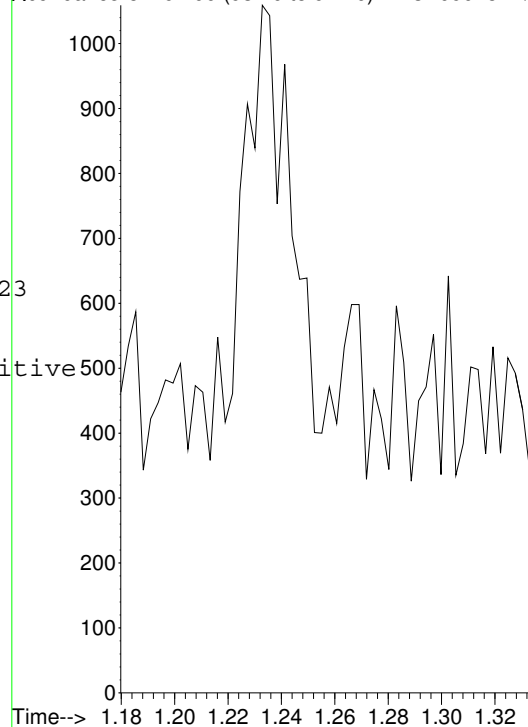
Mon Apr 03 07:42:14 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09015.D



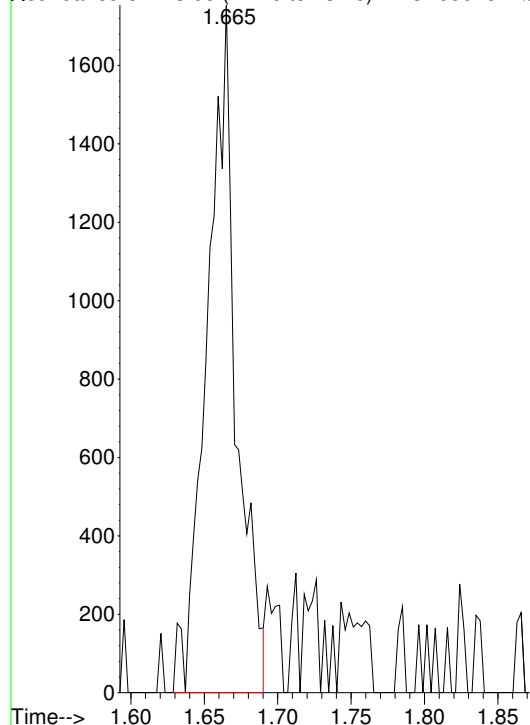
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09015.D
Acq On : 31 Mar 2023 2:04 pm
Operator :
Sample : 23C3284-05
Misc : 1

Quant Time : Mon Apr 03 07:42:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

ACETONE

Abundancelon 43.00 (42.70 to 43.70): E23V09015.D\



Original Int. Results

RT : 1.67
Area : 2422
Amount: 2.37008

Manual Int. Results

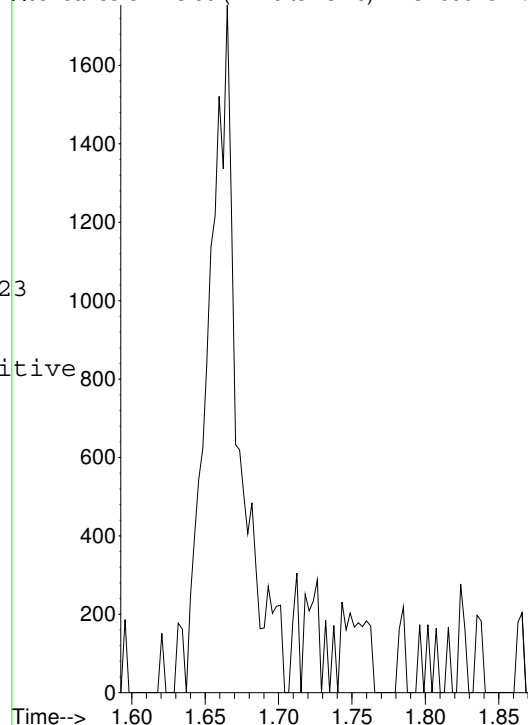
Mon Apr 03 07:42:17 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

ACETONE

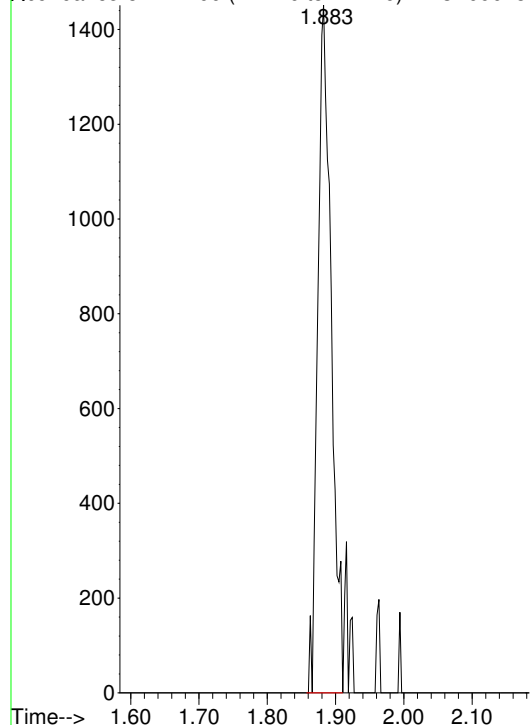
Abundancelon 43.00 (42.70 to 43.70): E23V09015.D\



Original Integration

IODOMETHANE

Abundancelon 142.00 (141.70 to 142.70): E23V09015.I



Original Int. Results

RT : 1.88
Area : 1984
Amount: 0.429551

Manual Int. Results

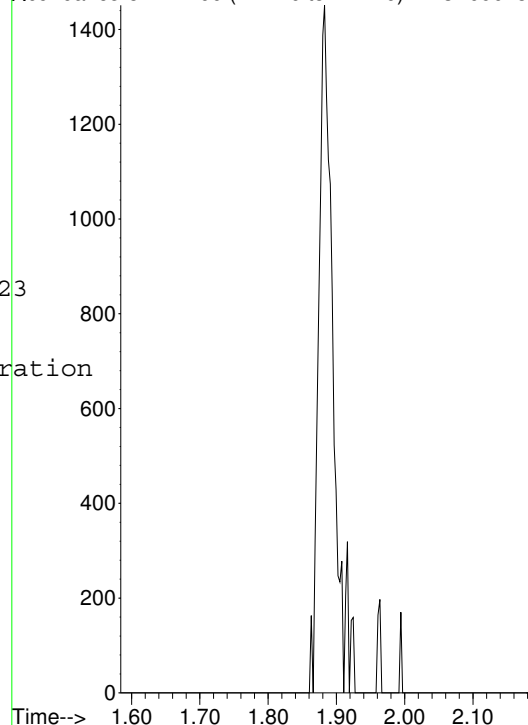
Mon Apr 03 07:42:19 2023

MIuser: eeh
Reason: Incorret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

Abundancelon 142.00 (141.70 to 142.70): E23V09015.I



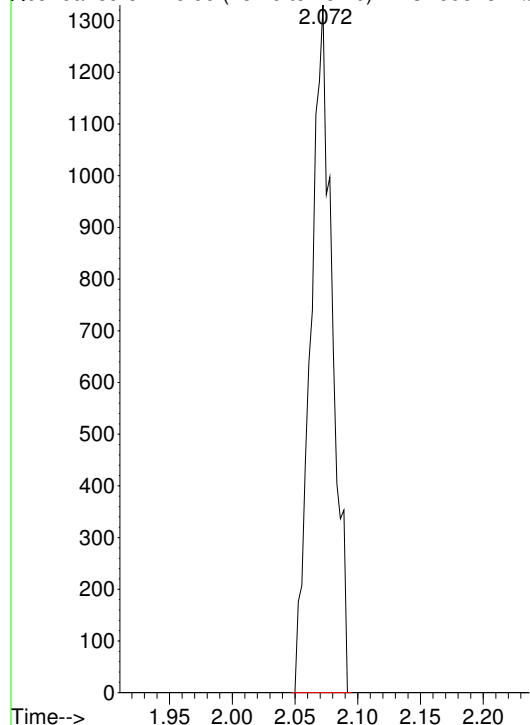
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09015.D
Acq On : 31 Mar 2023 2:04 pm
Operator :
Sample : 23C3284-05
Misc : 1

Quant Time : Mon Apr 03 07:42:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09015.D



Original Int. Results

RT : 2.07
Area : 1598
Amount: 0.156758

Manual Int. Results

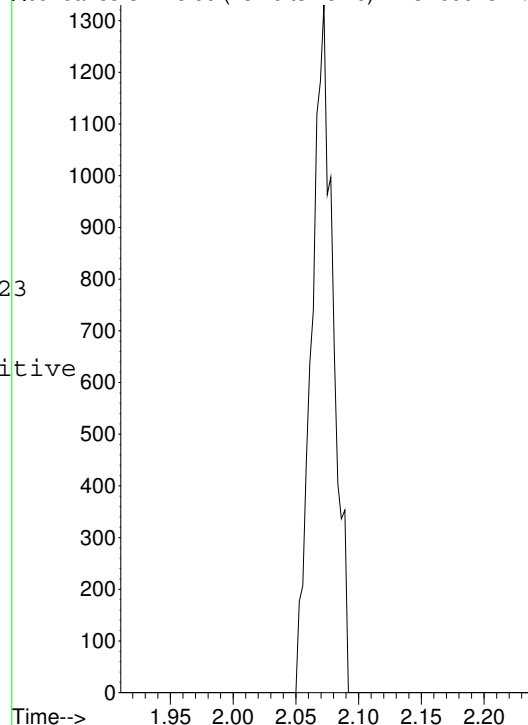
Mon Apr 03 07:42:24 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CARBON DISULFIDE

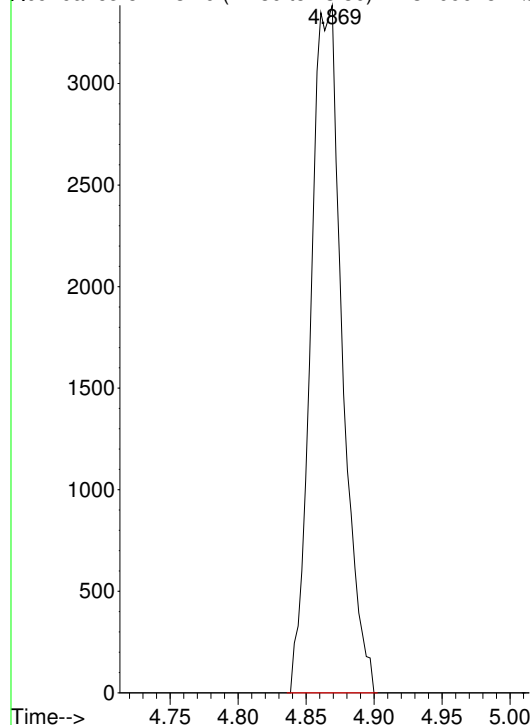
Abundance on 76.00 (75.70 to 76.70): E23V09015.D



Original Integration

T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09015.D



Original Int. Results

RT : 4.87
Area : 5419
Amount: 0.62446

Manual Int. Results

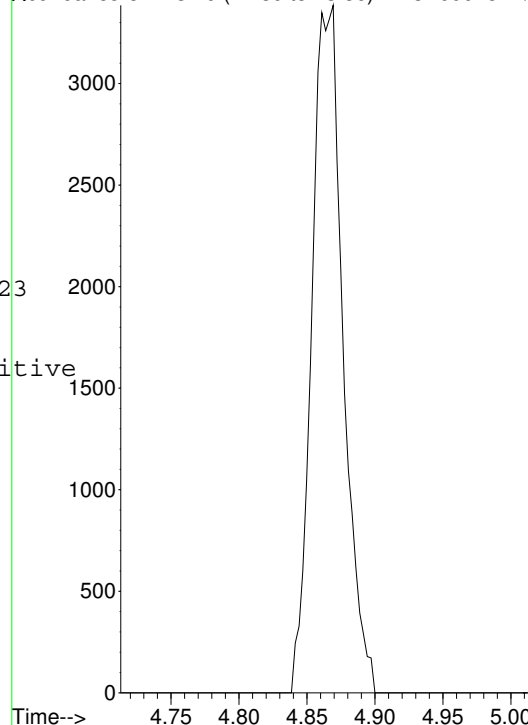
Mon Apr 03 07:42:27 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09015.D



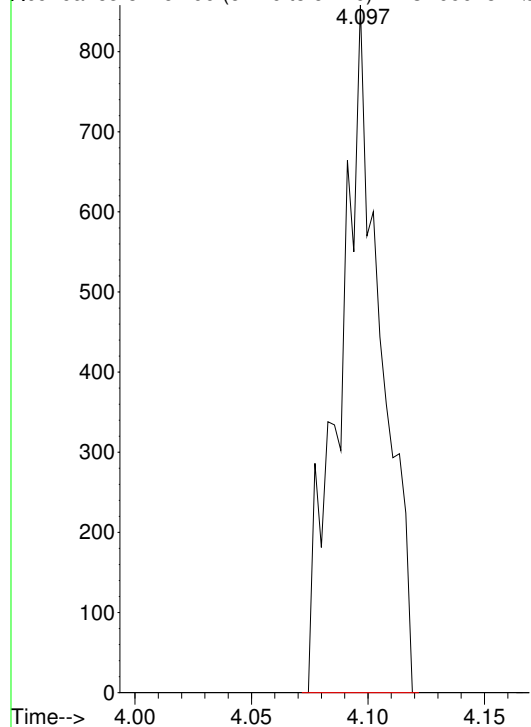
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09015.D
Acq On : 31 Mar 2023 2:04 pm
Operator :
Sample : 23C3284-05
Misc : 1

Quant Time : Mon Apr 03 07:42:34 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09015.D



Original Int. Results

RT : 4.10
Area : 1055
Amount: 0.245785

Manual Int. Results

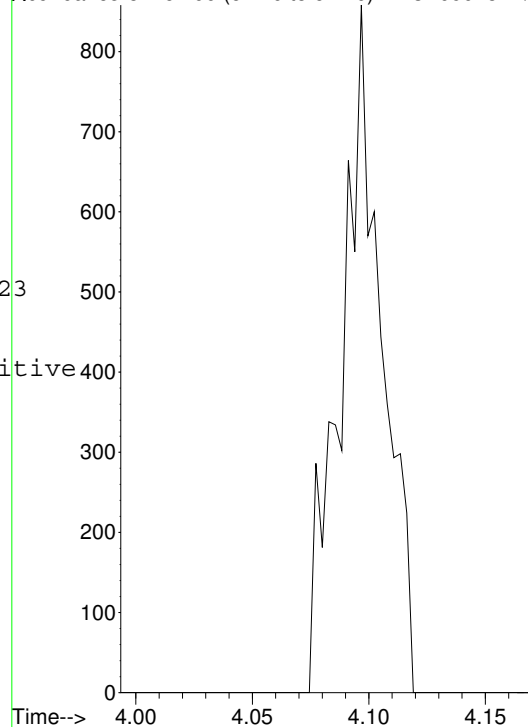
Mon Apr 03 07:42:29 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

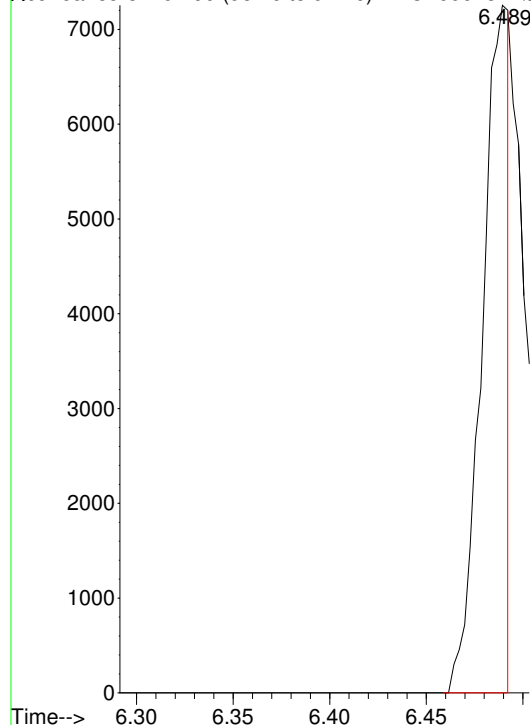
Abundance on 62.00 (61.70 to 62.70): E23V09015.D



Original Integration

1,1,2-TRICHLOROETHANE

Abundance on 97.00 (96.70 to 97.70): E23V09015.D



Original Int. Results

RT : 6.49
Area : 6958
Amount: 2.3575

Manual Int. Results

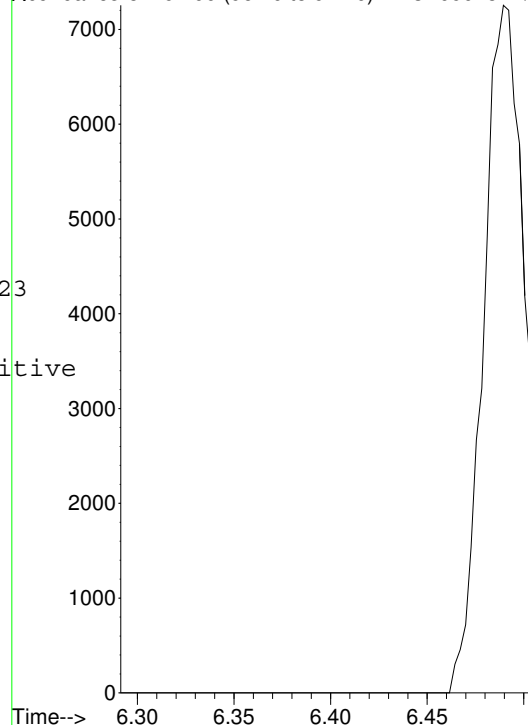
Mon Apr 03 07:42:33 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,1,2-TRICHLOROETHANE

Abundance on 97.00 (96.70 to 97.70): E23V09015.D



1 - FORM I

ANALYSIS DATA SHEET

128

FieldBlank_20230328

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-06
		File ID:	E23V09008.D
Sampled:	03/28/23 13:45	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 10:53
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
107-13-1	Acrylonitrile		0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.13	0.50	
71-43-2	Benzene		0.18	1.0	
108-86-1	Bromobenzene		0.15	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	V-05
78-93-3	2-Butanone (MEK)		1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)		4.3	20	
104-51-8	n-Butylbenzene		0.15	1.0	
135-98-8	sec-Butylbenzene		0.13	1.0	
98-06-6	tert-Butylbenzene		0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.15	0.50	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
95-49-8	2-Chlorotoluene		0.15	1.0	
106-43-4	4-Chlorotoluene		0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
74-95-3	Dibromomethane		0.32	1.0	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

129

FieldBlank_20230328

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-06
		File ID:	E23V09008.D
Sampled:	03/28/23 13:45	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 10:53
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
142-28-9	1,3-Dichloropropane		0.12	0.50	
594-20-7	2,2-Dichloropropane		0.35	1.0	
563-58-6	1,1-Dichloropropene		0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
60-29-7	Diethyl Ether		0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)		0.20	0.50	
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
87-68-3	Hexachlorobutadiene		0.47	0.60	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.13	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
91-20-3	Naphthalene		0.38	2.0	
103-65-1	n-Propylbenzene		0.12	1.0	
100-42-5	Styrene		0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane		0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

130

FieldBlank_20230328

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-06
		File ID:	E23V09008.D
Sampled:	03/28/23 13:45	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 10:53
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
109-99-9	Tetrahydrofuran		0.49	10	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene		0.21	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
96-18-4	1,2,3-Trichloropropane		0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.15	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
108383/106423	m+p Xylene		0.49	2.0	
95-47-6	o-Xylene		0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09008.D
 Acq On : 31 Mar 2023 10:53 am
 Operator :
 Sample : 23C3284-06
 Misc : 1
 ALS Vial : 2 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 07:38:08 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.097	168	380329	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	572102	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.750	82	264013	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	228841	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.019	65	155952	24.75	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.00%
50) TOLUENE SS	6.484	98	541685	24.61	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.44%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	179825	24.40	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.60%
Target Compounds						
22) METHYLENE CHLORIDE	1.989	49	688	0.15	UG/L	Qvalue # 66

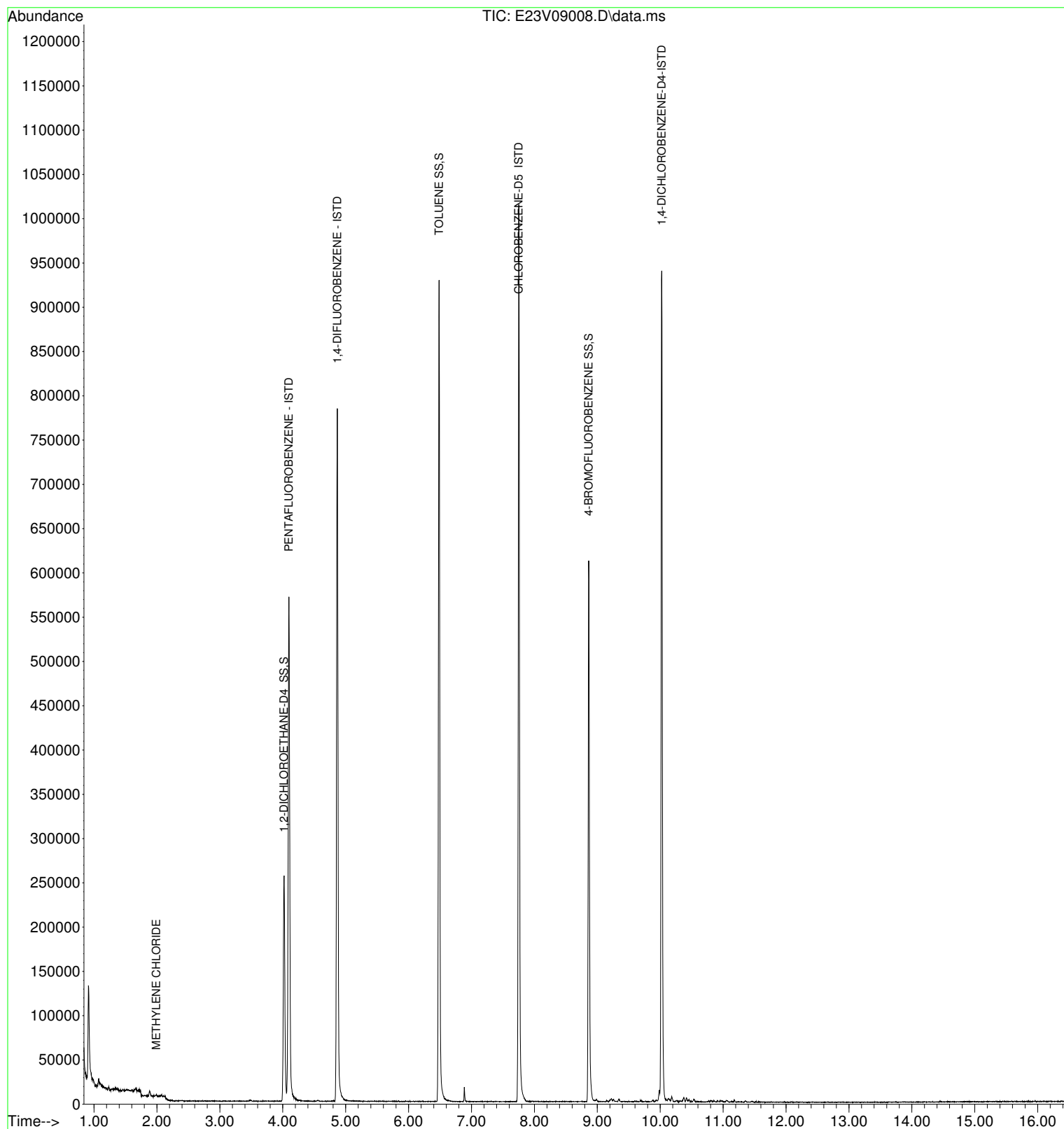
(#) = qualifier out of range (m) = manual integration (+) = signals summed

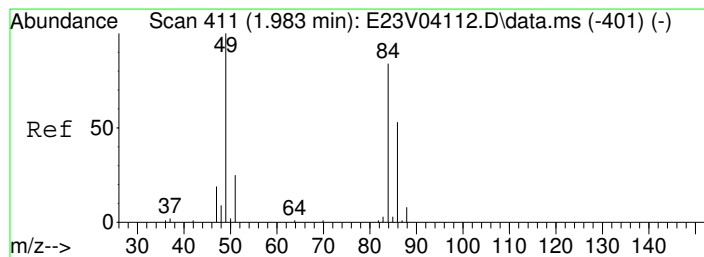
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09008.D
Acq On : 31 Mar 2023 10:53 am
Operator :
Sample : 23C3284-06
Misc : 1
ALS Vial : 2 Sample Multiplier: 1

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Inst : GCMSVOA5

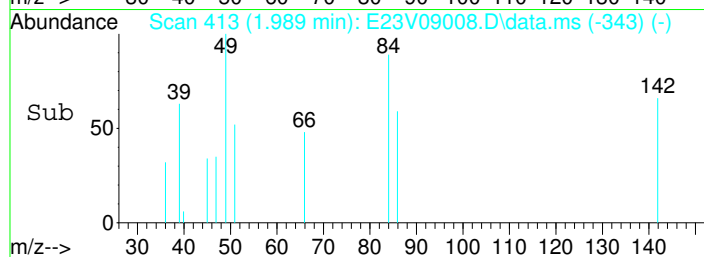
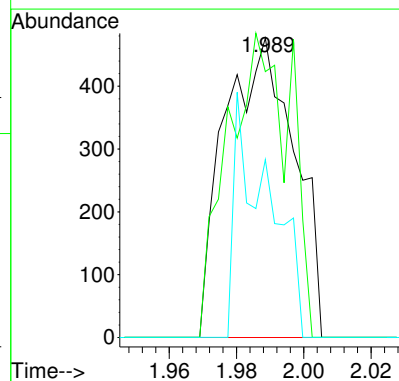
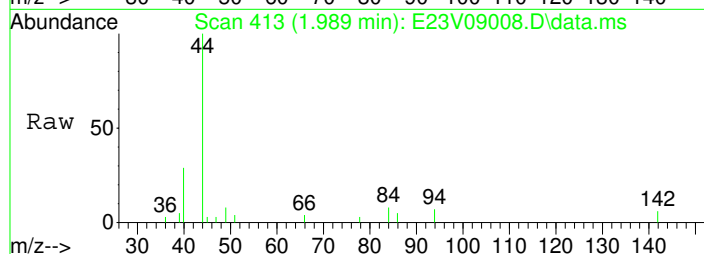
Quant Time: Apr 03 07:38:08 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration





#22
METHYLENE CHLORIDE
Concen: 0.15 UG/L
RT: 1.989 min Scan# 413
Delta R.T. 0.006 min
Lab File: E23V09008.D
Acq: 31 Mar 2023 10:53 am

Tgt Ion: 49 Resp: 688
Ion Ratio Lower Upper
49 100
84 90.3 74.0 111.0
86 0.0 49.6 74.4#



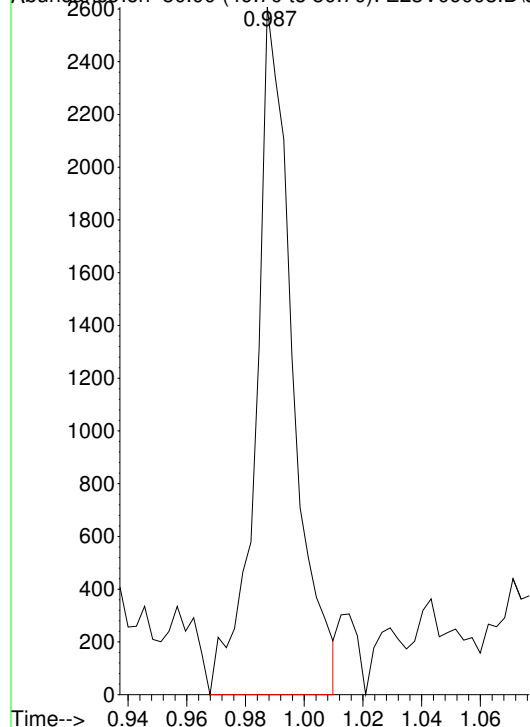
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09008.D
Acq On : 31 Mar 2023 10:53 am
Operator :
Sample : 23C3284-06
Misc : 1

Quant Time : Mon Apr 03 07:38:08 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09008.D



Original Int. Results

RT : 0.99
Area : 2246
Amount: 0.501866

Manual Int. Results

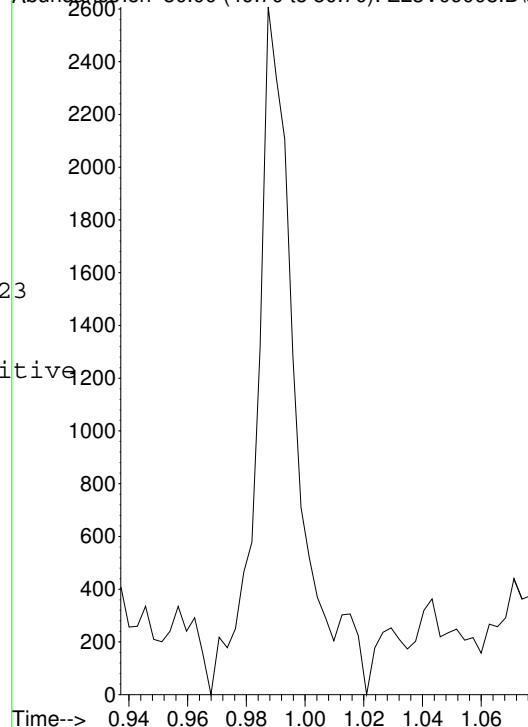
Mon Apr 03 07:37:46 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CHLOROMETHANE

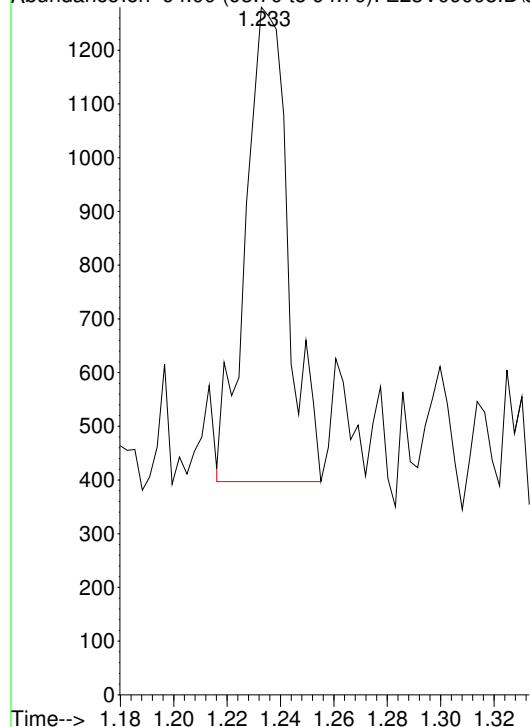
Abundance on 50.00 (49.70 to 50.70): E23V09008.D



Original Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09008.D



Original Int. Results

RT : 1.23
Area : 973
Amount: 0.383825

Manual Int. Results

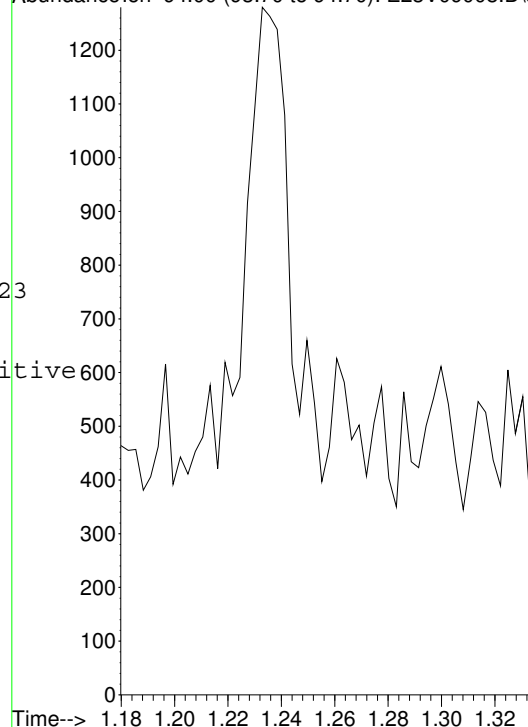
Mon Apr 03 07:37:48 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09008.D



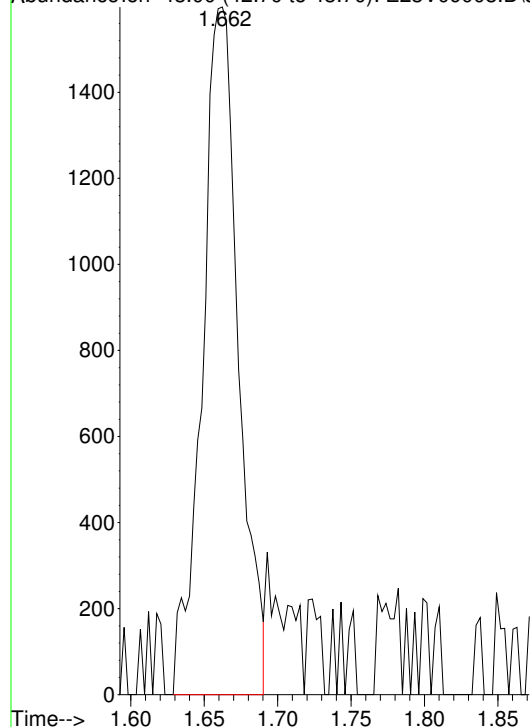
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09008.D
Acq On : 31 Mar 2023 10:53 am
Operator :
Sample : 23C3284-06
Misc : 1

Quant Time : Mon Apr 03 07:38:08 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

ACETONE

Abundance on 43.00 (42.70 to 43.70): E23V09008.D\



Original Int. Results

RT : 1.66
Area : 2739
Amount: 2.57422

Manual Int. Results

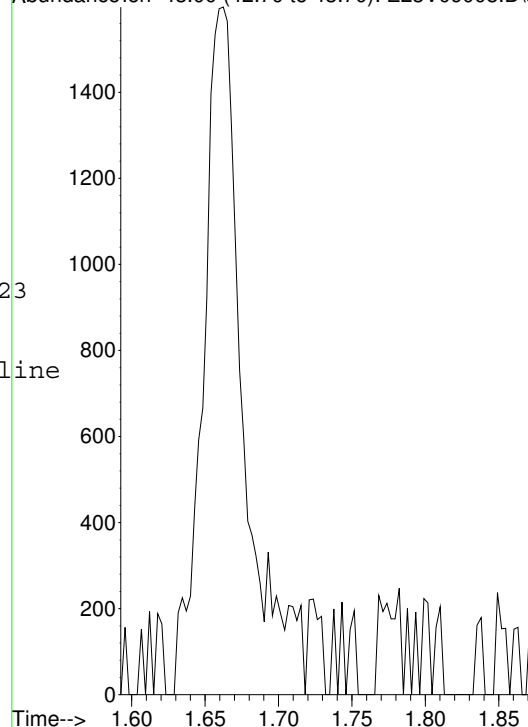
Mon Apr 03 07:37:51 2023

MIuser: eeh
Reason: Incorrect Baseline
RT : 0.00
Area : 0
Amount: 0

Manual Integration

ACETONE

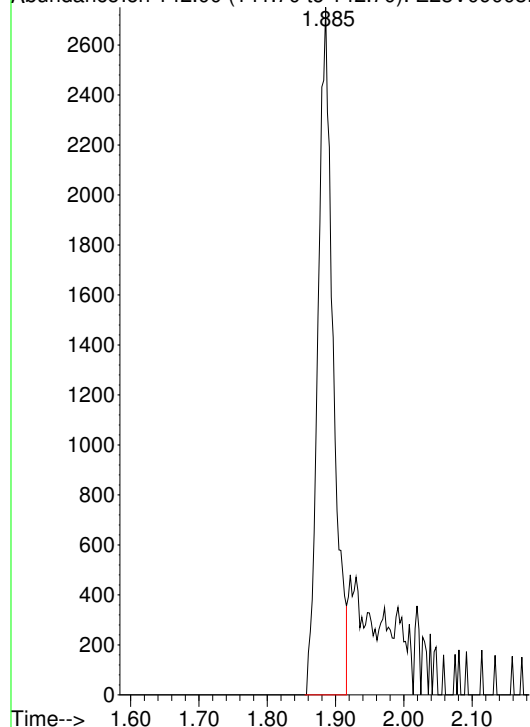
Abundance on 43.00 (42.70 to 43.70): E23V09008.D\



Original Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09008.I



Original Int. Results

RT : 1.89
Area : 4224
Amount: 0.87834

Manual Int. Results

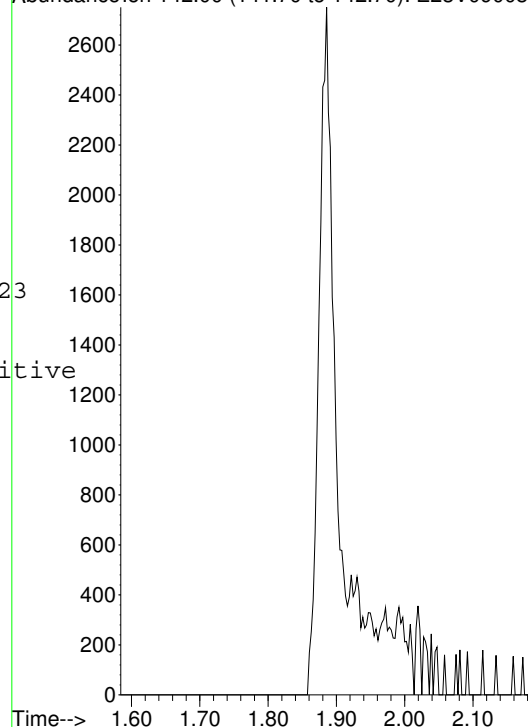
Mon Apr 03 07:37:52 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09008.I



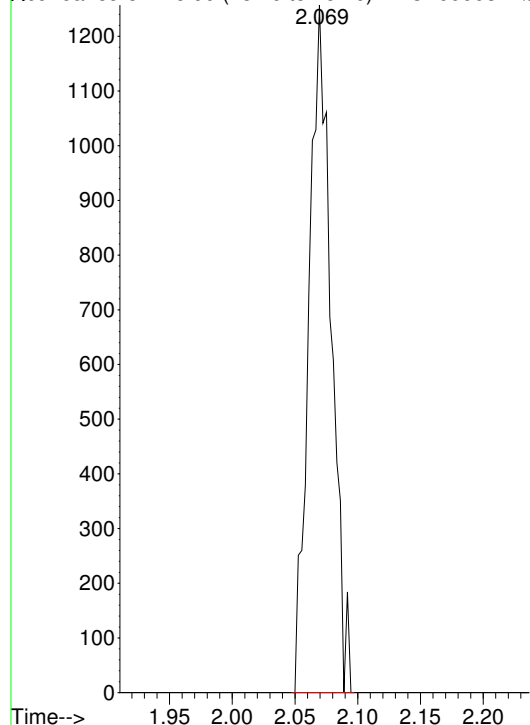
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09008.D
Acq On : 31 Mar 2023 10:53 am
Operator :
Sample : 23C3284-06
Misc : 1

Quant Time : Mon Apr 03 07:38:08 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09008.D



Original Int. Results

RT : 2.07
Area : 1551
Amount: 0.146127

Manual Int. Results

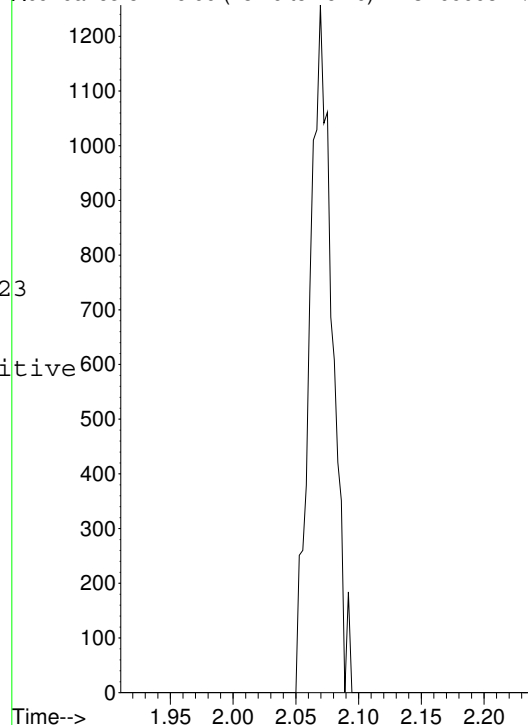
Mon Apr 03 07:37:56 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CARBON DISULFIDE

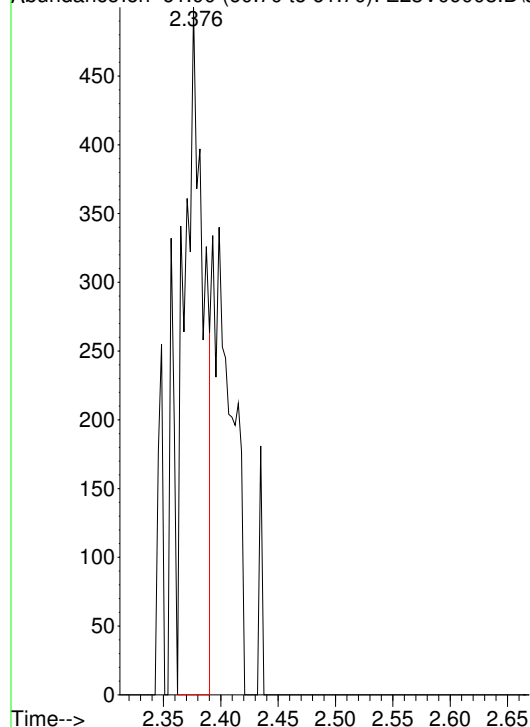
Abundance on 76.00 (75.70 to 76.70): E23V09008.D



Original Integration

TRANS 1,2-DICHLOROETHENE

Abundance on 61.00 (60.70 to 61.70): E23V09008.D



Original Int. Results

RT : 2.38
Area : 569
Amount: 0.11141

Manual Int. Results

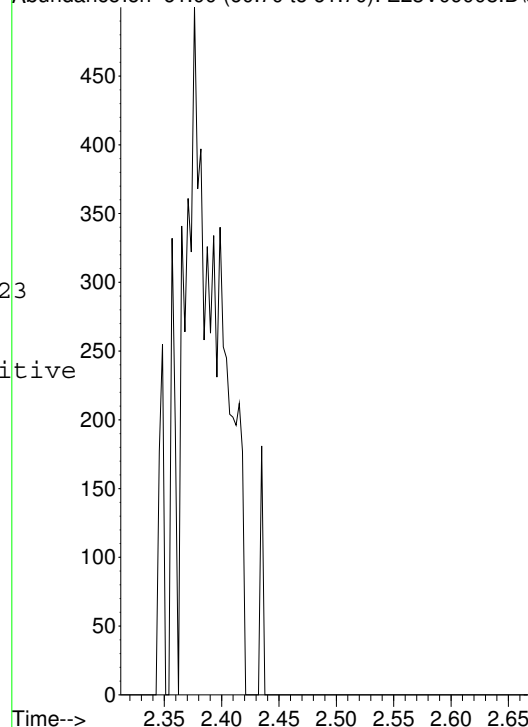
Mon Apr 03 07:37:58 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

TRANS 1,2-DICHLOROETHENE

Abundance on 61.00 (60.70 to 61.70): E23V09008.D



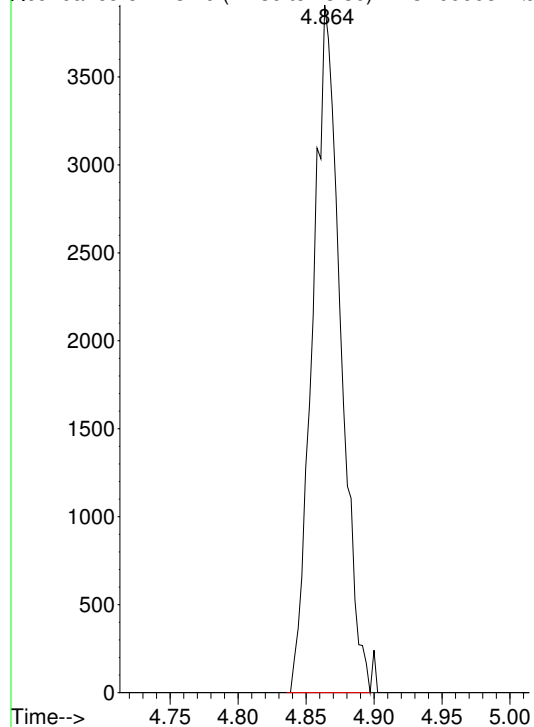
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09008.D
Acq On : 31 Mar 2023 10:53 am
Operator :
Sample : 23C3284-06
Misc : 1

Quant Time : Mon Apr 03 07:38:08 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09008.D



Original Int. Results

RT : 4.86
Area : 5604
Amount: 0.620225

Manual Int. Results

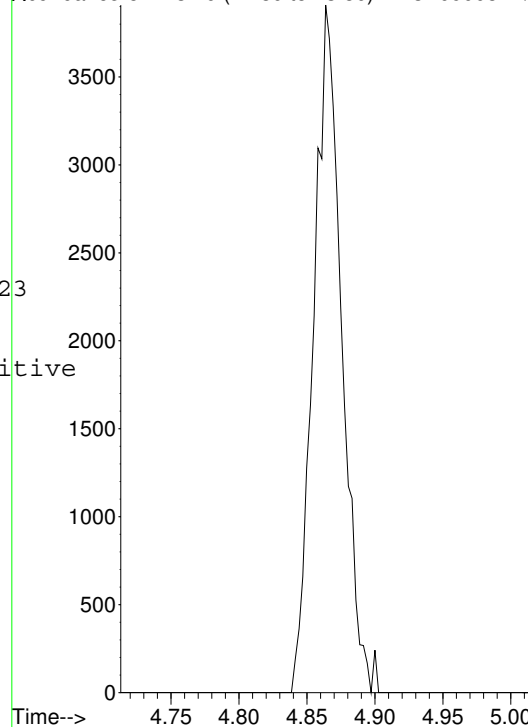
Mon Apr 03 07:38:02 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

T-AMYLMETHYL ETHER

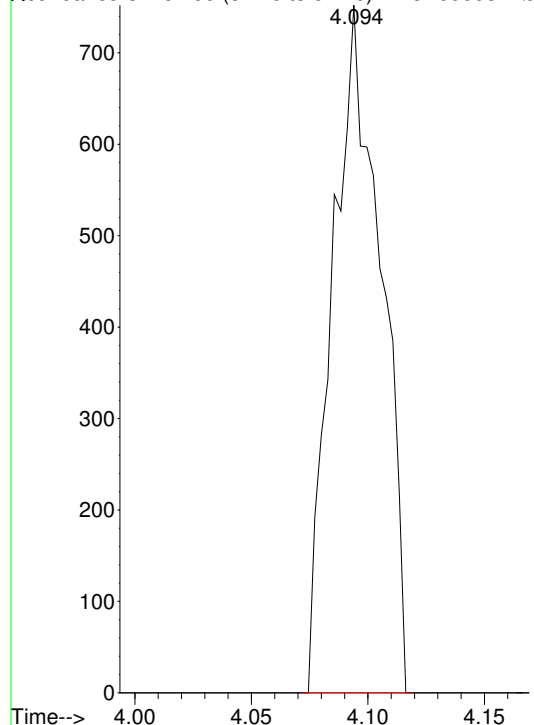
Abundance on 73.10 (72.80 to 73.80): E23V09008.D



Original Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09008.D



Original Int. Results

RT : 4.09
Area : 1090
Amount: 0.239622

Manual Int. Results

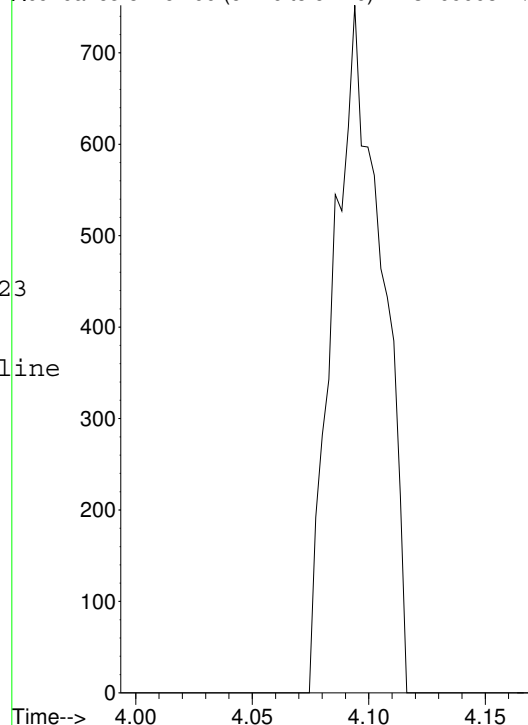
Mon Apr 03 07:38:04 2023

MIuser: eeh
Reason: Incorrect Baseline
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

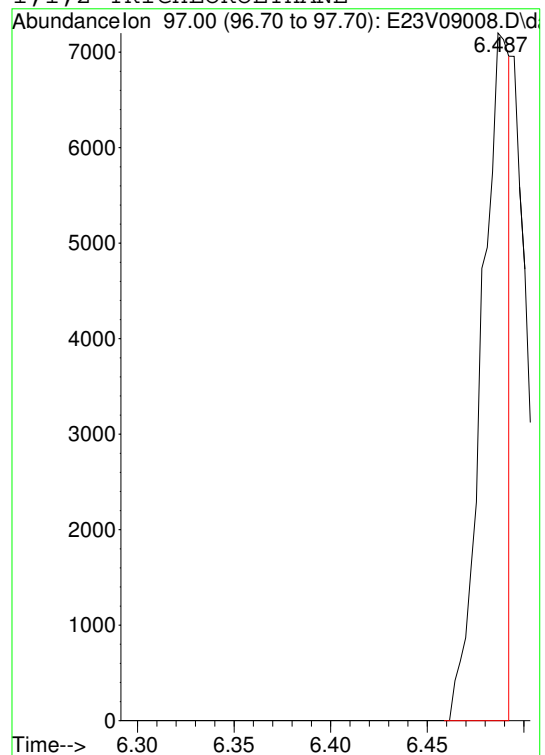
Abundance on 62.00 (61.70 to 62.70): E23V09008.D



Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09008.D
Acq On : 31 Mar 2023 10:53 am
Operator :
Sample : 23C3284-06
Misc : 1

Quant Time : Mon Apr 03 07:38:08 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration
1,1,2-TRICHLOROETHANE



Original Int. Results

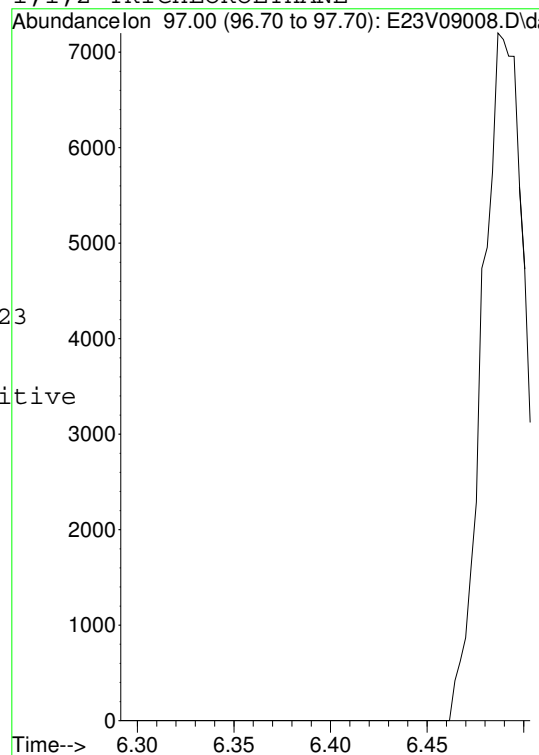
RT : 6.49
Area : 7116
Amount: 2.2751

Manual Int. Results

Mon Apr 03 07:38:07 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,1,2-TRICHLOROETHANE



1 - FORM I

ANALYSIS DATA SHEET

139

TripBlank_20230328

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Trip Blank Water	Laboratory ID:	23C3284-07
		File ID:	E23V09009.D
Sampled:	03/28/23 00:00	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 11:20
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
107-13-1	Acrylonitrile		0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.13	0.50	
71-43-2	Benzene		0.18	1.0	
108-86-1	Bromobenzene		0.15	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	V-05
78-93-3	2-Butanone (MEK)		1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)		4.3	20	
104-51-8	n-Butylbenzene		0.15	1.0	
135-98-8	sec-Butylbenzene		0.13	1.0	
98-06-6	tert-Butylbenzene		0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.15	0.50	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform	0.16	0.14	2.0	J
74-87-3	Chloromethane		0.50	2.0	
95-49-8	2-Chlorotoluene		0.15	1.0	
106-43-4	4-Chlorotoluene		0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
74-95-3	Dibromomethane		0.32	1.0	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

140

TripBlank_20230328

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Trip Blank Water	Laboratory ID:	23C3284-07
		File ID:	E23V09009.D
Sampled:	03/28/23 00:00	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 11:20
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
142-28-9	1,3-Dichloropropane		0.12	0.50	
594-20-7	2,2-Dichloropropane		0.35	1.0	
563-58-6	1,1-Dichloropropene		0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
60-29-7	Diethyl Ether		0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)		0.20	0.50	
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
87-68-3	Hexachlorobutadiene		0.47	0.60	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.13	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride	0.18	0.18	5.0	J
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
91-20-3	Naphthalene		0.38	2.0	
103-65-1	n-Propylbenzene		0.12	1.0	
100-42-5	Styrene		0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane		0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

141

TripBlank_20230328

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Trip Blank Water	Laboratory ID:	23C3284-07
		File ID:	E23V09009.D
Sampled:	03/28/23 00:00	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 11:20
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
109-99-9	Tetrahydrofuran		0.49	10	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene		0.21	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
96-18-4	1,2,3-Trichloropropane		0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.15	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
108383/106423	m+p Xylene		0.49	2.0	
95-47-6	o-Xylene		0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09009.D
 Acq On : 31 Mar 2023 11:20 am
 Operator :
 Sample : 23C3284-07
 Misc : 1
 ALS Vial : 3 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 07:38:46 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

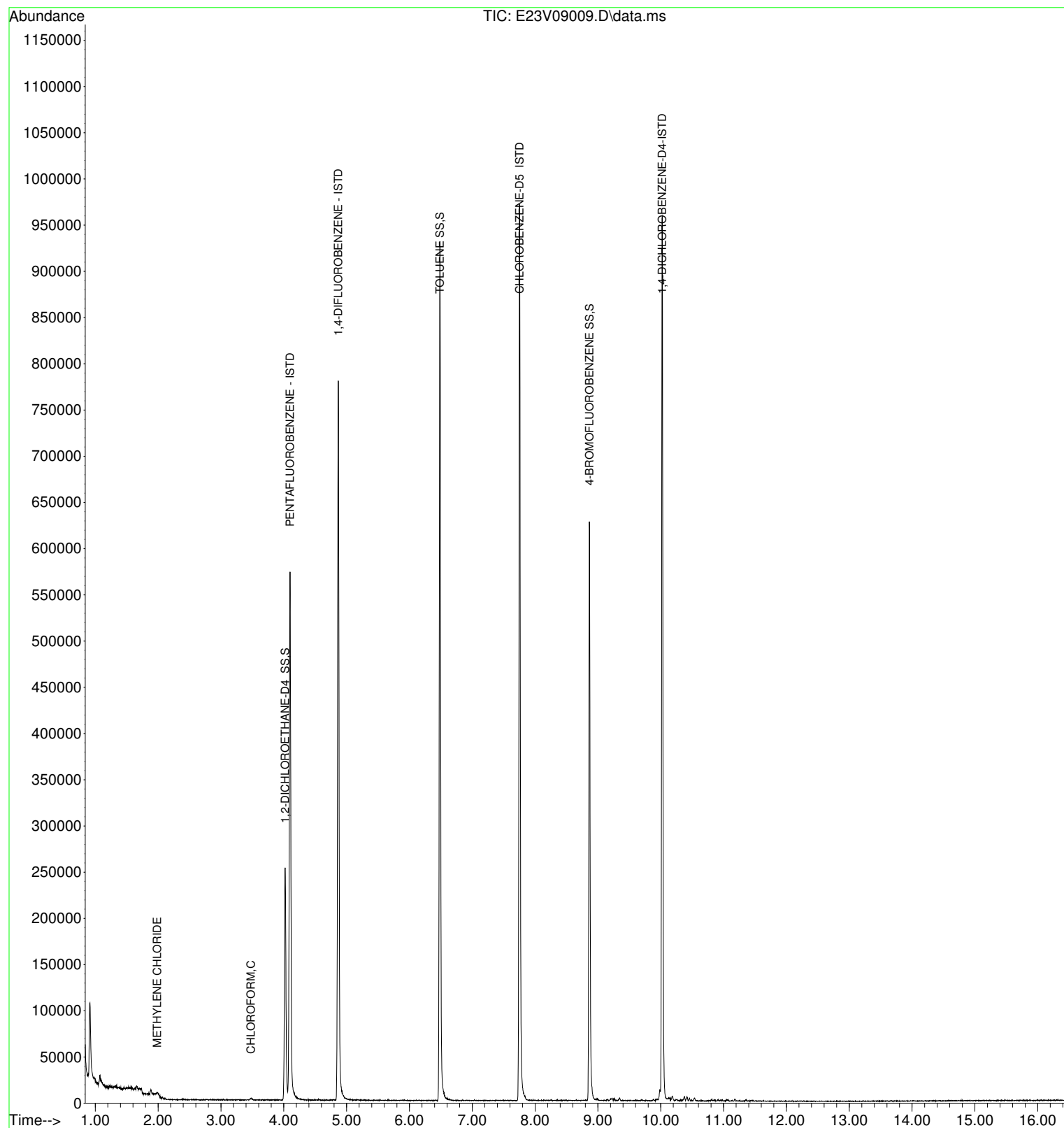
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.099	168	379519	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	570002	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	260706	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.020	152	229336	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	155079	24.66	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.64%
50) TOLUENE SS	6.484	98	536359	24.46	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.84%
72) 4-BROMOFLUOROBENZENE SS	8.865	95	180199	24.77	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.08%
Target Compounds						
22) METHYLENE CHLORIDE	1.986	49	789	0.18	UG/L	Qvalue # 64
40) CHLOROFORM	3.475	83	1037m	0.16	UG/L	

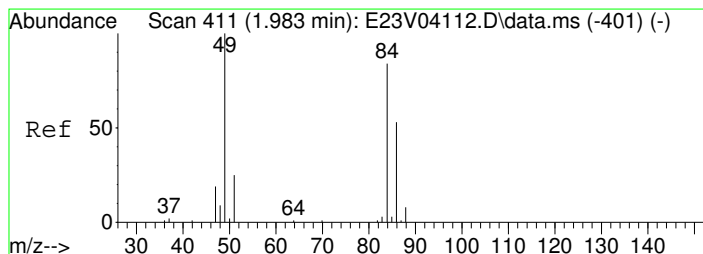
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09009.D
Acq On : 31 Mar 2023 11:20 am
Operator :
Sample : 23C3284-07
Misc : 1
ALS Vial : 3 Sample Multiplier: 1

Inst : GCMSVOA5

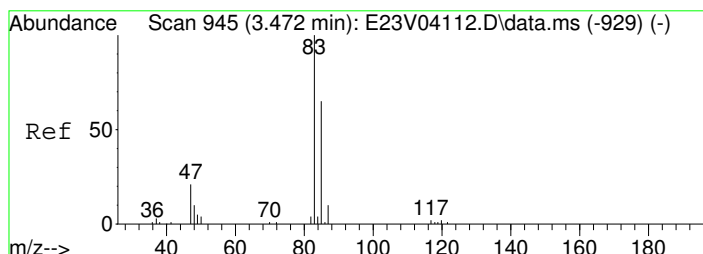
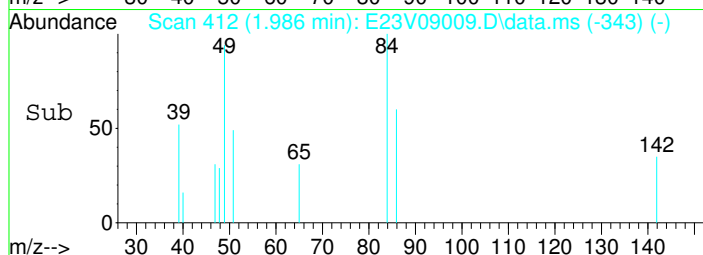
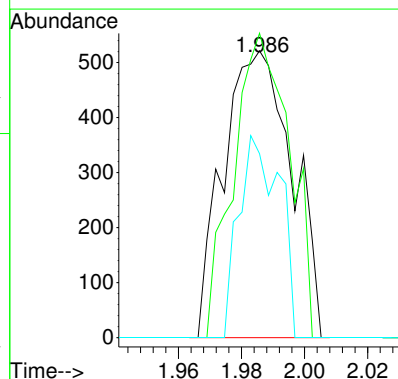
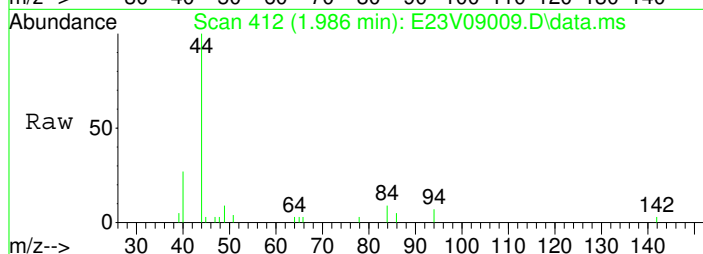
Quant Time: Apr 03 07:38:46 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration





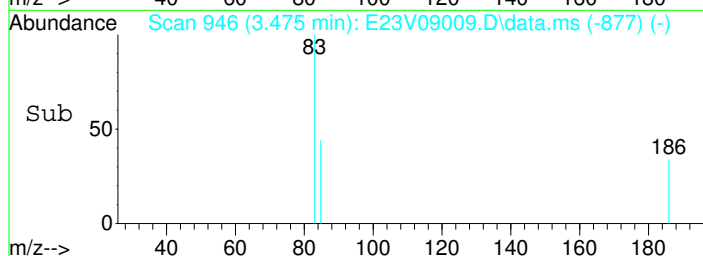
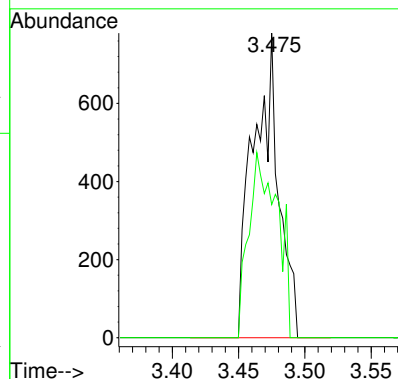
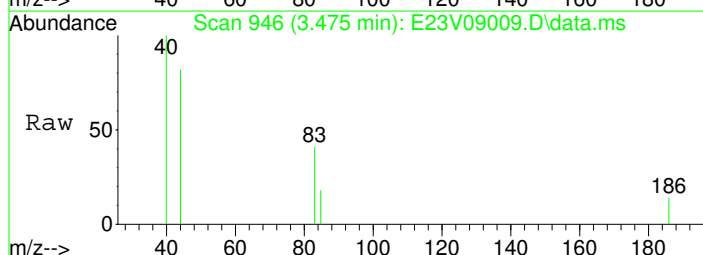
#22
METHYLENE CHLORIDE
Concen: 0.18 UG/L
RT: 1.986 min Scan# 412
Delta R.T. 0.003 min
Lab File: E23V09009.D
Acq: 31 Mar 2023 11:20 am

Tgt Ion	Ratio	Lower	Upper
49	100		
84	86.3	74.0	111.0
86	0.0	49.6	74.4#



#40
CHLOROFORM
Concen: 0.16 UG/L m
RT: 3.475 min Scan# 946
Delta R.T. 0.003 min
Lab File: E23V09009.D
Acq: 31 Mar 2023 11:20 am

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.9	51.9	77.9

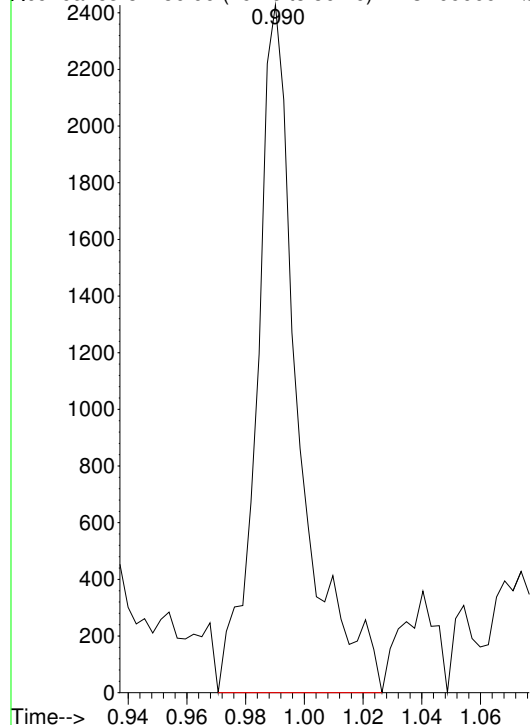


Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09009.D
Acq On : 31 Mar 2023 11:20 am
Operator :
Sample : 23C3284-07
Misc : 1

Quant Time : Mon Apr 03 07:38:46 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration
CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09009.D



Original Int. Results

RT : 0.99
Area : 2382
Amount: 0.533392

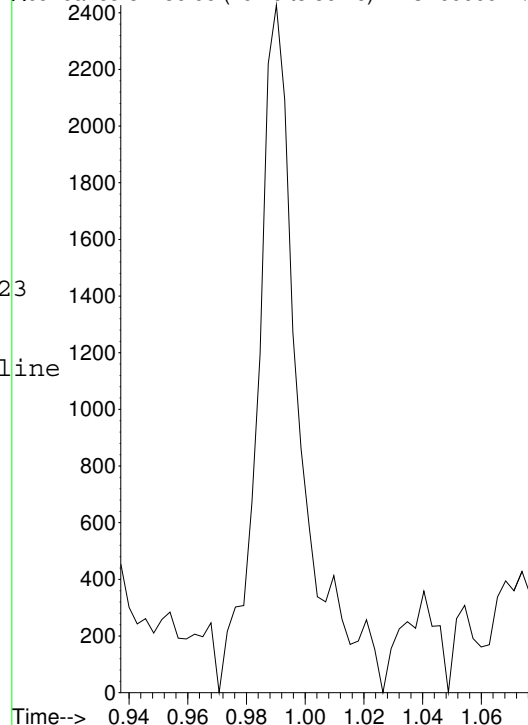
Manual Int. Results

Mon Apr 03 07:38:21 2023

MIuser: eeh
Reason: Incorrect Baseline
RT : 0.00
Area : 0
Amount: 0

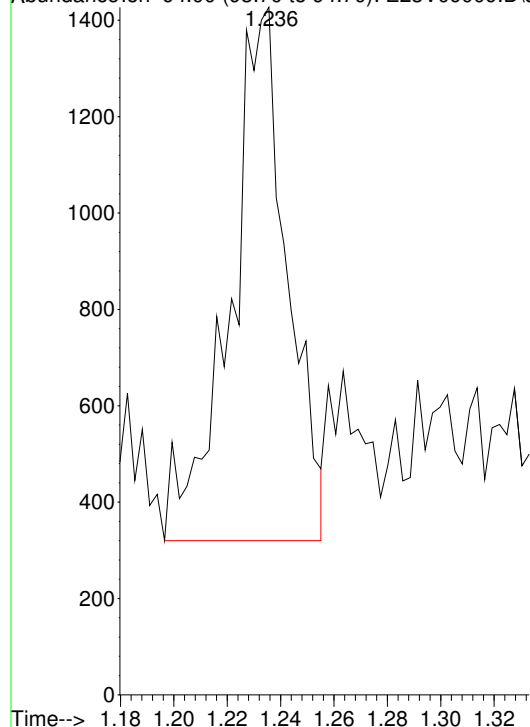
Manual Integration
CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09009.D



Original Integration
BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09009.D



Original Int. Results

RT : 1.24
Area : 1647
Amount: 0.651088

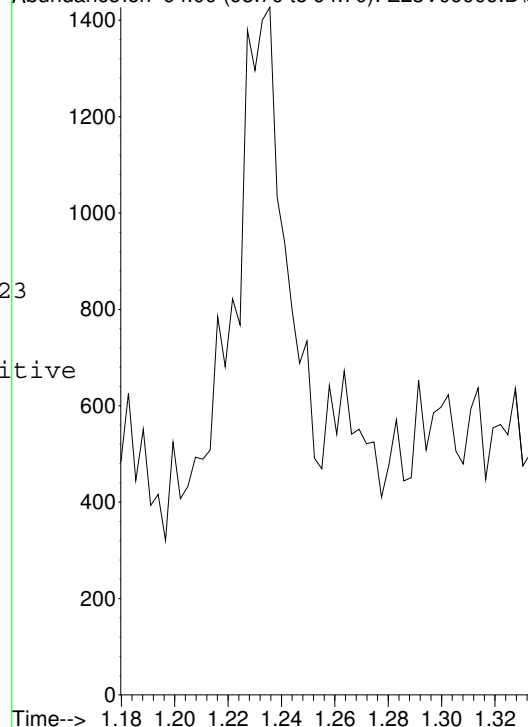
Manual Int. Results

Mon Apr 03 07:38:23 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09009.D



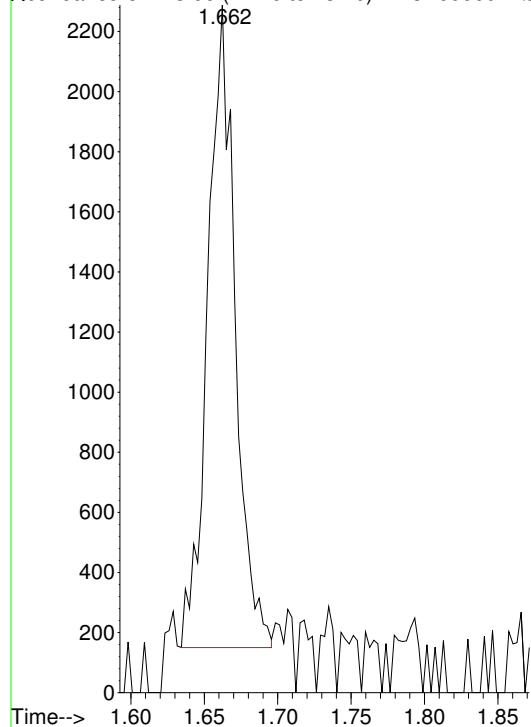
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09009.D
Acq On : 31 Mar 2023 11:20 am
Operator :
Sample : 23C3284-07
Misc : 1

Quant Time : Mon Apr 03 07:38:46 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

ACETONE

Abundance on 43.00 (42.70 to 43.70): E23V09009.D



Original Int. Results

RT : 1.66
Area : 2766
Amount: 2.60515

Manual Int. Results

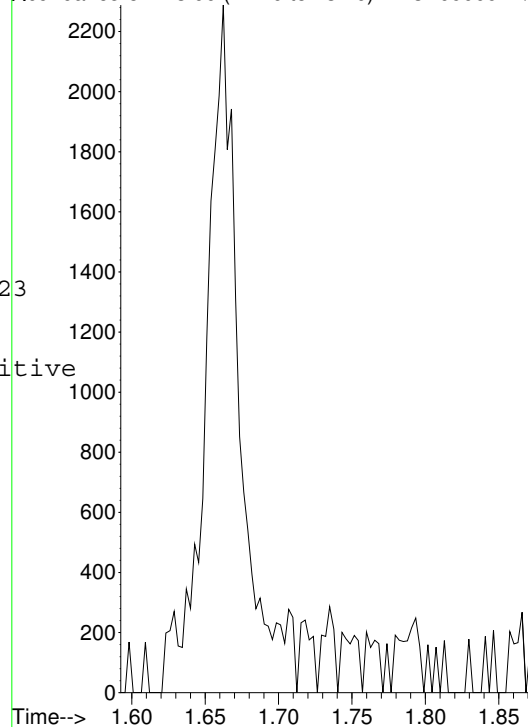
Mon Apr 03 07:38:27 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

ACETONE

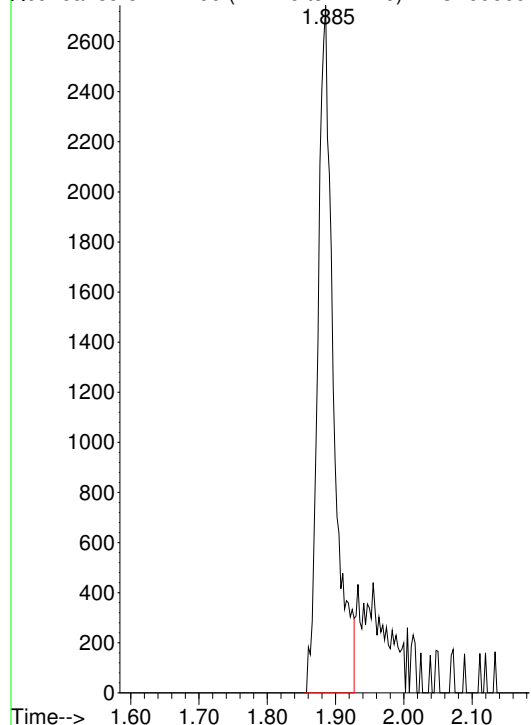
Abundance on 43.00 (42.70 to 43.70): E23V09009.D



Original Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09009.D



Original Int. Results

RT : 1.89
Area : 4345
Amount: 0.905429

Manual Int. Results

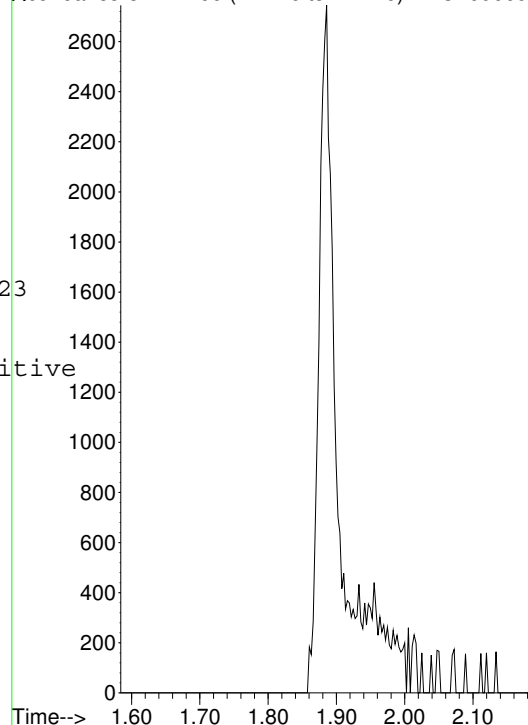
Mon Apr 03 07:38:29 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09009.D



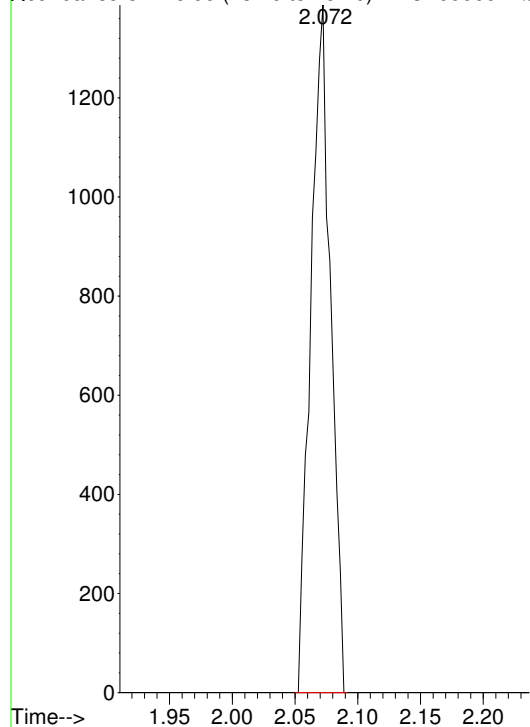
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09009.D
Acq On : 31 Mar 2023 11:20 am
Operator :
Sample : 23C3284-07
Misc : 1

Quant Time : Mon Apr 03 07:38:46 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09009.D



Original Int. Results

RT : 2.07
Area : 1528
Amount: 0.144267

Manual Int. Results

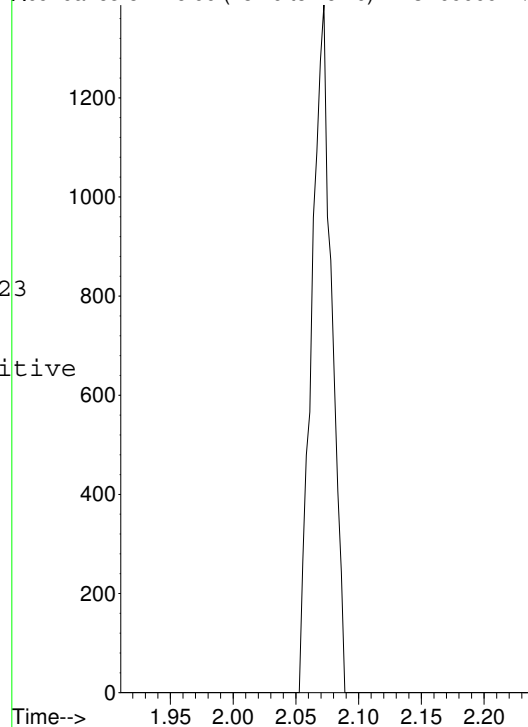
Mon Apr 03 07:38:32 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CARBON DISULFIDE

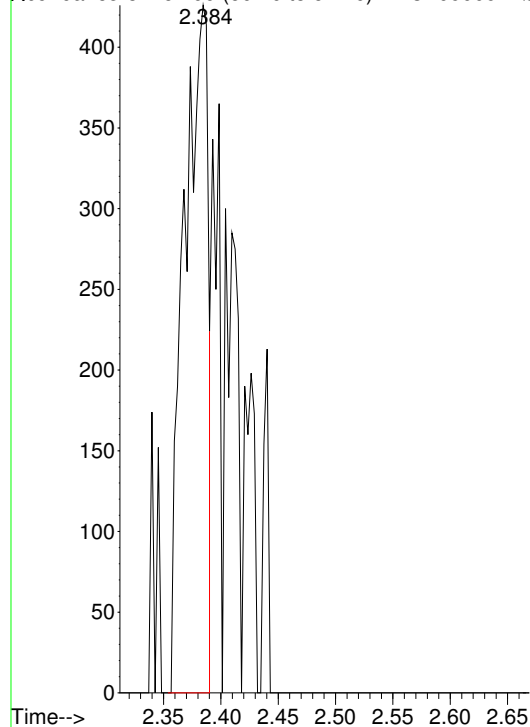
Abundance on 76.00 (75.70 to 76.70): E23V09009.D



Original Integration

TRANS 1,2-DICHLOROETHENE

Abundance on 61.00 (60.70 to 61.70): E23V09009.D



Original Int. Results

RT : 2.38
Area : 622
Amount: 0.122047

Manual Int. Results

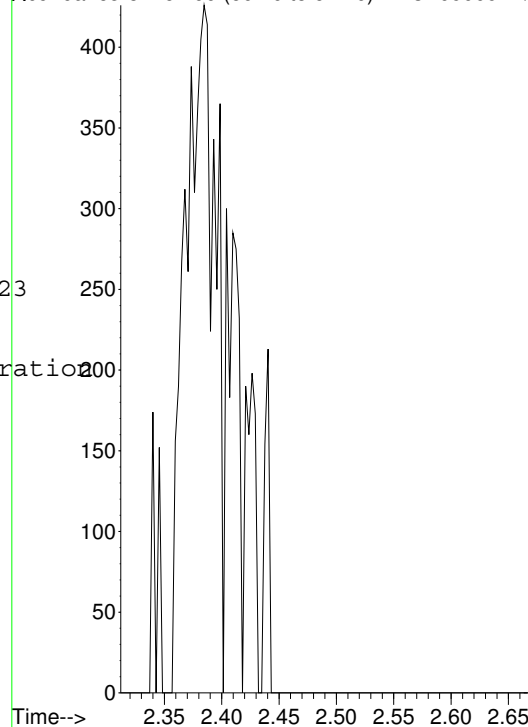
Mon Apr 03 07:38:35 2023

MIuser: eeh
Reason: Incoret Integratio
RT : 0.00
Area : 0
Amount: 0

Manual Integration

TRANS 1,2-DICHLOROETHENE

Abundance on 61.00 (60.70 to 61.70): E23V09009.D

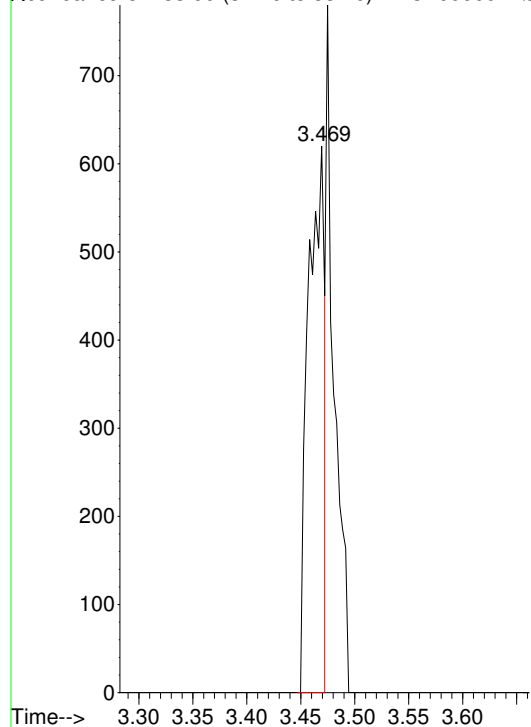


Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09009.D
Acq On : 31 Mar 2023 11:20 am
Operator :
Sample : 23C3284-07
Misc : 1

Quant Time : Mon Apr 03 07:38:46 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration
CHLOROFORM

Abundance on 83.00 (82.70 to 83.70): E23V09009.D



Original Int. Results

RT : 3.47
Area : 635
Amount: 0.0966836

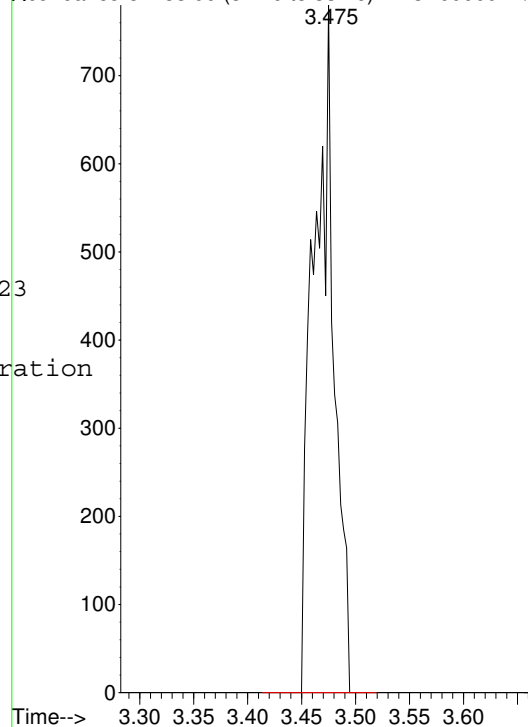
Manual Int. Results

Mon Apr 03 07:38:39 2023

MIuser: eeh
Reason: Incoret Integration
RT : 3.47
Area : 1037
Amount: 0.157891

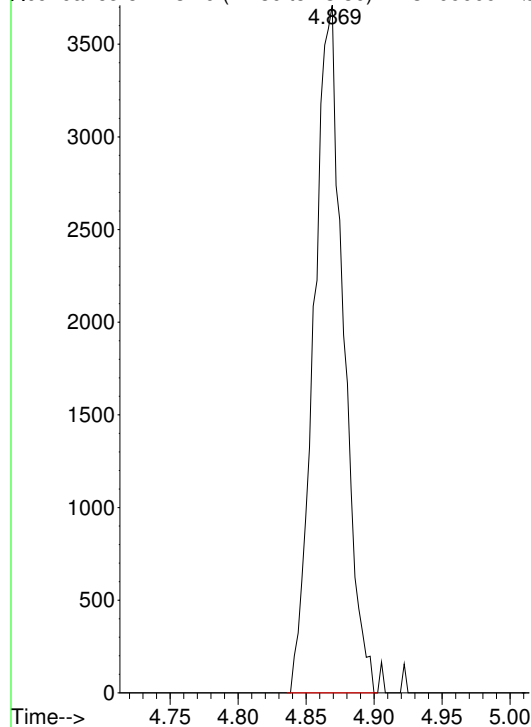
Manual Integration
CHLOROFORM

Abundance on 83.00 (82.70 to 83.70): E23V09009.D



Original Integration
T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09009.D



Original Int. Results

RT : 4.87
Area : 5598
Amount: 0.620883

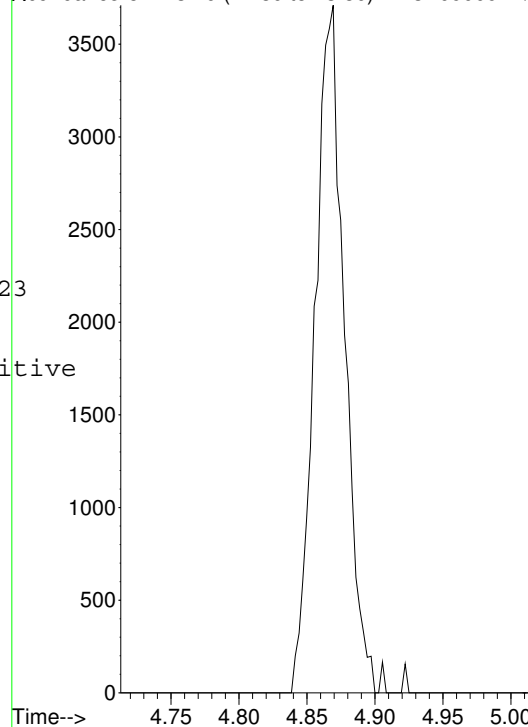
Manual Int. Results

Mon Apr 03 07:38:42 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09009.D



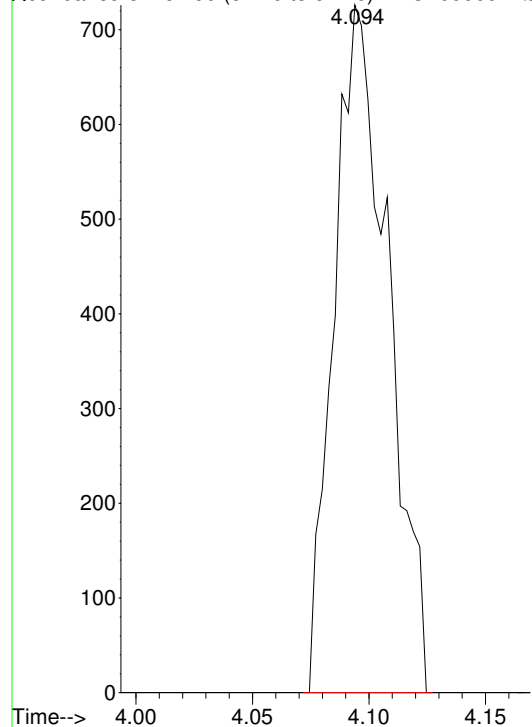
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09009.D
Acq On : 31 Mar 2023 11:20 am
Operator :
Sample : 23C3284-07
Misc : 1

Quant Time : Mon Apr 03 07:38:46 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09009.D.d



Original Int. Results

RT : 4.09
Area : 1174
Amount: 0.259039

Manual Int. Results

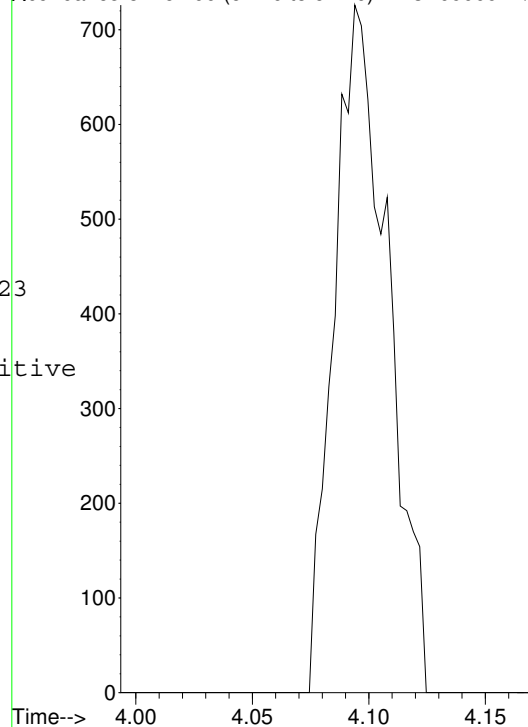
Mon Apr 03 07:38:45 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09009.D.d



1 - FORM I ANALYSIS DATA SHEET

150

MW-X

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-08
		File ID:	E23V09016.D
Sampled:	03/28/23 00:00	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 14:31
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
107-13-1	Acrylonitrile		0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.13	0.50	
71-43-2	Benzene		0.18	1.0	
108-86-1	Bromobenzene		0.15	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	V-05
78-93-3	2-Butanone (MEK)		1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)		4.3	20	
104-51-8	n-Butylbenzene		0.15	1.0	
135-98-8	sec-Butylbenzene		0.13	1.0	
98-06-6	tert-Butylbenzene		0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.15	0.50	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
95-49-8	2-Chlorotoluene		0.15	1.0	
106-43-4	4-Chlorotoluene		0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
74-95-3	Dibromomethane		0.32	1.0	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

151

MW-X

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-08
		File ID:	E23V09016.D
Sampled:	03/28/23 00:00	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 14:31
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane	0.34	0.14	1.0	J
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene	0.25	0.14	1.0	J
156-59-2	cis-1,2-Dichloroethylene	1.5	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
142-28-9	1,3-Dichloropropane		0.12	0.50	
594-20-7	2,2-Dichloropropane		0.35	1.0	
563-58-6	1,1-Dichloropropene		0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
60-29-7	Diethyl Ether		0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)		0.20	0.50	
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
87-68-3	Hexachlorobutadiene		0.47	0.60	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.13	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
91-20-3	Naphthalene		0.38	2.0	
103-65-1	n-Propylbenzene		0.12	1.0	
100-42-5	Styrene		0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane		0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

152

MW-X

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessmer	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-08
		File ID:	E23V09016.D
Sampled:	03/28/23 00:00	Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 14:31
Solids:		Preparation:	SW-846 5030B
		Dilution:	1
Initial/Final:	5 mL / 5 mL		
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene	2.9	0.17	1.0	
109-99-9	Tetrahydrofuran		0.49	10	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene		0.21	1.0	
71-55-6	1,1,1-Trichloroethane	10	0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene	39	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
96-18-4	1,2,3-Trichloropropane		0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.41	0.21	1.0	J
95-63-6	1,2,4-Trimethylbenzene		0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.15	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
108383/106423	m+p Xylene		0.49	2.0	
95-47-6	o-Xylene		0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09016.D
 Acq On : 31 Mar 2023 2:31 pm
 Operator :
 Sample : 23C3284-08
 Misc : 1
 ALS Vial : 10 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 07:43:18 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

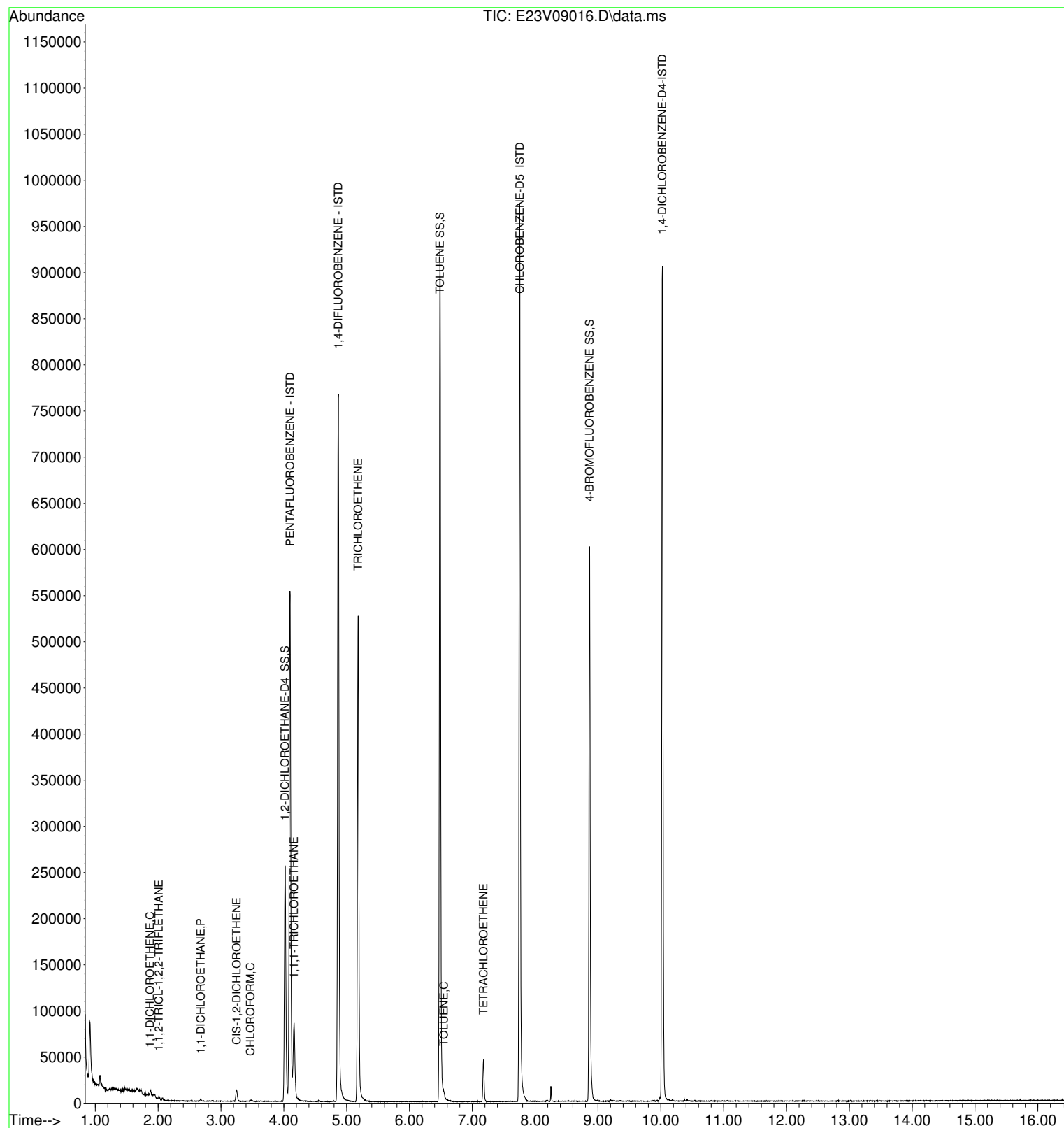
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.097	168	372130	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	567834	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	262451	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.020	152	223687	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.019	65	156642	25.40	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.60%
50) TOLUENE SS	6.484	98	534775	24.48	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.92%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	175366	23.94	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.76%
Target Compounds						
					Qvalue	
15) 1,1-DICHLOROETHENE	1.869	61	1204	0.25	UG/L #	71
16) 1,1,2-TRICL-1,2,2-TRIF...	2.011	101	1535	0.41	UG/L #	8
26) 1,1-DICHLOROETHANE	2.677	63	2117	0.34	UG/L #	88
34) CIS-1,2-DICHLOROETHENE	3.249	61	7139	1.49	UG/L	91
40) CHLOROFORM	3.469	83	580	0.09	UG/L #	18
42) 1,1,1-TRICHLOROETHANE	4.164	97	49478	10.19	UG/L	95
53) TRICHLOROETHENE	5.182	95	150475	38.94	UG/L	95
62) TOLUENE	6.545	91	2529	0.17	UG/L	100
67) TETRACHLOROETHENE	7.175	166	11835	2.93	UG/L	99

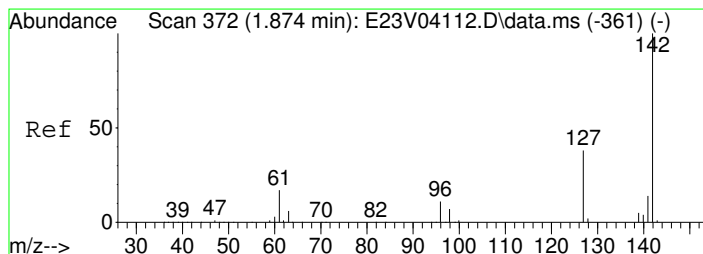
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09016.D
Acq On : 31 Mar 2023 2:31 pm
Operator :
Sample : 23C3284-08
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Inst : GCMSVOA5

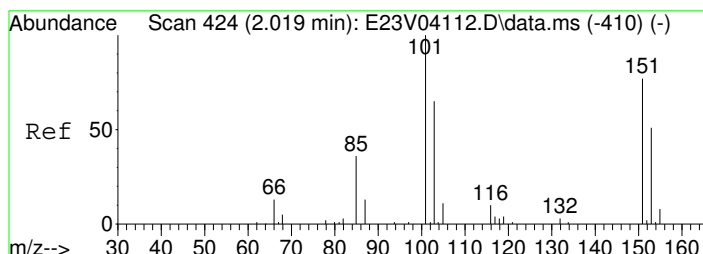
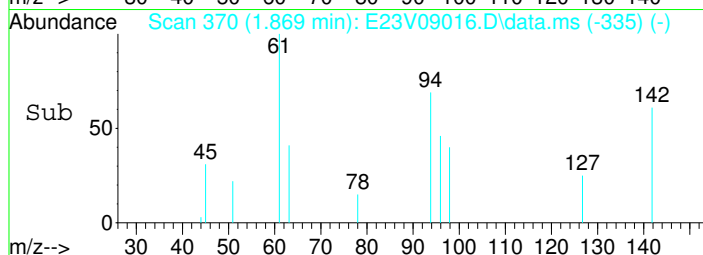
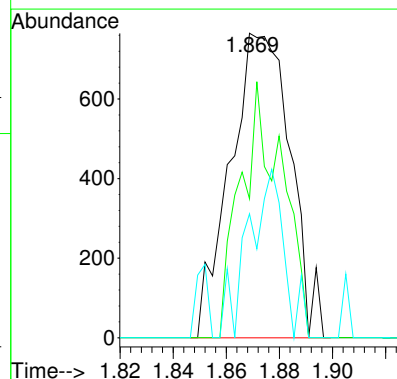
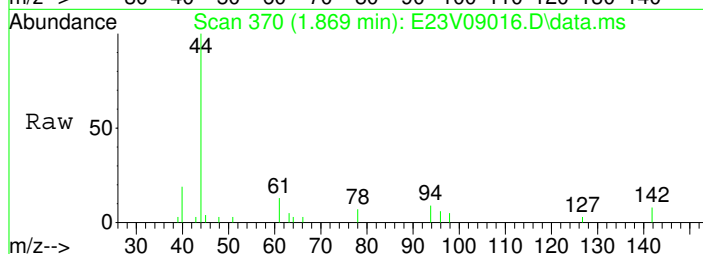
Quant Time: Apr 03 07:43:18 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration





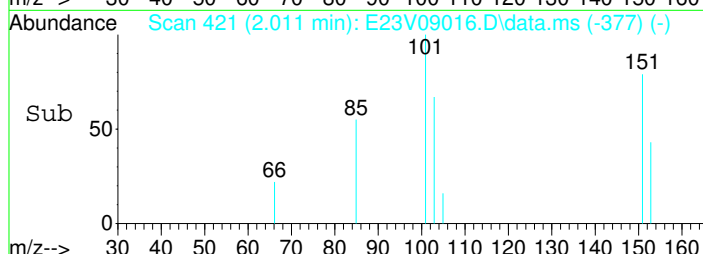
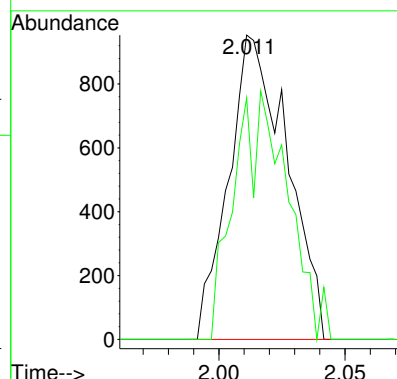
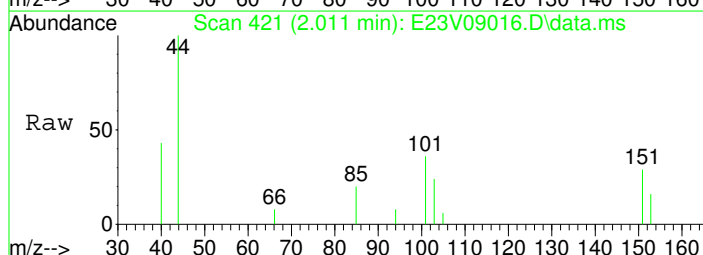
#15
1,1-DICHLOROETHENE
Concen: 0.25 UG/L
RT: 1.869 min Scan# 370
Delta R.T. -0.005 min
Lab File: E23V09016.D
Acq: 31 Mar 2023 2:31 pm

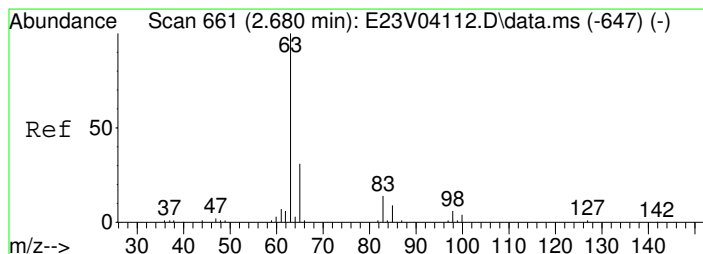
Tgt Ion:	61	Resp:	1204
Ion Ratio	Lower	Upper	
61	100		
96	58.2	55.8	83.8
63	0.0	26.9	40.3#



#16
1,1,2-TRICL-1,2,2-TRIFLETHANE
Concen: 0.41 UG/L
RT: 2.011 min Scan# 421
Delta R.T. -0.008 min
Lab File: E23V09016.D
Acq: 31 Mar 2023 2:31 pm

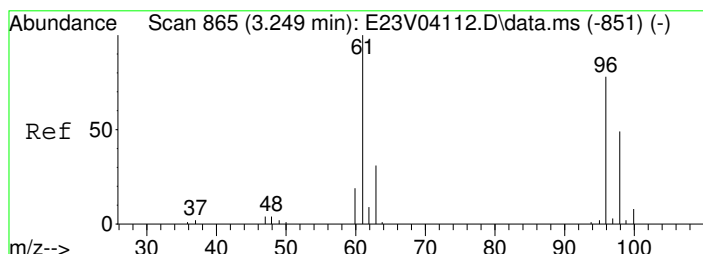
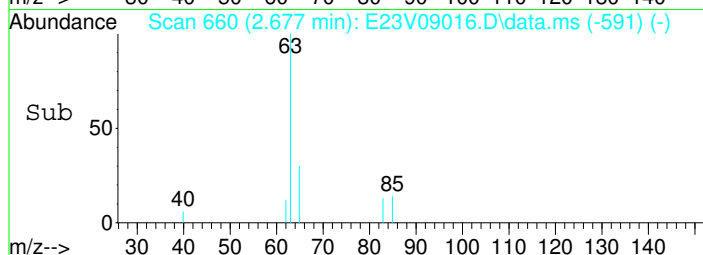
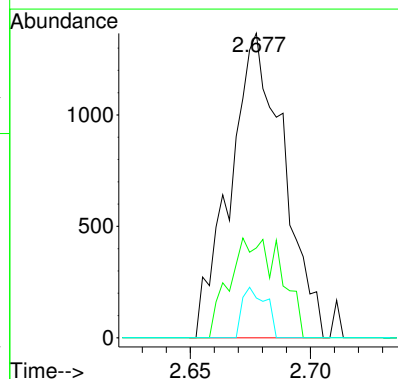
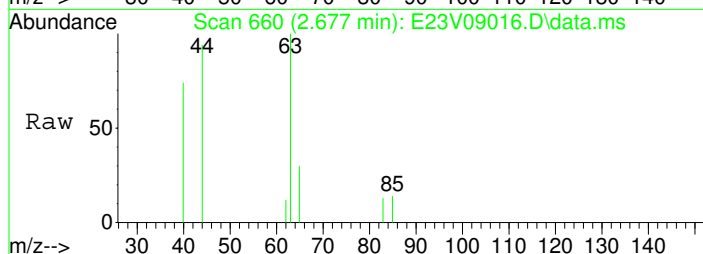
Tgt Ion:	101	Resp:	1535
Ion Ratio	Lower	Upper	
101	100		
151	0.0	66.1	99.1#





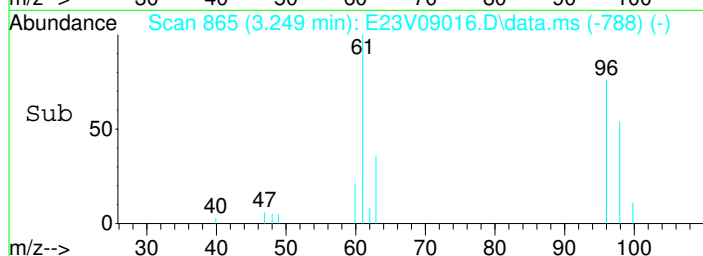
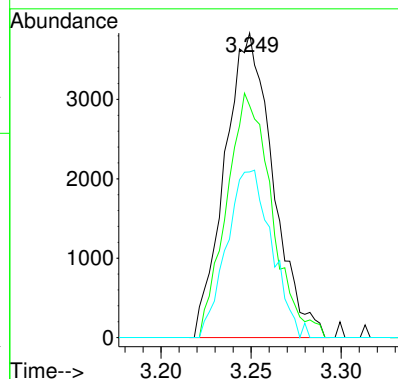
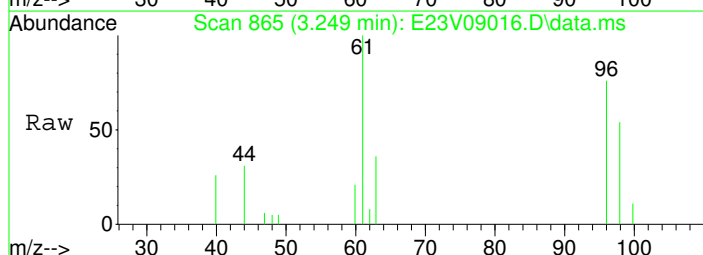
#26
 1,1-DICHLOROETHANE
 Concen: 0.34 UG/L
 RT: 2.677 min Scan# 660
 Delta R.T. -0.003 min
 Lab File: E23V09016.D
 Acq: 31 Mar 2023 2:31 pm

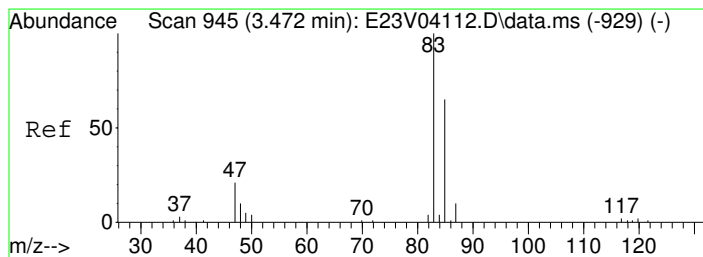
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.7	38.5
83	0.0	12.0	18.0#



#34
 CIS-1,2-DICHLOROETHENE
 Concen: 1.49 UG/L
 RT: 3.249 min Scan# 865
 Delta R.T. 0.000 min
 Lab File: E23V09016.D
 Acq: 31 Mar 2023 2:31 pm

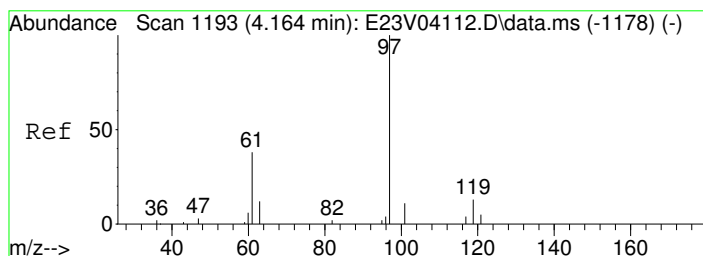
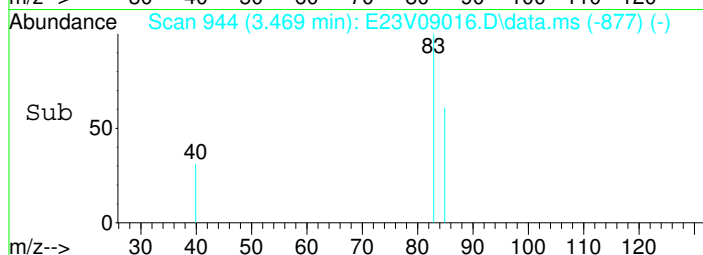
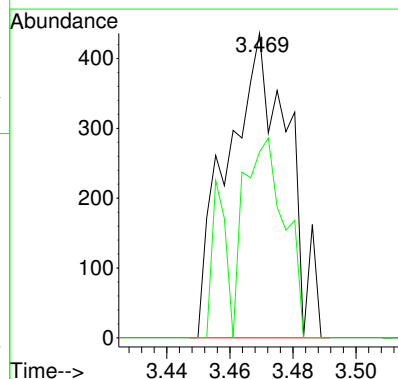
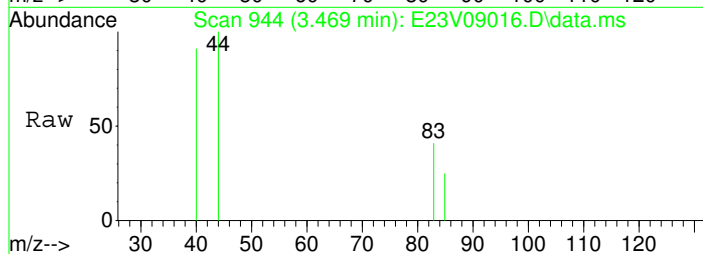
Tgt Ion	Ratio	Lower	Upper
61	100		
96	75.2	68.8	103.2
98	51.2	43.9	65.9





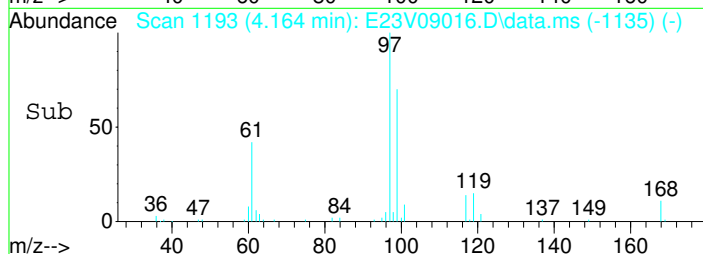
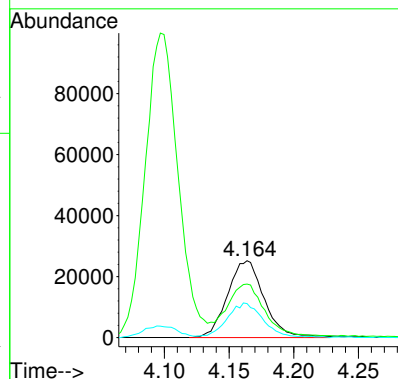
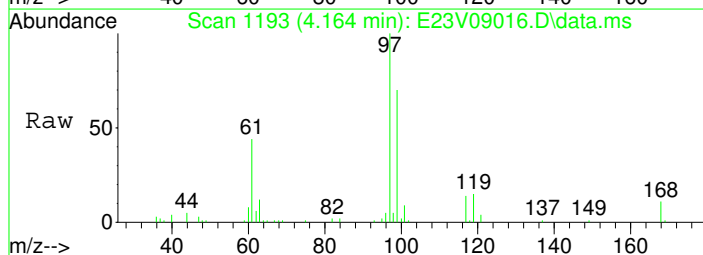
#40
CHLOROFORM
Concen: 0.09 UG/L
RT: 3.469 min Scan# 944
Delta R.T. -0.003 min
Lab File: E23V09016.D
Acq: 31 Mar 2023 2:31 pm

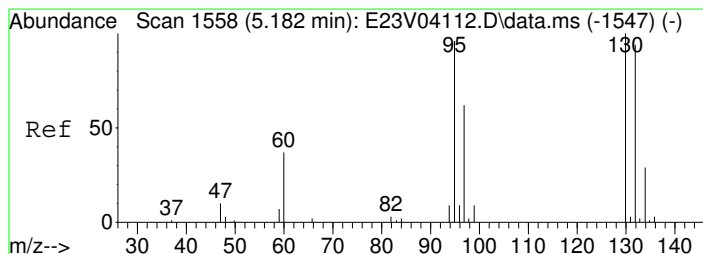
Tgt Ion: 83 Resp: 580
Ion Ratio Lower Upper
83 100
85 0.0 51.9 77.9#



#42
1,1,1-TRICHLOROETHANE
Concen: 10.19 UG/L
RT: 4.164 min Scan# 1193
Delta R.T. -0.000 min
Lab File: E23V09016.D
Acq: 31 Mar 2023 2:31 pm

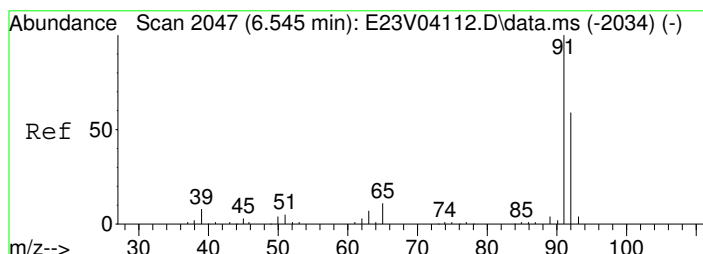
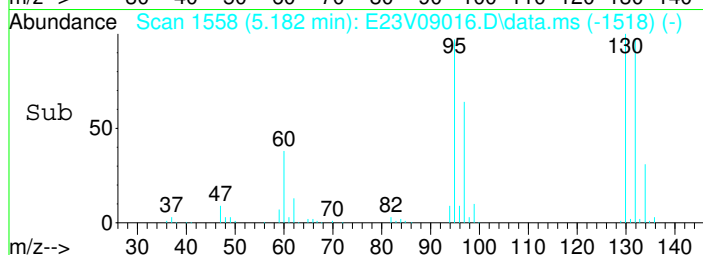
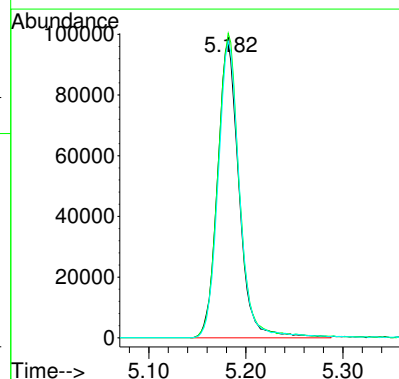
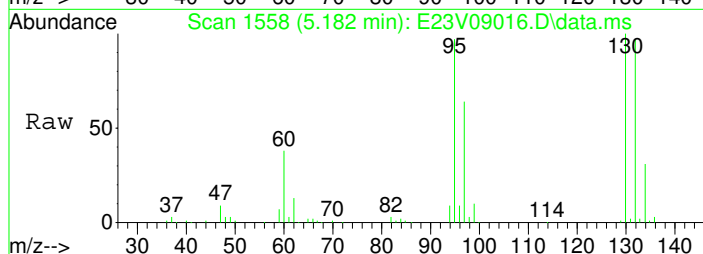
Tgt Ion: 97 Resp: 49478
Ion Ratio Lower Upper
97 100
99 68.7 51.6 77.4
61 44.3 32.7 49.1





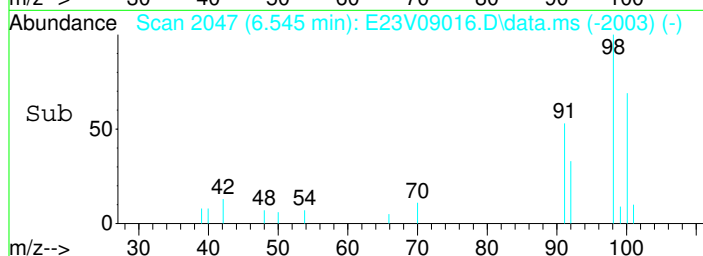
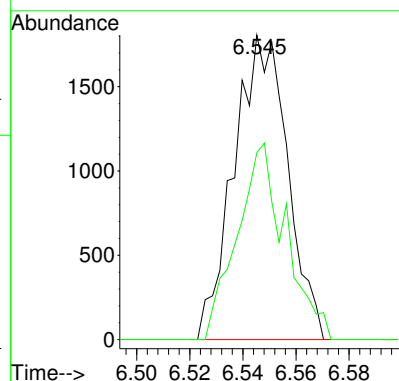
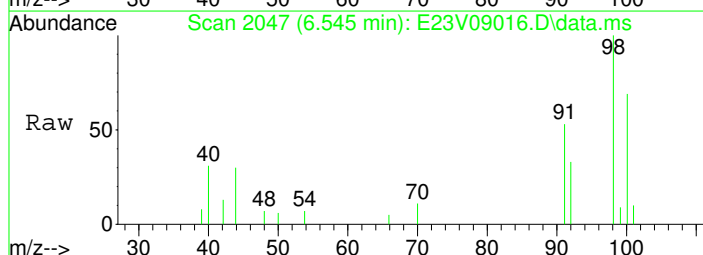
#53
 TRICHLOROETHENE
 Concen: 38.94 UG/L
 RT: 5.182 min Scan# 1558
 Delta R.T. -0.000 min
 Lab File: E23V09016.D
 Acq: 31 Mar 2023 2:31 pm

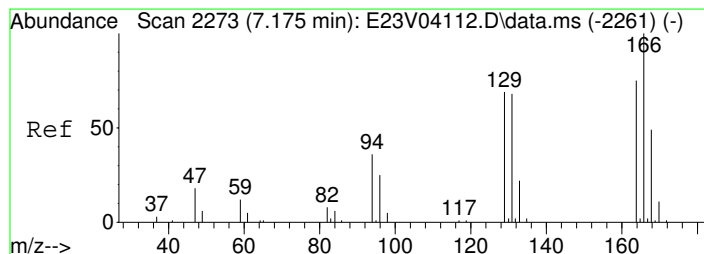
Tgt Ion	95	130	132
Resp	150475	86.1	83.0
Ion Ratio	100	102.2	98.5
Lower			
Upper		129.1	124.4



#62
 TOLUENE
 Concen: 0.17 UG/L
 RT: 6.545 min Scan# 2047
 Delta R.T. 0.000 min
 Lab File: E23V09016.D
 Acq: 31 Mar 2023 2:31 pm

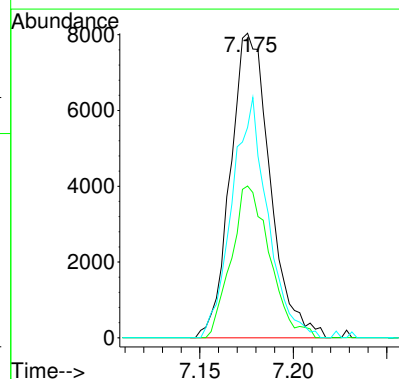
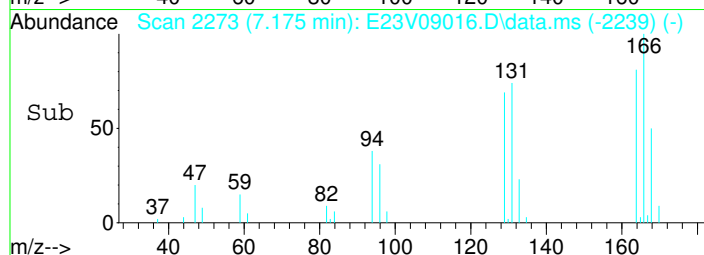
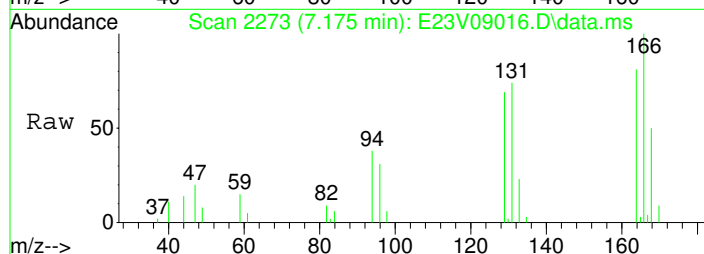
Tgt Ion	91	92
Resp	2529	46.5
Ion Ratio	100	58.4
Lower		
Upper		69.7





#67
TETRACHLOROETHENE
Concen: 2.93 UG/L
RT: 7.175 min Scan# 2273
Delta R.T. 0.000 min
Lab File: E23V09016.D
Acq: 31 Mar 2023 2:31 pm

Tgt Ion	166	Resp	11835
Ion Ratio	Lower	Upper	
166	100		
168	48.4	38.2	57.4
129	71.2	56.6	84.8



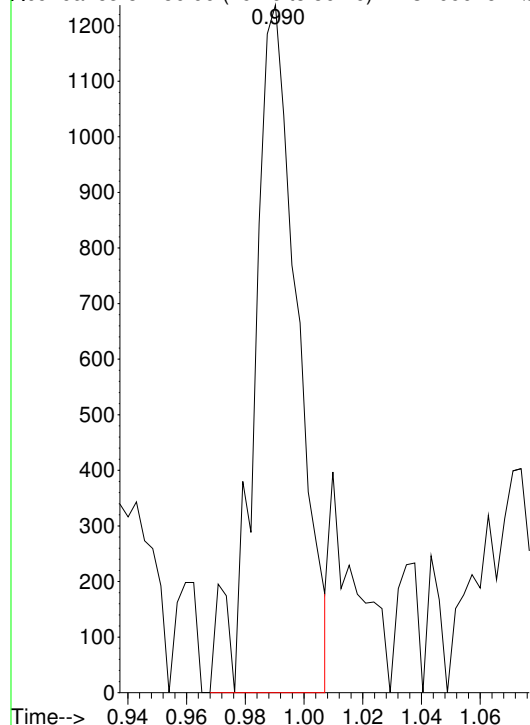
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09016.D
Acq On : 31 Mar 2023 2:31 pm
Operator :
Sample : 23C3284-08
Misc : 1

Quant Time : Mon Apr 03 07:43:18 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09016.D



Original Int. Results

RT : 0.99
Area : 1268
Amount: 0.289576

Manual Int. Results

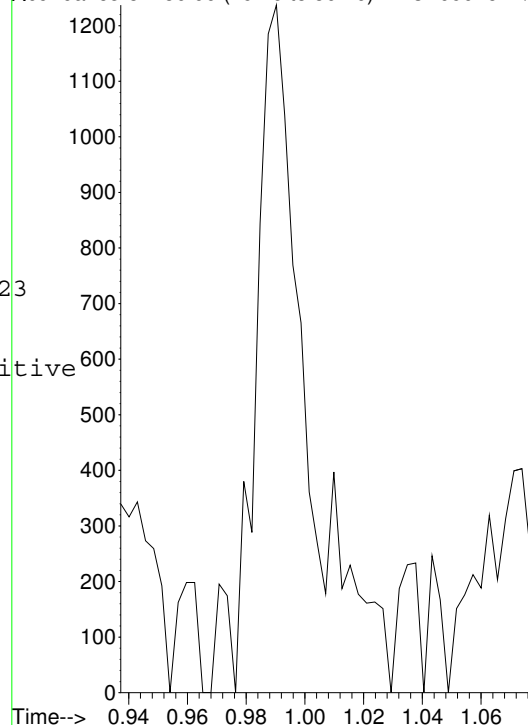
Mon Apr 03 07:42:48 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CHLOROMETHANE

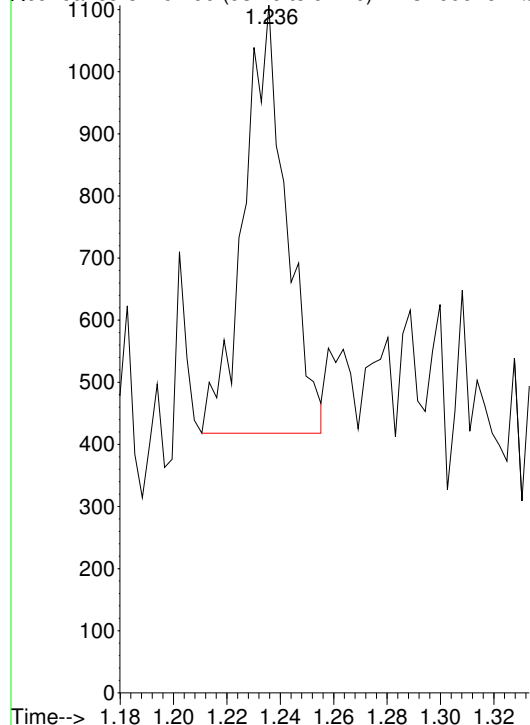
Abundance on 50.00 (49.70 to 50.70): E23V09016.D



Original Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09016.D



Original Int. Results

RT : 1.24
Area : 754
Amount: 0.303988

Manual Int. Results

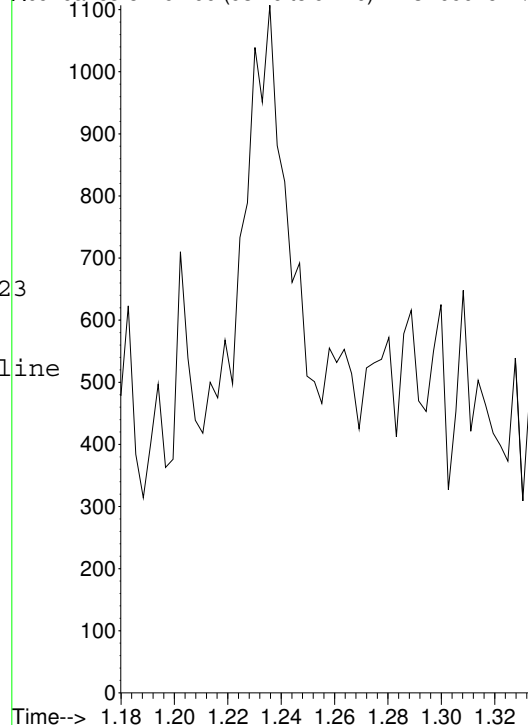
Mon Apr 03 07:42:51 2023

MIuser: eeh
Reason: Incorrect Baseline
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09016.D



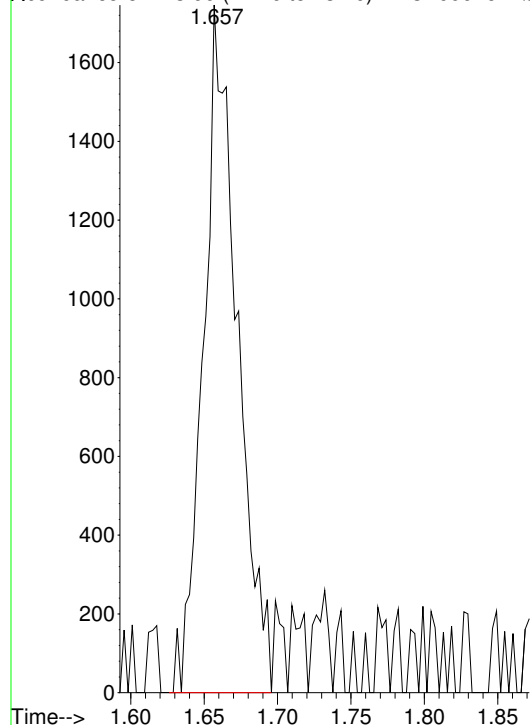
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09016.D
Acq On : 31 Mar 2023 2:31 pm
Operator :
Sample : 23C3284-08
Misc : 1

Quant Time : Mon Apr 03 07:43:18 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

ACETONE

Abundancelon 43.00 (42.70 to 43.70): E23V09016.D\



Original Int. Results

RT : 1.66
Area : 2788
Amount: 2.67801

Manual Int. Results

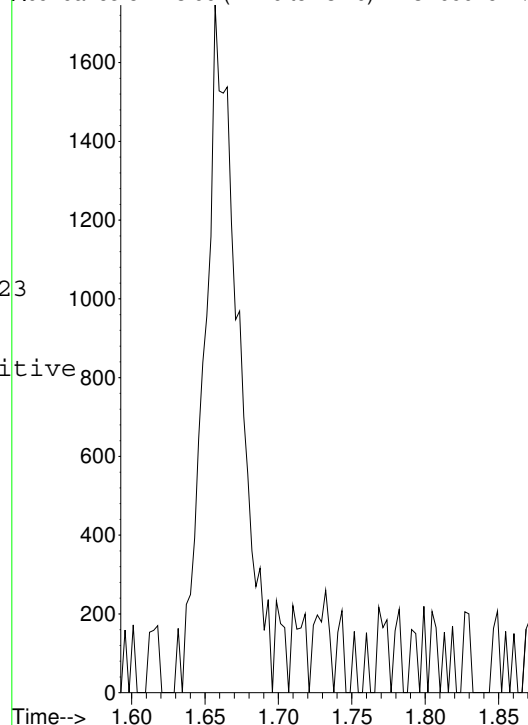
Mon Apr 03 07:42:54 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

ACETONE

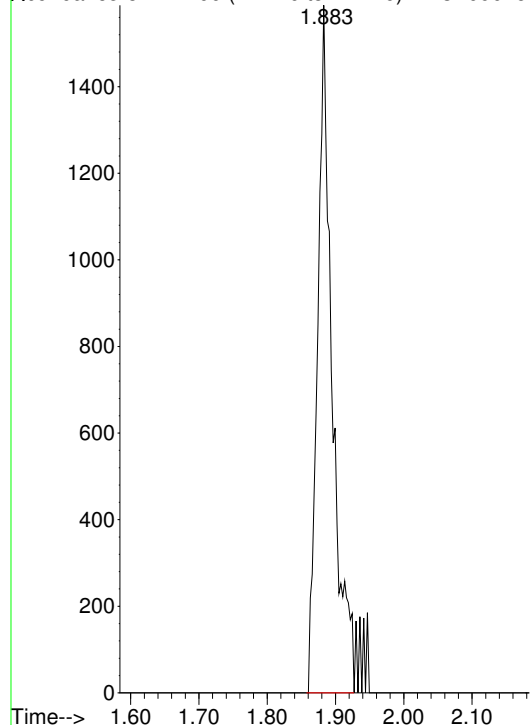
Abundancelon 43.00 (42.70 to 43.70): E23V09016.D\



Original Integration

IODOMETHANE

Abundancelon 142.00 (141.70 to 142.70): E23V09016.D\



Original Int. Results

RT : 1.88
Area : 2345
Amount: 0.498364

Manual Int. Results

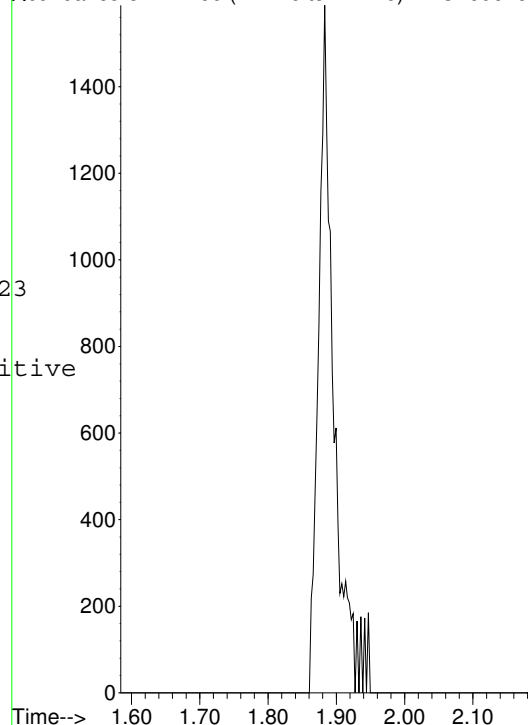
Mon Apr 03 07:42:58 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

Abundancelon 142.00 (141.70 to 142.70): E23V09016.D\



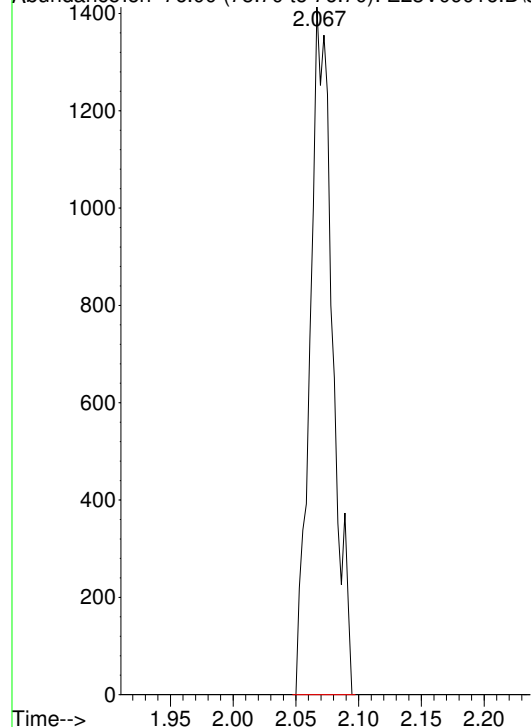
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09016.D
Acq On : 31 Mar 2023 2:31 pm
Operator :
Sample : 23C3284-08
Misc : 1

Quant Time : Mon Apr 03 07:43:18 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09016.D



Original Int. Results

RT : 2.07
Area : 1760
Amount: 0.169471

Manual Int. Results

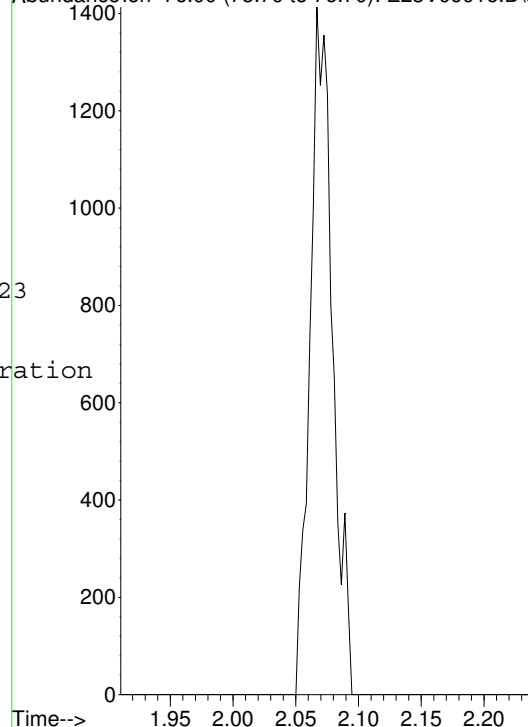
Mon Apr 03 07:43:00 2023

MIuser: eeh
Reason: Incorret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CARBON DISULFIDE

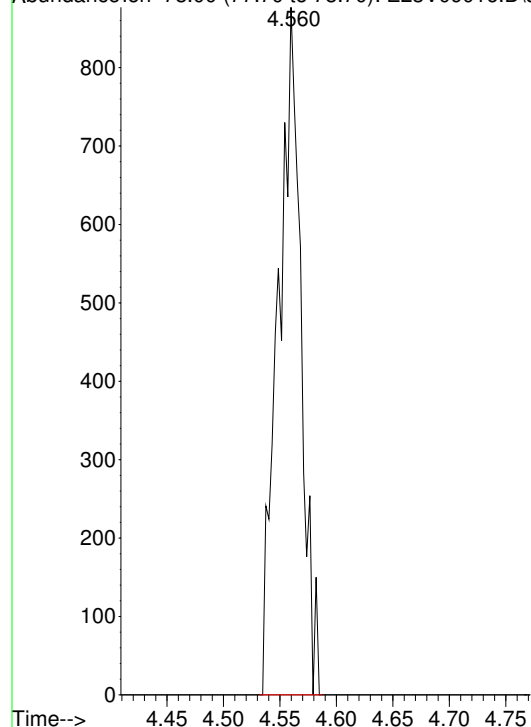
Abundance on 76.00 (75.70 to 76.70): E23V09016.D



Original Integration

BENZENE

Abundance on 78.00 (77.70 to 78.70): E23V09016.D



Original Int. Results

RT : 4.56
Area : 1227
Amount: 0.082163

Manual Int. Results

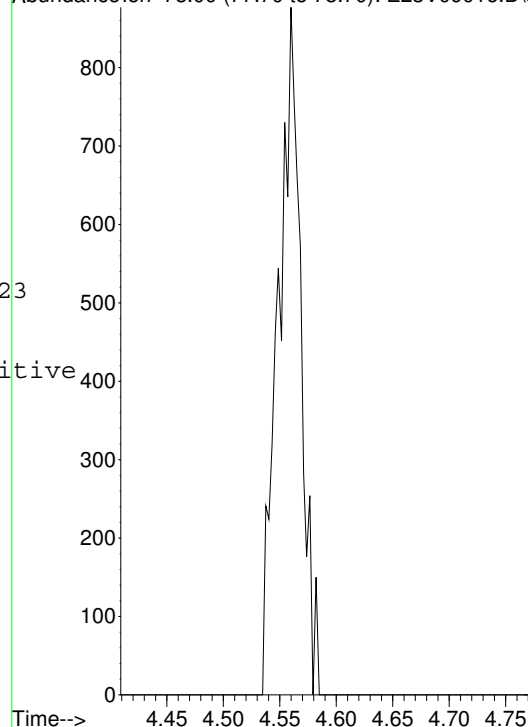
Mon Apr 03 07:43:09 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BENZENE

Abundance on 78.00 (77.70 to 78.70): E23V09016.D



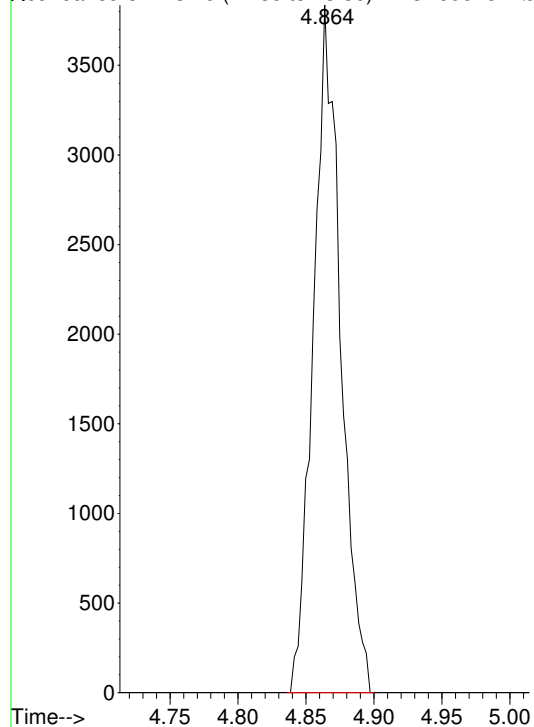
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09016.D
Acq On : 31 Mar 2023 2:31 pm
Operator :
Sample : 23C3284-08
Misc : 1

Quant Time : Mon Apr 03 07:43:18 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

T-AMYLMETHYL ETHER

Abundancelon 73.10 (72.80 to 73.80): E23V09016.D



Original Int. Results

RT : 4.86
Area : 5350
Amount: 0.605159

Manual Int. Results

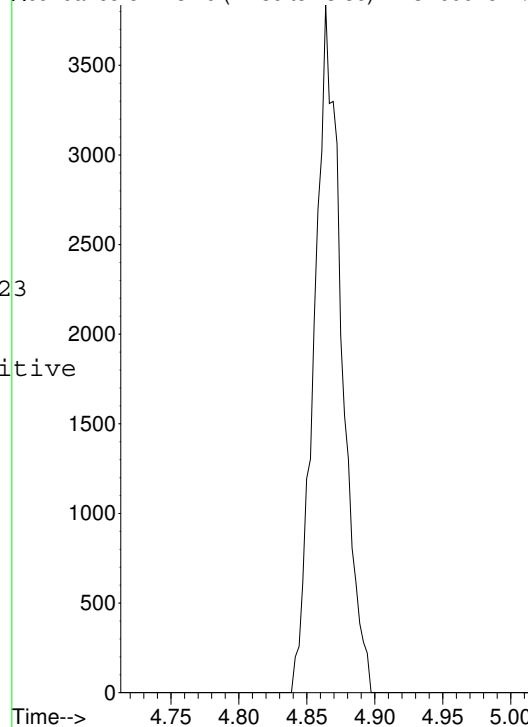
Mon Apr 03 07:43:12 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

T-AMYLMETHYL ETHER

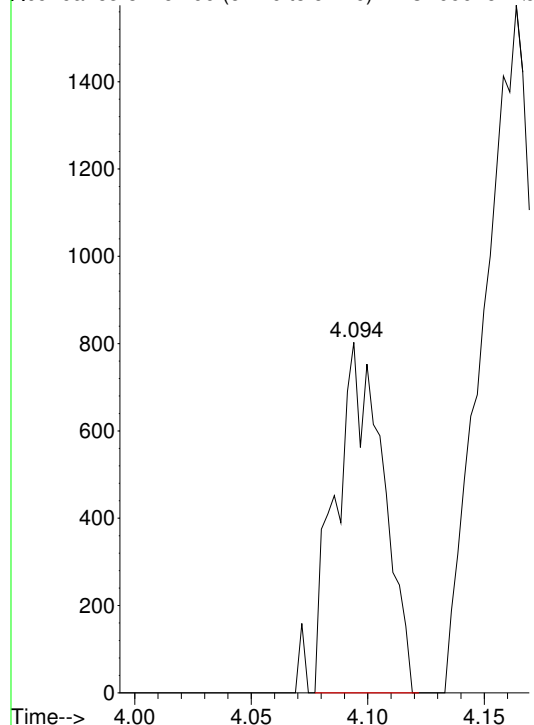
Abundancelon 73.10 (72.80 to 73.80): E23V09016.D



Original Integration

1,2-DICHLOROETHANE

Abundancelon 62.00 (61.70 to 62.70): E23V09016.D



Original Int. Results

RT : 4.09
Area : 1133
Amount: 0.250947

Manual Int. Results

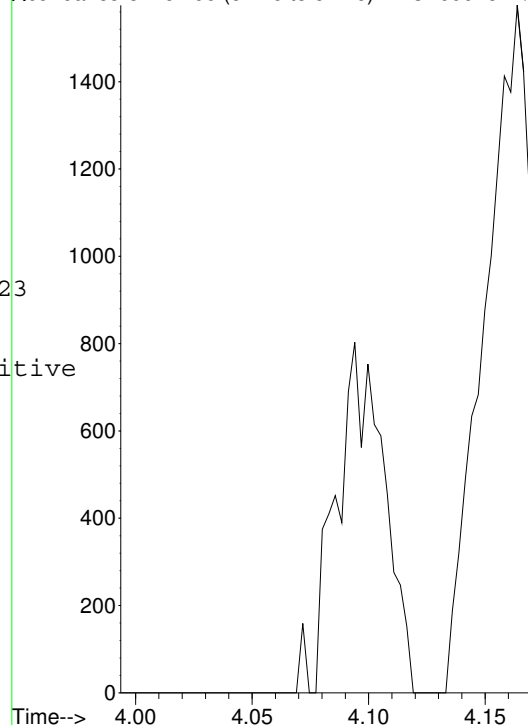
Mon Apr 03 07:43:14 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

Abundancelon 62.00 (61.70 to 62.70): E23V09016.D



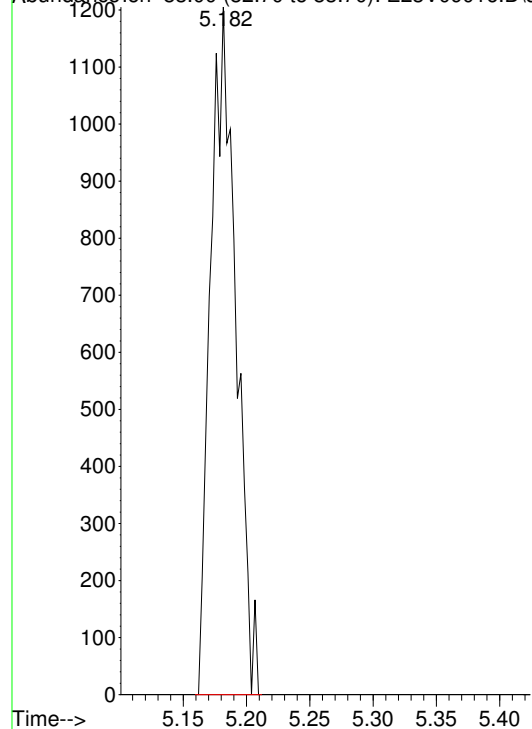
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09016.D
Acq On : 31 Mar 2023 2:31 pm
Operator :
Sample : 23C3284-08
Misc : 1

Quant Time : Mon Apr 03 07:43:18 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

BROMODICHLOROMETHANE

Abundance on 83.00 (82.70 to 83.70): E23V09016.D.d



Original Int. Results

RT : 5.18
Area : 1681
Amount: 0.385077

Manual Int. Results

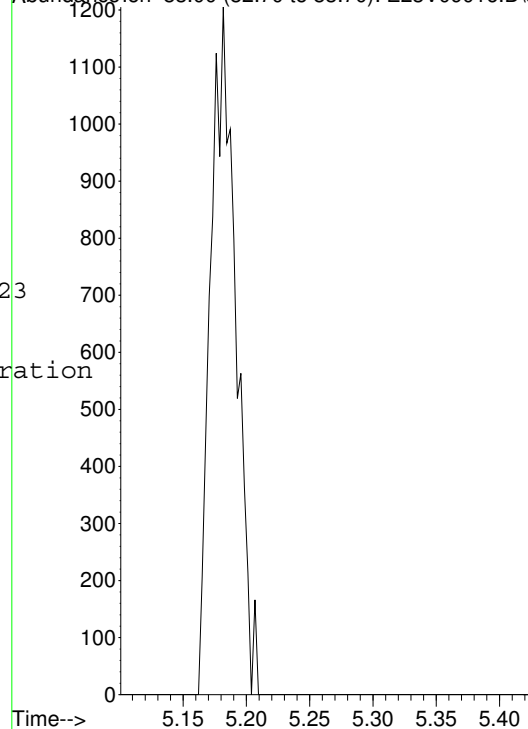
Mon Apr 03 07:43:17 2023

MIuser: eeh
Reason: Incoret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BROMODICHLOROMETHANE

Abundance on 83.00 (82.70 to 83.70): E23V09016.D.d



QC DATA

2 - FORM II
SYSTEM MONITORING COMPOUND SUMMARY
SW-846 8260D

166

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Instrument:	GCMSVOA5

	1,2-DCA-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
23C3284-01	100	97.2	98.0
23C3284-02	97.9	96.7	97.5
23C3284-03	101	95.8	97.9
23C3284-04	99.8	96.9	98.5
23C3284-05	99.0	96.8	98.4
23C3284-06	99.0	97.6	98.4
23C3284-07	98.6	99.1	97.8
23C3284-08	102	95.8	97.9
B335720-BLK1	98.0	97.6	98.3
B335720-BS1	98.6	100	98.2
B335720-BSD1	98.5	99.5	97.4
B335720-MS1	94.4	100	99.4
B335720-MSD1	92.6	101	97.6

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B335720	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B335720-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23C3284-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.	QC LIMITS REC.
Acetone	100	ND	97.1	97.1	70 - 130
Acrylonitrile	10.0	ND	8.98	89.8	70 - 130
tert-Amyl Methyl Ether (TAME)	10.0	ND	8.47	84.7	70 - 130
Benzene	10.0	ND	9.35	93.5	70 - 130
Bromobenzene	10.0	ND	9.92	99.2	70 - 130
Bromochloromethane	10.0	ND	10.4	104	70 - 130
Bromodichloromethane	10.0	ND	9.19	91.9	70 - 130
Bromoform	10.0	ND	9.65	96.5	70 - 130
Bromomethane	10.0	ND	4.92	49.2	* 70 - 130
2-Butanone (MEK)	100	ND	93.7	93.7	70 - 130
tert-Butyl Alcohol (TBA)	100	ND	92.2	92.2	70 - 130
n-Butylbenzene	10.0	ND	9.82	98.2	70 - 130
sec-Butylbenzene	10.0	ND	10.1	101	70 - 130
tert-Butylbenzene	10.0	ND	10.4	104	70 - 130
tert-Butyl Ethyl Ether (TBEE)	10.0	ND	8.65	86.5	70 - 130
Carbon Disulfide	100	ND	106	106	70 - 130
Carbon Tetrachloride	10.0	ND	10.1	101	70 - 130
Chlorobenzene	10.0	ND	10.4	104	70 - 130
Chlorodibromomethane	10.0	ND	9.55	95.5	70 - 130
Chloroethane	10.0	ND	10.1	101	70 - 130
Chloroform	10.0	ND	9.54	95.4	70 - 130
Chloromethane	10.0	ND	7.52	75.2	70 - 130
2-Chlorotoluene	10.0	ND	8.99	89.9	70 - 130
4-Chlorotoluene	10.0	ND	10.1	101	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.0	ND	8.47	84.7	70 - 130
1,2-Dibromoethane (EDB)	10.0	ND	9.79	97.9	70 - 130
Dibromomethane	10.0	ND	9.72	97.2	70 - 130
1,2-Dichlorobenzene	10.0	ND	9.70	97.0	70 - 130
1,3-Dichlorobenzene	10.0	ND	9.65	96.5	70 - 130
1,4-Dichlorobenzene	10.0	ND	9.47	94.7	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B335720	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B335720-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23C3284-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.	QC LIMITS REC.
trans-1,4-Dichloro-2-butene	10.0	ND	7.39	73.9	70 - 130
Dichlorodifluoromethane (Freon 12)	10.0	ND	10.2	102	70 - 130
1,1-Dichloroethane	10.0	0.330	10.1	97.3	70 - 130
1,2-Dichloroethane	10.0	ND	8.77	87.7	70 - 130
1,1-Dichloroethylene	10.0	0.240	11.3	110	70 - 130
cis-1,2-Dichloroethylene	10.0	1.36	11.3	99.2	70 - 130
trans-1,2-Dichloroethylene	10.0	ND	9.55	95.5	70 - 130
1,2-Dichloropropane	10.0	ND	9.40	94.0	70 - 130
1,3-Dichloropropane	10.0	ND	9.50	95.0	70 - 130
2,2-Dichloropropane	10.0	ND	7.73	77.3	70 - 130
1,1-Dichloropropene	10.0	ND	10.1	101	70 - 130
cis-1,3-Dichloropropene	10.0	ND	8.90	89.0	70 - 130
trans-1,3-Dichloropropene	10.0	ND	8.75	87.5	70 - 130
Diethyl Ether	10.0	ND	10.4	104	70 - 130
Diisopropyl Ether (DIPE)	10.0	ND	9.87	98.7	70 - 130
1,4-Dioxane	100	ND	87.8	87.8	70 - 130
Ethylbenzene	10.0	ND	10.3	103	70 - 130
Hexachlorobutadiene	10.0	ND	9.02	90.2	70 - 130
2-Hexanone (MBK)	100	ND	96.0	96.0	70 - 130
Isopropylbenzene (Cumene)	10.0	ND	10.4	104	70 - 130
p-Isopropyltoluene (p-Cymene)	10.0	ND	9.98	99.8	70 - 130
Methyl Acetate	10.0	ND	8.45	84.5	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.0	ND	8.72	87.2	70 - 130
Methyl Cyclohexane	10.0	ND	9.94	99.4	70 - 130
Methylene Chloride	10.0	ND	9.14	91.4	70 - 130
4-Methyl-2-pentanone (MIBK)	100	ND	99.2	99.2	70 - 130
Naphthalene	10.0	ND	15.2	152	* 70 - 130
n-Propylbenzene	10.0	ND	10.5	105	70 - 130
Styrene	10.0	ND	10.2	102	70 - 130
1,1,1,2-Tetrachloroethane	10.0	ND	10.7	107	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B335720	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B335720-MS1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23C3284-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC.	QC LIMITS REC.
1,1,2,2-Tetrachloroethane	10.0	ND	9.60	96.0	70 - 130
Tetrachloroethylene	10.0	2.73	13.4	106	70 - 130
Tetrahydrofuran	10.0	ND	9.01	90.1	70 - 130
Toluene	10.0	ND	10.1	101	70 - 130
1,2,3-Trichlorobenzene	10.0	ND	8.70	87.0	70 - 130
1,2,4-Trichlorobenzene	10.0	ND	9.08	90.8	70 - 130
1,3,5-Trichlorobenzene	10.0	ND	9.41	94.1	70 - 130
1,1,1-Trichloroethane	10.0	9.57	19.8	102	70 - 130
1,1,2-Trichloroethane	10.0	ND	9.67	96.7	70 - 130
Trichloroethylene	10.0	37.8	48.0	103	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	ND	11.2	112	70 - 130
1,2,3-Trichloropropane	10.0	ND	9.77	97.7	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	0.370	11.1	107	70 - 130
1,2,4-Trimethylbenzene	10.0	ND	9.87	98.7	70 - 130
1,3,5-Trimethylbenzene	10.0	ND	10.1	101	70 - 130
Vinyl Chloride	10.0	ND	14.0	140	* 70 - 130
m+p Xylene	20.0	ND	20.9	104	70 - 130
o-Xylene	10.0	ND	10.4	104	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B335720	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B335720-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23C3284-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Acetone	100	94.1	94.1	3.16	30	70 - 130
Acrylonitrile	10.0	8.86	88.6	1.35	30	70 - 130
tert-Amyl Methyl Ether (TAME)	10.0	8.41	84.1	0.711	30	70 - 130
Benzene	10.0	9.30	93.0	0.536	30	70 - 130
Bromobenzene	10.0	9.98	99.8	0.603	30	70 - 130
Bromochloromethane	10.0	9.90	99.0	5.41	30	70 - 130
Bromodichloromethane	10.0	9.28	92.8	0.975	30	70 - 130
Bromoform	10.0	9.80	98.0	1.54	30	70 - 130
Bromomethane	10.0	6.42	64.2	* 26.5	30	70 - 130
2-Butanone (MEK)	100	91.4	91.4	2.49	30	70 - 130
tert-Butyl Alcohol (TBA)	100	87.8	87.8	4.91	30	70 - 130
n-Butylbenzene	10.0	10.3	103	4.97	30	70 - 130
sec-Butylbenzene	10.0	10.5	105	3.87	30	70 - 130
tert-Butylbenzene	10.0	10.7	107	2.84	30	70 - 130
tert-Butyl Ethyl Ether (TBEE)	10.0	8.82	88.2	1.95	30	70 - 130
Carbon Disulfide	100	105	105	0.963	30	70 - 130
Carbon Tetrachloride	10.0	9.96	99.6	1.20	30	70 - 130
Chlorobenzene	10.0	10.6	106	1.43	30	70 - 130
Chlorodibromomethane	10.0	9.41	94.1	1.48	30	70 - 130
Chloroethane	10.0	9.14	91.4	9.68	30	70 - 130
Chloroform	10.0	9.31	93.1	2.44	30	70 - 130
Chloromethane	10.0	9.18	91.8	19.9	30	70 - 130
2-Chlorotoluene	10.0	9.29	92.9	3.28	30	70 - 130
4-Chlorotoluene	10.0	10.2	102	0.988	30	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.0	8.61	86.1	1.64	30	70 - 130
1,2-Dibromoethane (EDB)	10.0	9.65	96.5	1.44	30	70 - 130
Dibromomethane	10.0	9.67	96.7	0.516	30	70 - 130
1,2-Dichlorobenzene	10.0	9.90	99.0	2.04	30	70 - 130
1,3-Dichlorobenzene	10.0	9.99	99.9	3.46	30	70 - 130
1,4-Dichlorobenzene	10.0	9.77	97.7	3.12	30	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B335720	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B335720-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23C3284-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
trans-1,4-Dichloro-2-butene	10.0	7.90	79.0	6.67	30	70 - 130
Dichlorodifluoromethane (Freon 12)	10.0	9.69	96.9	5.13	30	70 - 130
1,1-Dichloroethane	10.0	9.84	95.1	2.21	30	70 - 130
1,2-Dichloroethane	10.0	8.67	86.7	1.15	30	70 - 130
1,1-Dichloroethylene	10.0	11.1	109	1.70	30	70 - 130
cis-1,2-Dichloroethylene	10.0	11.2	98.2	0.890	30	70 - 130
trans-1,2-Dichloroethylene	10.0	9.43	94.3	1.26	30	70 - 130
1,2-Dichloropropane	10.0	9.03	90.3	4.02	30	70 - 130
1,3-Dichloropropane	10.0	9.38	93.8	1.27	30	70 - 130
2,2-Dichloropropane	10.0	7.82	78.2	1.16	30	70 - 130
1,1-Dichloropropene	10.0	9.82	98.2	2.61	30	70 - 130
cis-1,3-Dichloropropene	10.0	9.15	91.5	2.77	30	70 - 130
trans-1,3-Dichloropropene	10.0	8.60	86.0	1.73	30	70 - 130
Diethyl Ether	10.0	10.1	101	2.82	30	70 - 130
Diisopropyl Ether (DIPE)	10.0	9.44	94.4	4.45	30	70 - 130
1,4-Dioxane	100	87.9	87.9	0.0341	30	70 - 130
Ethylbenzene	10.0	10.6	106	2.77	30	70 - 130
Hexachlorobutadiene	10.0	10.0	100	10.4	30	70 - 130
2-Hexanone (MBK)	100	93.6	93.6	2.58	30	70 - 130
Isopropylbenzene (Cumene)	10.0	10.6	106	1.91	30	70 - 130
p-Isopropyltoluene (p-Cymene)	10.0	10.4	104	3.64	30	70 - 130
Methyl Acetate	10.0	8.65	86.5	2.34	30	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.0	8.44	84.4	3.26	30	70 - 130
Methyl Cyclohexane	10.0	9.94	99.4	0.00	30	70 - 130
Methylene Chloride	10.0	8.70	87.0	4.93	30	70 - 130
4-Methyl-2-pentanone (MIBK)	100	96.6	96.6	2.70	30	70 - 130
Naphthalene	10.0	11.3	113	29.3	30	70 - 130
n-Propylbenzene	10.0	10.8	108	2.25	30	70 - 130
Styrene	10.0	10.3	103	0.293	30	70 - 130
1,1,1,2-Tetrachloroethane	10.0	10.5	105	1.23	30	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Analysis:	SW-846 8260D
Batch:	B335720	Preparation:	SW-846 5030B
% Solids:		Laboratory ID:	B335720-MSD1
Initial/Final:	5 mL / 5 mL	Sample Lab ID:	23C3284-02
Column:			

ANALYTE	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
1,1,2,2-Tetrachloroethane	10.0	10.0	100	4.08	30	70 - 130
Tetrachloroethylene	10.0	13.1	104	1.81	30	70 - 130
Tetrahydrofuran	10.0	9.32	93.2	3.38	30	70 - 130
Toluene	10.0	10.0	100	0.993	30	70 - 130
1,2,3-Trichlorobenzene	10.0	9.91	99.1	13.0	30	70 - 130
1,2,4-Trichlorobenzene	10.0	9.84	98.4	8.03	30	70 - 130
1,3,5-Trichlorobenzene	10.0	9.91	99.1	5.18	30	70 - 130
1,1,1-Trichloroethane	10.0	19.5	99.0	1.63	30	70 - 130
1,1,2-Trichloroethane	10.0	9.63	96.3	0.415	30	70 - 130
Trichloroethylene	10.0	48.6	108	1.14	30	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	11.0	110	1.53	30	70 - 130
1,2,3-Trichloropropane	10.0	9.87	98.7	1.02	30	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.0	106	0.996	30	70 - 130
1,2,4-Trimethylbenzene	10.0	10.2	102	3.29	30	70 - 130
1,3,5-Trimethylbenzene	10.0	10.5	105	3.68	30	70 - 130
Vinyl Chloride	10.0	13.4	134	4.25	30	70 - 130
m+p Xylene	20.0	21.0	105	0.382	20	70 - 130
o-Xylene	10.0	10.6	106	1.90	30	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B335720	Laboratory ID:	B335720-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC.	QC LIMITS REC.
Acetone	100	106	106	70 - 160
Acrylonitrile	10.0	10.5	105	70 - 130
tert-Amyl Methyl Ether (TAME)	10.0	8.00	80.0	70 - 130
Benzene	10.0	9.79	97.9	70 - 130
Bromobenzene	10.0	10.1	101	70 - 130
Bromochloromethane	10.0	10.7	107	70 - 130
Bromodichloromethane	10.0	9.73	97.3	70 - 130
Bromoform	10.0	10.4	104	70 - 130
Bromomethane	10.0	7.82	78.2	40 - 160
2-Butanone (MEK)	100	103	103	40 - 160
tert-Butyl Alcohol (TBA)	100	104	104	40 - 160
n-Butylbenzene	10.0	10.8	108	70 - 130
sec-Butylbenzene	10.0	10.6	106	70 - 130
tert-Butylbenzene	10.0	10.4	104	70 - 130
tert-Butyl Ethyl Ether (TBEE)	10.0	8.30	83.0	70 - 130
Carbon Disulfide	100	118	118	70 - 130
Carbon Tetrachloride	10.0	10.4	104	70 - 130
Chlorobenzene	10.0	10.7	107	70 - 130
Chlorodibromomethane	10.0	9.90	99.0	70 - 130
Chloroethane	10.0	9.01	90.1	70 - 130
Chloroform	10.0	9.85	98.5	70 - 130
Chloromethane	10.0	10.8	108	40 - 160
2-Chlorotoluene	10.0	9.68	96.8	70 - 130
4-Chlorotoluene	10.0	10.6	106	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.0	9.48	94.8	70 - 130
1,2-Dibromoethane (EDB)	10.0	10.2	102	70 - 130
Dibromomethane	10.0	10.0	100	70 - 130
1,2-Dichlorobenzene	10.0	10.2	102	70 - 130
1,3-Dichlorobenzene	10.0	10.3	103	70 - 130
1,4-Dichlorobenzene	10.0	10.0	100	70 - 130
trans-1,4-Dichloro-2-butene	10.0	7.96	79.6	70 - 130
Dichlorodifluoromethane (Freon 12)	10.0	10.5	105	40 - 160
1,1-Dichloroethane	10.0	9.96	99.6	70 - 130
1,2-Dichloroethane	10.0	9.46	94.6	70 - 130
1,1-Dichloroethylene	10.0	11.6	116	70 - 130
cis-1,2-Dichloroethylene	10.0	10.4	104	70 - 130
trans-1,2-Dichloroethylene	10.0	9.97	99.7	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B335720	Laboratory ID:	B335720-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC.	QC LIMITS REC.
1,2-Dichloropropane	10.0	9.81	98.1	70 - 130
1,3-Dichloropropane	10.0	9.90	99.0	70 - 130
2,2-Dichloropropane	10.0	9.20	92.0	40 - 130
1,1-Dichloropropene	10.0	10.6	106	70 - 130
cis-1,3-Dichloropropene	10.0	9.74	97.4	70 - 130
trans-1,3-Dichloropropene	10.0	9.04	90.4	70 - 130
Diethyl Ether	10.0	10.5	105	70 - 130
Diisopropyl Ether (DIPE)	10.0	10.0	100	70 - 130
1,4-Dioxane	100	84.8	84.8	40 - 130
Ethylbenzene	10.0	10.5	105	70 - 130
Hexachlorobutadiene	10.0	10.5	105	70 - 130
2-Hexanone (MBK)	100	104	104	70 - 160
Isopropylbenzene (Cumene)	10.0	10.6	106	70 - 130
p-Isopropyltoluene (p-Cymene)	10.0	10.4	104	70 - 130
Methyl Acetate	10.0	10.8	108	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.0	8.15	81.5	70 - 130
Methyl Cyclohexane	10.0	10.1	101	70 - 130
Methylene Chloride	10.0	9.65	96.5	70 - 130
4-Methyl-2-pentanone (MIBK)	100	104	104	70 - 160
Naphthalene	10.0	9.94	99.4	40 - 130
n-Propylbenzene	10.0	10.7	107	70 - 130
Styrene	10.0	10.4	104	70 - 130
1,1,1,2-Tetrachloroethane	10.0	10.8	108	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.6	106	70 - 130
Tetrachloroethylene	10.0	10.4	104	70 - 130
Tetrahydrofuran	10.0	9.85	98.5	70 - 130
Toluene	10.0	10.1	101	70 - 130
1,2,3-Trichlorobenzene	10.0	10.4	104	70 - 130
1,2,4-Trichlorobenzene	10.0	9.98	99.8	70 - 130
1,3,5-Trichlorobenzene	10.0	10.4	104	70 - 130
1,1,1-Trichloroethane	10.0	10.2	102	70 - 130
1,1,2-Trichloroethane	10.0	10.1	101	70 - 130
Trichloroethylene	10.0	10.4	104	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	11.6	116	70 - 130
1,2,3-Trichloropropane	10.0	10.4	104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.4	114	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B335720	Laboratory ID:	B335720-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC.	QC LIMITS REC.
1,2,4-Trimethylbenzene	10.0	10.1	101	70 - 130
1,3,5-Trimethylbenzene	10.0	10.5	105	70 - 130
Vinyl Chloride	10.0	13.5	135	40 - 160
m+p Xylene	20.0	21.1	105	70 - 130
o-Xylene	10.0	10.5	105	70 - 130

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	REC.
Acetone	100	112	112	5.55	25	70 - 160
Acrylonitrile	10.0	11.3	113	7.08	25	70 - 130
tert-Amyl Methyl Ether (TAME)	10.0	9.18	91.8	13.7	25	70 - 130
Benzene	10.0	9.86	98.6	0.712	25	70 - 130
Bromobenzene	10.0	10.4	104	2.63	25	70 - 130
Bromochloromethane	10.0	10.9	109	2.13	25	70 - 130
Bromodichloromethane	10.0	10.3	103	5.59	25	70 - 130
Bromoform	10.0	10.8	108	3.30	25	70 - 130
Bromomethane	10.0	8.87	88.7	12.6	25	40 - 160
2-Butanone (MEK)	100	111	111	7.28	25	40 - 160
tert-Butyl Alcohol (TBA)	100	120	120	14.2	25	40 - 160
n-Butylbenzene	10.0	10.8	108	0.833	25	70 - 130
sec-Butylbenzene	10.0	10.7	107	1.32	25	70 - 130
tert-Butylbenzene	10.0	10.4	104	0.577	25	70 - 130
tert-Butyl Ethyl Ether (TBEE)	10.0	9.52	95.2	13.7	25	70 - 130
Carbon Disulfide	100	113	113	4.36	25	70 - 130
Carbon Tetrachloride	10.0	10.6	106	1.62	25	70 - 130
Chlorobenzene	10.0	10.6	106	0.938	25	70 - 130
Chlorodibromomethane	10.0	10.4	104	5.31	25	70 - 130
Chloroethane	10.0	9.43	94.3	4.56	25	70 - 130
Chloroform	10.0	10.0	100	1.61	25	70 - 130
Chloromethane	10.0	11.8	118	8.40	25	40 - 160
2-Chlorotoluene	10.0	9.97	99.7	2.95	25	70 - 130
4-Chlorotoluene	10.0	10.5	105	0.662	25	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.0	11.3	113	17.7	25	70 - 130
1,2-Dibromoethane (EDB)	10.0	10.4	104	2.72	25	70 - 130
Dibromomethane	10.0	10.3	103	2.76	25	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B335720	Laboratory ID:	B335720-BSD1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,2-Dichlorobenzene	10.0	10.4	104	2.34	25	70 - 130
1,3-Dichlorobenzene	10.0	10.6	106	2.20	25	70 - 130
1,4-Dichlorobenzene	10.0	10.2	102	1.48	25	70 - 130
trans-1,4-Dichloro-2-butene	10.0	8.82	88.2	10.3	25	70 - 130
Dichlorodifluoromethane (Freon 12)	10.0	10.3	103	1.44	25	40 - 160
1,1-Dichloroethane	10.0	10.3	103	3.65	25	70 - 130
1,2-Dichloroethane	10.0	9.38	93.8	0.849	25	70 - 130
1,1-Dichloroethylene	10.0	11.6	116	0.430	25	70 - 130
cis-1,2-Dichloroethylene	10.0	10.4	104	0.0961	25	70 - 130
trans-1,2-Dichloroethylene	10.0	9.96	99.6	0.100	25	70 - 130
1,2-Dichloropropane	10.0	9.69	96.9	1.23	25	70 - 130
1,3-Dichloropropane	10.0	10.0	100	1.30	25	70 - 130
2,2-Dichloropropane	10.0	9.87	98.7	7.03	25	40 - 130
1,1-Dichloropropene	10.0	10.4	104	1.24	25	70 - 130
cis-1,3-Dichloropropene	10.0	10.0	100	3.03	25	70 - 130
trans-1,3-Dichloropropene	10.0	9.39	93.9	3.80	25	70 - 130
Diethyl Ether	10.0	11.4	114	8.07	25	70 - 130
Diisopropyl Ether (DIPE)	10.0	10.4	104	3.72	25	70 - 130
1,4-Dioxane	100	95.5	95.5	11.9	50	40 - 130
Ethylbenzene	10.0	10.5	105	0.191	25	70 - 130
Hexachlorobutadiene	10.0	10.5	105	0.0951	25	70 - 130
2-Hexanone (MBK)	100	110	110	5.70	25	70 - 160
Isopropylbenzene (Cumene)	10.0	10.4	104	1.14	25	70 - 130
p-Isopropyltoluene (p-Cymene)	10.0	10.5	105	1.44	25	70 - 130
Methyl Acetate	10.0	10.9	109	0.276	25	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.0	9.38	93.8	14.0	25	70 - 130
Methyl Cyclohexane	10.0	9.90	99.0	2.40	25	70 - 130
Methylene Chloride	10.0	10.0	100	3.66	25	70 - 130
4-Methyl-2-pentanone (MIBK)	100	111	111	6.27	25	70 - 160
Naphthalene	10.0	10.8	108	8.57	25	40 - 130
n-Propylbenzene	10.0	10.6	106	0.936	25	70 - 130
Styrene	10.0	10.6	106	1.53	25	70 - 130
1,1,1,2-Tetrachloroethane	10.0	11.0	110	2.20	25	70 - 130
1,1,2,2-Tetrachloroethane	10.0	11.2	112	5.98	25	70 - 130
Tetrachloroethylene	10.0	10.4	104	0.288	25	70 - 130
Tetrahydrofuran	10.0	10.9	109	9.85	25	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B335720	Laboratory ID:	B335720-BSD1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Toluene	10.0	10.0	100	0.995	25	70 - 130
1,2,3-Trichlorobenzene	10.0	11.1	111	6.42	25	70 - 130
1,2,4-Trichlorobenzene	10.0	10.3	103	3.25	25	70 - 130
1,3,5-Trichlorobenzene	10.0	10.6	106	1.90	25	70 - 130
1,1,1-Trichloroethane	10.0	10.4	104	1.95	25	70 - 130
1,1,2-Trichloroethane	10.0	10.3	103	1.66	25	70 - 130
Trichloroethylene	10.0	9.57	95.7	8.02	25	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	11.3	113	3.23	25	70 - 130
1,2,3-Trichloropropane	10.0	11.1	111	6.90	25	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.1	111	2.49	25	70 - 130
1,2,4-Trimethylbenzene	10.0	10.3	103	2.06	25	70 - 130
1,3,5-Trimethylbenzene	10.0	10.7	107	1.89	25	70 - 130
Vinyl Chloride	10.0	13.1	131	2.93	25	40 - 160
m+p Xylene	20.0	21.2	106	0.426	25	70 - 130
o-Xylene	10.0	10.7	107	1.32	25	70 - 130

4 - FORM IV
METHOD BLANK SUMMARY

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SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Blank ID:	B335720-BLK1	Batch:	B335720
		Prepared:	03/31/2023 05:27

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	B335720-BS1	E23V09003.D	08:35
LCS Dup	B335720-BSD1	E23V09004.D	09:03
FieldBlank_20230328	23C3284-06	E23V09008.D	10:53
TripBlank_20230328	23C3284-07	E23V09009.D	11:20
MW-15S	23C3284-01	E23V09011.D	12:14
MW-18S	23C3284-02	E23V09012.D	12:42
MW-3S	23C3284-03	E23V09013.D	13:09
MW-17S	23C3284-04	E23V09014.D	13:37
MW-19S	23C3284-05	E23V09015.D	14:04
MW-X	23C3284-08	E23V09016.D	14:31
Matrix Spike	B335720-MS1	E23V09027.D	19:29
Matrix Spike Dup	B335720-MSD1	E23V09028.D	19:57

5 - FORM V

INSTRUMENT PERFORMANCE CHECK

179

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Lab File ID:	E23V04106.D	Injection Date:	02/09/23
Instrument ID:	GCMSVOA5	Injection Time:	10:07
Sequence:	S083087	Lab Sample ID:	S083087-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	15.5	PASS
75	30 - 60% of 95	42.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.36	PASS
173	Less than 2% of 174	0.501	PASS
174	50 - 200% of 95	87.9	PASS
175	5 - 9% of 174	7.07	PASS
176	95 - 101% of 174	97.8	PASS
177	5 - 9% of 176	6.38	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
0.4 PPB	S083087-CAL1	E23V04107.D	02/09/2023	10:35:00
0.5 PPB	S083087-CAL2	E23V04108.D	02/09/2023	11:03:00
1.0 PPB	S083087-CAL3	E23V04109.D	02/09/2023	11:31:00
2.0 PPB	S083087-CAL4	E23V04110.D	02/09/2023	11:58:00
5.0 PPB	S083087-CAL5	E23V04111.D	02/09/2023	12:26:00
10 PPB	S083087-CAL6	E23V04112.D	02/09/2023	12:53:00
20 PPB	S083087-CAL7	E23V04113.D	02/09/2023	13:21:00
50 PPB	S083087-CAL8	E23V04114.D	02/09/2023	13:48:00
50 PPB	S083087-CAL8	E23V04117.D	02/09/2023	13:48:00
100 PPB	S083087-CAL9	E23V04115.D	02/09/2023	14:16:00
100 PPB	S083087-CAL9	E23V04118.D	02/09/2023	14:16:00
200 PPB	S083087-CALA	E23V04116.D	02/09/2023	14:44:00
200 PPB	S083087-CALA	E23V04119.D	02/09/2023	14:44:00
Initial Cal Check	S083087-ICV1	E23V04123.D	02/09/2023	17:57:00

CALIBRATION DATA

6 - FORM VI

INITIAL CALIBRATION DATA SHEET

181

SW-846 8260D

Client: NYDEC Environmental Assessment & Remediation

SDG: 23C3284

Project: Genzale Plating Co. - CO 144183

Calibration: 2300183

Instrument: GCMSVOA5

Calibration Date: 2/9/2023 10:07:26AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acetone	4	0.1072015	5	0.1141637	10	9.590965E-02	20	7.805438E-02	50	7.770244E-02	100	7.807569E-02
Acrolein	4	0.0650465	5	6.338211E-02	10	6.169572E-02	20	5.924809E-02	50	5.710688E-02	100	6.194667E-02
Acrylonitrile	0.4	0.153762	0.5	0.1329091	1	0.1332811	2	0.1183517	5	0.1124638	10	0.1295597
tert-Amyl Methyl Ether (TAME)	0.4	0.6636385	0.5	0.678009	1	0.6904065	2	0.671028	5	0.6541822	10	0.7221462
Benzene	0.4	1.358807	0.5	1.332025	1	1.242936	2	1.17243	5	1.114017	10	1.174658
Bromobenzene	0.4	0.6077805	0.5	0.6190896	1	0.6487099	2	0.6318113	5	0.61856	10	0.6641467
Bromochloromethane	0.4	0.2081834	0.5	0.2197315	1	0.2329441	2	0.2296092	5	0.2125048	10	0.2317258
Bromodichloromethane	0.4	0.209116	0.5	0.2124229	1	0.2263526	2	0.2275654	5	0.220382	10	0.2350339
Bromoform			0.5	0.1923385	1	0.1987308	2	0.2114036	5	0.2193052	10	0.2458209
Bromomethane							2	0.2174596	5	0.1690163	10	0.1736373
2-Butanone (MEK)	4	0.1294235	5	0.1487201	10	0.1408984	20	0.1195285	50	0.1206123	100	0.1335205
tert-Butyl Alcohol (TBA)	4	2.518068E-02	5	2.307785E-02	10	2.542214E-02	20	2.052676E-02	50	2.257247E-02	100	2.558888E-02
n-Butylbenzene	0.4	1.112939	0.5	1.147864	1	1.230665	2	1.230977	5	1.19033	10	1.367531
sec-Butylbenzene	0.4	1.587856	0.5	1.625437	1	1.697053	2	1.717207	5	1.63066	10	1.815926
tert-Butylbenzene	0.4	1.146861	0.5	1.171813	1	1.196688	2	1.200526	5	1.156671	10	1.266262
tert-Butyl Ethyl Ether (TBEE)	0.4	0.7407354	0.5	0.7285835	1	0.7743242	2	0.7406542	5	0.7366199	10	0.8060794
Carbon Disulfide	4	0.82971	5	0.8187891	10	0.8415691	20	0.8457519	50	0.8268665	100	0.9353346
Carbon Tetrachloride	0.4	0.3289038	0.5	0.3091431	1	0.316181	2	0.3302039	5	0.3296814	10	0.3588161
Chlorobenzene	0.4	1.039436	0.5	1.083828	1	1.082814	2	1.083594	5	1.037187	10	1.099095
Chlorodibromomethane	0.4	0.1363368	0.5	0.1537841	1	0.1544403	2	0.1580735	5	0.1630579	10	0.18066
Chloroethane	0.4	0.204728	0.5	0.1715736	1	0.1987302	2	0.1822855	5	0.1789961	10	0.2005617
2-Chloroethyl Vinyl Ether					10	0.1103683	20	0.1027421	50	0.113292	100	0.1257146
Chloroform	0.4	0.5671053	0.5	0.583937	1	0.5208688	2	0.5073917	5	0.4830868	10	0.5079894
Chloromethane	0.4	0.4681966	0.5	0.4263448	1	0.3573739	2	0.3001699	5	0.2723839	10	0.3364321
2-Chlorotoluene	0.4	1.175261	0.5	1.172303	1	1.218166	2	1.168779	5	1.147769	10	1.203549
4-Chlorotoluene	0.4	1.101826	0.5	1.094406	1	1.128529	2	1.144003	5	1.103448	10	1.192313
Cyclohexane	0.4	0.5556595	0.5	0.5514865	1	0.497634	2	0.5294817	5	0.4969997	10	0.5465883
1,2-Dibromo-3-chloropropane (D					1	5.117371E-02	2	5.232215E-02	5	0.0549556	10	6.483719E-02
1,2-Dibromoethane (EDB)	0.4	0.1519425	0.5	0.1518447	1	0.1653984	2	0.1701541	5	0.1636491	10	0.1810938
Dibromomethane	0.4	0.1054092	0.5	0.109748	1	0.1174568	2	0.1198657	5	0.1114024	10	0.1210282
1,2-Dichlorobenzene	0.4	0.6818805	0.5	0.6562042	1	0.7802258	2	0.7415117	5	0.6912071	10	0.7604465

6 - FORM VI

INITIAL CALIBRATION DATA SHEET

182

SW-846 8260D

Client: NYDEC Environmental Assessment & Remediation

SDG: 23C3284

Project: Genzale Plating Co. - CO 144183

Calibration: 2300183

Instrument: GCMSVOA5

Calibration Date: 2/9/2023 10:07:26AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
1,3-Dichlorobenzene	0.4	0.8196272	0.5	0.7937	1	0.8671795	2	0.8209795	5	0.767213	10	0.857135
1,4-Dichlorobenzene	0.4	0.886102	0.5	0.8813254	1	0.8662087	2	0.8865932	5	0.8077239	10	0.8778203
trans-1,4-Dichloro-2-butene					1	7.340508E-02	2	8.122603E-02	5	9.006042E-02	10	9.598362E-02
Dichlorodifluoromethane (Freon 22)	0.4	0.3438049	0.5	0.3410758	1	0.3263941	2	0.3489805	5	0.3366985	10	0.3652773
1,1-Dichloroethane	0.4	0.4850413	0.5	0.5112685	1	0.5003575	2	0.5003823	5	0.4782355	10	0.5122113
1,2-Dichloroethane					1	0.2971806	2	0.2630949	5	0.2252161	10	0.237279
1,1-Dichloroethylene	0.4	0.4068646	0.5	0.4194404	1	0.3885239	2	0.4047154	5	0.3732739	10	0.3942286
cis-1,2-Dichloroethylene	0.4	0.363673	0.5	0.3792225	1	0.3978008	2	0.3846644	5	0.3741922	10	0.3945649
trans-1,2-Dichloroethylene	0.4	0.404921	0.5	0.4066673	1	0.3980561	2	0.4038658	5	0.3861125	10	0.413028
Dichlorofluoromethane (Freon 21)	0.4	0.5139797	0.5	0.5150659	1	0.5275073	2	0.5159728	5	0.4997719	10	0.5417999
1,2-Dichloropropane	0.4	0.229829	0.5	0.2255425	1	0.2109429	2	0.1978198	5	0.1895812	10	0.2060005
1,3-Dichloropropane	0.4	0.2677082	0.5	0.2757391	1	0.2919298	2	0.2844924	5	0.2787031	10	0.302755
2,2-Dichloropropane	0.4	0.343157	0.5	0.3238149	1	0.3413733	2	0.312277	5	0.3127364	10	0.3324758
1,1-Dichloropropene	0.4	0.389372	0.5	0.3921681	1	0.375417	2	0.4033135	5	0.376999	10	0.4059826
cis-1,3-Dichloropropene	0.4	0.233092	0.5	0.2075173	1	0.2461	2	0.2528948	5	0.2422336	10	0.271418
trans-1,3-Dichloropropene	0.4	0.1762022	0.5	0.1683868	1	0.1859448	2	0.1825766	5	0.1872975	10	0.2166514
Diethyl Ether	0.4	0.2077514	0.5	0.2162794	1	0.202475	2	0.2003823	5	0.1900155	10	0.2107934
Difluorochloromethane (Freon 21)	0.4	0.4807222	0.5	0.4470579	1	0.3968646	2	0.3762107	5	0.3463491	10	0.4072837
Diisopropyl Ether (DIPE)	0.4	0.8465548	0.5	0.7945202	1	0.8400286	2	0.8320306	5	0.8004147	10	0.8676287
1,4-Dioxane									50	1.699438E-03	100	1.960179E-03
Ethanol							20	4.91079E-03	50	4.657261E-03	100	4.296234E-03
Ethyl Acetate	0.4	0.2537505	0.5	0.2846326	1	0.2457105	2	0.2400595	5	0.2455457	10	0.2736437
Ethylbenzene	0.4	1.76334	0.5	1.776006	1	1.774971	2	1.776834	5	1.699848	10	1.822044
Hexachlorobutadiene	0.4	0.1809211	0.5	0.1696157	1	0.197206	2	0.1876283	5	0.1877535	10	0.2157781
2-Hexanone (MBK)	4	0.1152833	5	0.1132618	10	0.1247964	20	0.1143355	50	0.1204317	100	0.1329821
Iodomethane					10	0.3196024	20	0.3304928	50	0.3372494	100	0.416201
Isopropylbenzene (Cumene)	0.4	1.708114	0.5	1.748357	1	1.742505	2	1.672392	5	1.646354	10	1.752444
p-Isopropyltoluene (p-Cymene)	0.4	1.289748	0.5	1.304801	1	1.389734	2	1.395961	5	1.298926	10	1.473808
Methyl Acetate	0.4	0.4176625	0.5	0.5228333	1	0.4569517	2	0.3555225	5	0.3453269	10	0.3865018
Methyl tert-Butyl Ether (MTBE)	0.4	0.6897694	0.5	0.7144296	1	0.7209607	2	0.685514	5	0.6799635	10	0.746141
Methyl Cyclohexane	0.4	0.3173626	0.5	0.3066556	1	0.3065977	2	0.3249795	5	0.302792	10	0.3385236

6 - FORM VI

INITIAL CALIBRATION DATA SHEET

183

SW-846 8260D

Client: NYDEC Environmental Assessment & Remediation

SDG: 23C3284

Project: Genzale Plating Co. - CO 144183

Calibration: 2300183

Instrument: GCMSVOA5

Calibration Date: 2/9/2023 10:07:26AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Methylene Chloride	0.4	0.3982263	0.5	0.4356657	1	0.4280997	2	0.3695837	5	0.3372182	10	0.3827844
4-Methyl-2-pentanone (MIBK)	4	0.1650796	5	0.1680559	10	0.1700213	20	0.1665584	50	0.1687011	100	0.1882938
Naphthalene	0.4	0.7726837	0.5	0.7427026	1	0.7953421	2	0.7232974	5	0.7322936	10	0.8653676
n-Propylbenzene	0.4	1.836178	0.5	1.821205	1	1.86067	2	1.836344	5	1.848391	10	2.012085
Styrene	0.4	0.8955509	0.5	0.9313993	1	0.9565338	2	0.9853305	5	0.9708278	10	1.064887
1,1,1,2-Tetrachloroethane	0.4	0.3191146	0.5	0.3197628	1	0.3240566	2	0.3352223	5	0.3381057	10	0.3663367
1,1,2,2-Tetrachloroethane	0.4	0.4310585	0.5	0.4385318	1	0.4795799	2	0.4553817	5	0.4547782	10	0.4847563
Tetrachloroethylene	0.4	0.2052855	0.5	0.2034103	1	0.2115136	2	0.2207558	5	0.2057409	10	0.2149866
Tetrahydrofuran			0.5	6.075844E-02	1	7.183223E-02	2	0.0713254	5	8.160602E-02	10	8.909331E-02
Toluene	0.4	0.8507928	0.5	0.821399	1	0.8209421	2	0.8058101	5	0.7695461	10	0.8135388
1,2,3-Trichlorobenzene	0.4	0.2467105	0.5	0.287107	1	0.2738972	2	0.2789811	5	0.2663633	10	0.3173785
1,2,4-Trichlorobenzene	0.4	0.3268914	0.5	0.3428942	1	0.3605736	2	0.3493769	5	0.3423967	10	0.4006734
1,3,5-Trichlorobenzene	0.4	0.4540159	0.5	0.4801082	1	0.4831686	2	0.4784945	5	0.4477853	10	0.510714
1,1,1-Trichloroethane	0.4	0.3809496	0.5	0.3583367	1	0.3885239	2	0.3892948	5	0.3749372	10	0.3999109
1,1,2-Trichloroethane	0.4	0.1509494	0.5	0.1470532	1	0.1600906	2	0.1662507	5	0.159302	10	0.1751265
Trichloroethylene	0.4	0.18514	0.5	0.2126511	1	0.2087741	2	0.2032618	5	0.202298	10	0.2048692
Trichlorofluoromethane (Freon 11)	0.4	0.4042731	0.5	0.3852638	1	0.3929495	2	0.4148258	5	0.404149	10	0.4238792
1,2,3-Trichloropropane	0.4	0.3322494	0.5	0.3209649	1	0.3647576	2	0.337082	5	0.3440738	10	0.3707118
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4	0.2954303	0.5	0.3043101	1	0.3024784	2	0.3178845	5	0.2949252	10	0.3248109
1,2,3-Trimethylbenzene	0.4	1.3223	0.5	1.335794	1	1.373785	2	1.388436	5	1.305696	10	1.470072
1,2,4-Trimethylbenzene	0.4	1.312706	0.5	1.315508	1	1.356866	2	1.342372	5	1.274312	10	1.447297
1,3,5-Trimethylbenzene	0.4	1.163321	0.5	1.152829	1	1.212079	2	1.247066	5	1.210704	10	1.335898
Vinyl Acetate	4	0.4142071	5	0.4075476	10	0.444347	20	0.4141461	50	0.4572709	100	0.524053
Vinyl Chloride	0.4	0.256126	0.5	0.277383	1	0.2603493	2	0.2651657	5	0.2191927	10	0.20797
m+p Xylene	0.8	1.364521	1	1.353222	2	1.376912	4	1.344459	10	1.339532	20	1.440601
o-Xylene	0.4	1.311385	0.5	1.305979	1	1.374286	2	1.311074	5	1.307735	10	1.406362
1,2-Dichloroethane-d4	25	0.5026047	25	0.4979949	25	0.5053551	25	0.5016585	25	0.5049558	25	0.5154596
Toluene-d8	25	1.146571	25	1.158284	25	1.162231	25	1.14848	25	1.175524	25	1.1655
4-Bromofluorobenzene	25	0.8454621	25	0.8326334	25	0.8405228	25	0.833631	25	0.8653774	25	0.8559604

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

184

SW-846 8260D

Client: NYDEC Environmental Assessment & Remediation

SDG: 23C3284

Project: Genzale Plating Co. - CO 144183

Calibration: 2300183

Instrument: GCMSVOA5

Calibration Date: 2/9/2023 10:07:26AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Acetone	200	7.559425E-02	500	7.438831E-02	1000	6.966059E-02	2000	6.853158E-02				
Acrolein	200	5.999618E-02	500	6.545994E-02	1000	0.0629712	2000	6.416702E-02				
Acrylonitrile	20	0.114175	50	0.1145496	100	0.1104652	200	0.1132524				
tert-Amyl Methyl Ether (TAME)	20	0.7140716	50	0.7510455	100	0.7750678	200	0.8074724				
Benzene	20	1.178247	50	1.154799	100	1.153751	200	1.157451				
Bromobenzene	20	0.6350937	50	0.6294684	100	0.6139572	200	0.5958358				
Bromochloromethane	20	0.2226899	50	0.2128832	100	0.1816094	200	0.1421913				
Bromodichloromethane	20	0.2293152	50	0.2440055	100	0.2452608	200	0.2568707				
Bromoform	20	0.2485078	50	0.2650796	100	0.2725108	200	0.2746737				
Bromomethane	20	0.1595644	50	0.1902821	100	0.2266938	200	0.2630614				
2-Butanone (MEK)	200	0.1378996	500	0.1383546	1000	0.1354	2000	0.1347041				
tert-Butyl Alcohol (TBA)	200	2.407996E-02	500	2.516738E-02	1000	2.363909E-02	2000	2.438994E-02				
n-Butylbenzene	20	1.304325	50	1.36174	100	1.350686	200	1.440308				
sec-Butylbenzene	20	1.751762	50	1.780706	100	1.755199	200	1.863937				
tert-Butylbenzene	20	1.221715	50	1.27829	100	1.271548	200	1.350148				
tert-Butyl Ethyl Ether (TBEE)	20	0.7933304	50	0.8155656	100	0.8173845	200	0.8340037				
Carbon Disulfide	200	0.8709736	500	0.9031626	1000	0.8073268	2000	0.6927968				
Carbon Tetrachloride	20	0.3576809	50	0.3691032	100	0.3740131	200	0.3779441				
Chlorobenzene	20	1.087137	50	1.071263	100	1.029969	200	0.9978138				
Chlorodibromomethane	20	0.1757092	50	0.1894772	100	0.1972621	200	0.2092243				
Chloroethane	20	0.1710931	50	0.1703633	100	0.1596575	200	0.1510723				
2-Chloroethyl Vinyl Ether	200	0.1205373	500	0.1247963	1000	0.1179733	2000	0.1198709				
Chloroform	20	0.5017984	50	0.5096219	100	0.5060257	200	0.5038658				
Chloromethane	20	0.2794386	50	0.3263806	100	0.410343						
2-Chlorotoluene	20	1.155412	50	1.147159	100	1.103419	200	1.063836				
4-Chlorotoluene	20	1.171558	50	1.168059	100	1.12673	200	1.086873				
Cyclohexane	20	0.5405242	50	0.549551	100	0.5407677	200	0.5432093				
1,2-Dibromo-3-chloropropane (DBCP)	20	6.286034E-02	50	6.907326E-02	100	7.040452E-02	200	7.906657E-02				
1,2-Dibromoethane (EDB)	20	0.1764741	50	0.182569	100	0.1832162	200	0.1896018				
Dibromomethane	20	0.1178605	50	0.1226598	100	0.1216289	200	0.1246032				
1,2-Dichlorobenzene	20	0.7348948	50	0.7583572	100	0.7486137	200	0.7964005				

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

185

SW-846 8260D

Client: NYDEC Environmental Assessment & Remediation

SDG: 23C3284

Project: Genzale Plating Co. - CO 144183

Calibration: 2300183

Instrument: GCMSVOA5

Calibration Date: 2/9/2023 10:07:26AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
1,3-Dichlorobenzene	20	0.814622	50	0.8342961	100	0.823903	200	0.868486				
1,4-Dichlorobenzene	20	0.8208031	50	0.8390231	100	0.8229943	200	0.8765128				
trans-1,4-Dichloro-2-butene	20	9.887262E-02	50	0.1099816	100	0.1094103	200	0.1112378				
Dichlorodifluoromethane (Freon 22)	20	0.3490626	50	0.3849402	100	0.3795786	200	0.3812529				
1,1-Dichloroethane	20	0.5112159	50	0.5099215	100	0.5032086	200	0.5020306				
1,2-Dichloroethane	20	0.2218381	50	0.2222896	100	0.2169972	200	0.2243686				
1,1-Dichloroethylene	20	0.3998775	50	0.3913554	100	0.3914808	200	0.3713041				
cis-1,2-Dichloroethylene	20	0.3919803	50	0.3920586	100	0.3890146	200	0.3851774				
trans-1,2-Dichloroethylene	20	0.4051249	50	0.4033662	100	0.4031351	200	0.404279				
Dichlorofluoromethane (Freon 21)	20	0.5287957	50	0.5304888	100	0.5304693	200	0.525321				
1,2-Dichloropropane	20	0.1986161	50	0.2038033	100	0.2039139	200	0.2072787				
1,3-Dichloropropane	20	0.2912349	50	0.295521	100	0.2926088	200	0.2997793				
2,2-Dichloropropane	20	0.3271824	50	0.3615848	100	0.3603084	200	0.3583259				
1,1-Dichloropropene	20	0.3984353	50	0.4102837	100	0.4069835	200	0.4103155				
cis-1,3-Dichloropropene	20	0.2743928	50	0.2929256	100	0.2994022	200	0.3096888				
trans-1,3-Dichloropropene	20	0.2104105	50	0.2340238	100	0.2410263	200	0.2559756				
Diethyl Ether	20	0.206005	50	0.2048537	100	0.1977389	200	0.2004708				
Difluorochloromethane (Freon 21)	20	0.3870109	50	0.3997973	100	0.4063574	200	0.4143185				
Diisopropyl Ether (DIPE)	20	0.8576678	50	0.8690389	100	0.8732783	200	0.8713116				
1,4-Dioxane	200	1.913109E-03	500	2.171127E-03	1000	2.114221E-03	2000	2.174723E-03				
Ethanol	200	4.657093E-03	500	3.58386E-03	1000	3.474294E-03	2000	3.579804E-03				
Ethyl Acetate	20	0.2523327	50	0.2683921	100	0.2643567	200	0.2689866				
Ethylbenzene	20	1.816509	50	1.817688	100	1.765398	200	1.675577				
Hexachlorobutadiene	20	0.2096798	50	0.2173058	100	0.2220855	200	0.2365594				
2-Hexanone (MBK)	200	0.1279302	500	0.1350001	1000	0.1290723	2000	0.1306658				
Iodomethane	200	0.4269313	500	0.4214829	1000	0.4152547	2000	0.3674666				
Isopropylbenzene (Cumene)	20	1.723057	50	1.707792	100	1.654783	200	1.591824				
p-Isopropyltoluene (p-Cymene)	20	1.432308	50	1.480005	100	1.493747	200	1.587402				
Methyl Acetate	20	0.3723415	50	0.3744856	100	0.3209961	200	0.323681				
Methyl tert-Butyl Ether (MTBE)	20	0.7144452	50	0.7524097	100	0.7400928	200	0.7763501				
Methyl Cyclohexane	20	0.327549	50	0.33549	100	0.3373554	200	0.3461596				

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

186

SW-846 8260D

Client: NYDEC Environmental Assessment & Remediation

SDG: 23C3284

Project: Genzale Plating Co. - CO 144183

Calibration: 2300183

Instrument: GCMSVOA5

Calibration Date: 2/9/2023 10:07:26AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Methylene Chloride	20	0.3359266	50	0.3057781	100	0.2787173	200	0.2523162				
4-Methyl-2-pentanone (MIBK)	200	0.1829019	500	0.1874409	1000	0.1794538	2000	0.1757176				
Naphthalene	20	0.8371792	50	0.9238118	100	0.9478433	200	1.028721				
n-Propylbenzene	20	2.012433	50	1.978485	100	1.964321	200	1.887041				
Styrene	20	1.06284	50	1.072094	100	1.058161	200	1.028206				
1,1,1,2-Tetrachloroethane	20	0.3701547	50	0.3733772	100	0.3745319	200	0.368299				
1,1,2,2-Tetrachloroethane	20	0.460833	50	0.4707183	100	0.4523204	200	0.4437165				
Tetrachloroethylene	20	0.2130432	50	0.2216868	100	0.2172105	200	0.2238153				
Tetrahydrofuran	20	7.898944E-02	50	8.237679E-02	100	0.08524	200	8.676215E-02				
Toluene	20	0.8032622	50	0.8033486	100	0.8018036	200	0.8064034				
1,2,3-Trichlorobenzene	20	0.3046314	50	0.3263837	100	0.332092	200	0.3577051				
1,2,4-Trichlorobenzene	20	0.3781297	50	0.4115669	100	0.4156212	200	0.4567369				
1,3,5-Trichlorobenzene	20	0.4926672	50	0.5163648	100	0.5237952	200	0.571524				
1,1,1-Trichloroethane	20	0.3963546	50	0.4042827	100	0.4069571	200	0.4141328				
1,1,2-Trichloroethane	20	0.1664531	50	0.1700034	100	0.1698089	200	0.1751088				
Trichloroethylene	20	0.2049903	50	0.2062227	100	0.2053471	200	0.2079805				
Trichlorofluoromethane (Freon)	20	0.4250851	50	0.4337114	100	0.4268339	200	0.4048281				
1,2,3-Trichloropropane	20	0.3556051	50	0.3553981	100	0.3424965	200	0.3385869				
1,1,2-Trichloro-1,2,2-trifluoroethane	20	0.3062404	50	0.3157092	100	0.2934708	200	0.2964019				
1,2,3-Trimethylbenzene	20	1.434714	50	1.464093	100	1.454903	200	1.536326				
1,2,4-Trimethylbenzene	20	1.411931	50	1.446231	100	1.42843	200	1.499487				
1,3,5-Trimethylbenzene	20	1.313229	50	1.304201	100	1.287181	200	1.262194				
Vinyl Acetate	200	0.4860374	500	0.5558301	1000	0.5435325	2000	0.5332756				
Vinyl Chloride	20	0.175841	50	0.2160274	100	0.1793858	200	0.1568248				
m+p Xylene	40	1.44897	100	1.421313	200	1.365529	400	1.29529				
o-Xylene	20	1.389576	50	1.377028	100	1.330078	200	1.262093				
1,2-Dichloroethane-d4	25	0.5111273	25	0.4848142	25	0.4743152	25	0.4729609				
Toluene-d8	25	1.150256	25	1.149841	25	1.142024	25	1.144389				
4-Bromofluorobenzene	25	0.8564193	25	0.8438089	25	0.8184165	25	0.7808279				

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

187

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Calibration:	2300183	Instrument:	GCMSVOA5
		Calibration Date:	2/9/2023 10:07:26AM

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Acetone	8.392821E-02	19.1			20	
Acrolein	6.210203E-02	4.3			20	
Acrylonitrile	0.123277	11.2			20	
tert-Amyl Methyl Ether (TAME)	0.7127068	7.2			20	
Benzene	1.203912	6.8			20	
Bromobenzene	0.6264453	3.2			20	
Bromochloromethane	0.2094073	13.4			20	
Bromodichloromethane	0.2306325	6.5			20	
Bromoform	0.2364857	13.5			20	
Bromomethane	0.1999593	18.7			20	
2-Butanone (MEK)	0.1339062	6.6			20	
tert-Butyl Alcohol (TBA)	2.396451E-02	6.6			20	
n-Butylbenzene	1.273736	8.4			20	
sec-Butylbenzene	1.722574	5.1			20	
tert-Butylbenzene	1.226052	5.3			20	
tert-Butyl Ethyl Ether (TBEE)	0.7787281	5.1			20	
Carbon Disulfide	0.8372281	7.7			20	
Carbon Tetrachloride	0.3451671	7.3			20	
Chlorobenzene	1.061214	3.1			20	
Chlorodibromomethane	0.1718025	13.2			20	
Chloroethane	0.1789061	10.0			20	
2-Chloroethyl Vinyl Ether	0.1169118	6.6			20	
Chloroform	0.5191691	6.0			20	
Chloromethane	0.353007	19.4			20	
2-Chlorotoluene	1.155565	3.9			20	
4-Chlorotoluene	1.131774	3.2			20	
Cyclohexane	0.5351902	4.0			20	
1,2-Dibromo-3-chloropropane (DBCP)	6.308667E-02	15.5			20	
1,2-Dibromoethane (EDB)	0.1715944	7.7			20	
Dibromomethane	0.1171663	5.4			20	
1,2-Dichlorobenzene	0.7349742	6.1			20	

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

188

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Calibration:	2300183	Instrument:	GCMSVOA5
		Calibration Date:	2/9/2023 10:07:26AM

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
1,3-Dichlorobenzene	0.8267141	3.9			20	
1,4-Dichlorobenzene	0.8565107	3.6			20	
trans-1,4-Dichloro-2-butene	9.627218E-02	14.6			20	
Dichlorodifluoromethane (Freon 12)	0.3557065	5.8			20	
1,1-Dichloroethane	0.5013873	2.3			20	
1,2-Dichloroethane	0.238533	11.7			20	
1,1-Dichloroethylene	0.3941065	3.7			20	
cis-1,2-Dichloroethylene	0.3852349	2.7			20	
trans-1,2-Dichloroethylene	0.4028556	1.7			20	
Dichlorofluoromethane (Freon 21)	0.5229172	2.3			20	
1,2-Dichloropropane	0.2073328	5.9			20	
1,3-Dichloropropane	0.2880472	3.9			20	
2,2-Dichloropropane	0.3373236	5.5			20	
1,1-Dichloropropene	0.396927	3.3			20	
cis-1,3-Dichloropropene	0.2629665	12.3			20	
trans-1,3-Dichloropropene	0.2058495	14.7			20	
Diethyl Ether	0.2036765	3.6			20	
Difluorochloromethane (Freon 22)	0.4061972	9.1			20	
Diisopropyl Ether (DIPE)	0.8452474	3.4			20	
1,4-Dioxane	2.005466E-03	9.3			20	
Ethanol	4.165619E-03	14.6			20	
Ethyl Acetate	0.2597411	5.6			20	
Ethylbenzene	1.768822	2.7			20	
Hexachlorobutadiene	0.2024533	10.4			20	
2-Hexanone (MBK)	0.1243759	6.5			20	
Iodomethane	0.3793351	12.0			20	
Isopropylbenzene (Cumene)	1.694762	3.1			20	
p-Isopropyltoluene (p-Cymene)	1.414644	6.9			20	
Methyl Acetate	0.3876303	16.3			20	
Methyl tert-Butyl Ether (MTBE)	0.7220076	4.4			20	
Methyl Cyclohexane	0.3243465	4.7			20	

6 - FORM VI

INITIAL CALIBRATION DATA SHEET (Continued)

189

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Calibration:	2300183	Instrument:	GCMSVOA5
		Calibration Date:	2/9/2023 10:07:26AM

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Methylene Chloride	0.3524316	17.5			20	
4-Methyl-2-pentanone (MIBK)	0.1752224	5.0			20	
Naphthalene	0.8369242	12.3			20	
n-Propylbenzene	1.905715	4.1			20	
Styrene	1.002583	6.3			20	
1,1,1,2-Tetrachloroethane	0.3488962	6.8			20	
1,1,2,2-Tetrachloroethane	0.4571675	3.8			20	
Tetrachloroethylene	0.2137449	3.4			20	
Tetrahydrofuran	7.866487E-02	11.6			20	
Toluene	0.8096847	2.5			20	
1,2,3-Trichlorobenzene	0.299125	11.5			20	
1,2,4-Trichlorobenzene	0.3784861	11.0			20	
1,3,5-Trichlorobenzene	0.4958638	7.3			20	
1,1,1-Trichloroethane	0.391368	4.3			20	
1,1,2-Trichloroethane	0.1640147	5.8			20	
Trichloroethylene	0.2041535	3.6			20	
Trichlorofluoromethane (Freon 11)	0.4115799	3.9			20	
1,2,3-Trichloropropane	0.3461926	4.4			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.3051662	3.6			20	
1,2,3-Trimethylbenzene	1.408612	5.3			20	
1,2,4-Trimethylbenzene	1.383514	5.3			20	
1,3,5-Trimethylbenzene	1.24887	5.0			20	
Vinyl Acetate	0.4780247	12.1			20	
Vinyl Chloride	0.2214266	19.0			20	
m+p Xylene	1.375035	3.5			20	
o-Xylene	1.33756	3.5			20	
1,2-Dichloroethane-d4	0.4971246	3.0			20	
Toluene-d8	1.15431	0.9			20	
4-Bromofluorobenzene	0.837306	2.9			20	

INITIAL CALIBRATION STANDARDS

190

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Sequence:	S083087	Instrument:	GCMSVOA5
Calibration:	2300183		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2007196	8260 STD 10PPB CLP	S083087-TUN1	E23V04106.D	02/09/23 10:07
2006160	0.4ppb 8260 Calibration Standard	S083087-CAL1	E23V04107.D	02/09/23 10:35
2006161	0.5ppb 8260 Calibration Standard	S083087-CAL2	E23V04108.D	02/09/23 11:03
2006162	1ppb 8260 Calibration Standard	S083087-CAL3	E23V04109.D	02/09/23 11:31
2006163	2ppb 8260 Calibration Standard	S083087-CAL4	E23V04110.D	02/09/23 11:58
2006164	5ppb 8260 Calibration Standard	S083087-CAL5	E23V04111.D	02/09/23 12:26
2006165	10ppb 8260 Calibration Standard	S083087-CAL6	E23V04112.D	02/09/23 12:53
2006166	20ppb 8260 Calibration Standard	S083087-CAL7	E23V04113.D	02/09/23 13:21
2006167	50ppb 8260 Calibration Standard	S083087-CAL8	E23V04114.D	02/09/23 13:48
2006168	100ppb 8260 Calibration Standard	S083087-CAL9	E23V04115.D	02/09/23 14:16
2006169	200ppb 8260 Calibration Standard	S083087-CALA	E23V04116.D	02/09/23 14:44
2006167	50ppb 8260 Calibration Standard	S083087-CAL8	E23V04117.D	02/09/23 15:12
2006168	100ppb 8260 Calibration Standard	S083087-CAL9	E23V04118.D	02/09/23 15:39
2006169	200ppb 8260 Calibration Standard	S083087-CALA	E23V04119.D	02/09/23 16:07

C:\msdchem\1\DATA\E020923\

Date		Filename	Lab ID	Sample Info
9 Feb 2023	7:34 am	E23V04101.D	BLK	1
9 Feb 2023	8:02 am	E23V04102.D	524STD 10PPB 2301697	1
9 Feb 2023	8:30 am	E23V04103.D	B0-BS1	1
9 Feb 2023	9:12 am	E23V04104.D	BLK	1
9 Feb 2023	9:40 am	E23V04105.D	BLK	1
9 Feb 2023	10:07 am	E23V04106.D	BFB (SURR2301045)	1
9 Feb 2023	10:35 am	E23V04107.D	8260STD 0.4PPB 2301697	1
9 Feb 2023	11:03 am	E23V04108.D	8260STD 0.5PPB 2301698	1
9 Feb 2023	11:31 am	E23V04109.D	8260STD 1.0PPB 2301699	1
9 Feb 2023	11:58 am	E23V04110.D	8260STD 2.0PPB 2301700	1
9 Feb 2023	12:26 pm	E23V04111.D	8260STD 5.0PPB 2301701	1
9 Feb 2023	12:53 pm	E23V04112.D	8260STD 10PPB 2301702	1
9 Feb 2023	1:21 pm	E23V04113.D	8260STD 20PPB 2301703	1
9 Feb 2023	1:48 pm	E23V04114.D	8260STD 50PPB 2301704	1
9 Feb 2023	2:16 pm	E23V04115.D	8260STD 100PPB 2301705	1
9 Feb 2023	2:44 pm	E23V04116.D	8260STD 200PPB 2301706	1
9 Feb 2023	3:12 pm	E23V04117.D	ETOH500PPB	1
9 Feb 2023	3:39 pm	E23V04118.D	ETOH1000PPB	1
9 Feb 2023	4:07 pm	E23V04119.D	ETOH2000PPB	1
9 Feb 2023	4:35 pm	E23V04120.D	BLK	1
9 Feb 2023	5:02 pm	E23V04121.D	BLK	1
9 Feb 2023	5:30 pm	E23V04122.D	BLK	1
9 Feb 2023	5:57 pm	E23V04123.D	ICV 2301668	1
9 Feb 2023	6:25 pm	E23V04124.D	CHECK	1
9 Feb 2023	6:52 pm	E23V04125.D	BLK	1
9 Feb 2023	7:19 pm	E23V04126.D	8260STD 10PPB 2301697	1
9 Feb 2023	7:47 pm	E23V04127.D	B0-BS1 @ RCP	1
9 Feb 2023	8:14 pm	E23V04128.D	B0-BS1 @ HCL	1
9 Feb 2023	8:42 pm	E23V04129.D	B0-BS1 @ HCL	1
9 Feb 2023	9:10 pm	E23V04130.D	BLK	1
9 Feb 2023	9:37 pm	E23V04131.D	BLK	1
9 Feb 2023	10:05 pm	E23V04132.D	B0-BLK1 @ HCL	1
9 Feb 2023	10:32 pm	E23V04133.D	23B0620-22	1
9 Feb 2023	10:59 pm	E23V04134.D	23B0620-23	1
9 Feb 2023	11:27 pm	E23V04135.D	23B0424-01	1
9 Feb 2023	11:54 pm	E23V04136.D	23B0624-03	1
10 Feb 2023	12:22 am	E23V04137.D	23B0624-05	1
10 Feb 2023	12:50 am	E23V04138.D	23B0624-02	1
10 Feb 2023	1:18 am	E23V04139.D	23B0624-04	1
10 Feb 2023	1:45 am	E23V04140.D	23B0624-06	1
10 Feb 2023	2:12 am	E23V04141.D	23B0624-01	1
10 Feb 2023	2:40 am	E23V04142.D	23B0919-04	1
10 Feb 2023	3:08 am	E23V04143.D	B330919-BLK1 @ 10X (TCLP)	10
10 Feb 2023	3:35 am	E23V04144.D	23B0343-01 @ 10X (TCLP)	10
10 Feb 2023	4:03 am	E23V04145.D	23B0620-18 @ 4X	4
10 Feb 2023	4:30 am	E23V04146.D	23B0620-19 @ 5X	5
10 Feb 2023	4:58 am	E23V04147.D	23B0620-21 @ 100X	100
10 Feb 2023	5:25 am	E23V04148.D	BLK	1
10 Feb 2023	5:53 am	E23V04149.D	23B0757-03 @ 50X	50
10 Feb 2023	6:21 am	E23V04150.D	23B0757-01 @ 200X	200
10 Feb 2023	6:49 am	E23V04151.D	23B0757-02 @ 200X	200
10 Feb 2023	7:17 am	E23V04152.D	23B0757-04 @ 200X	200
10 Feb 2023	7:44 am	E23V04153.D	23B0343-01 @ 10X MS (TCLP)	10
10 Feb 2023	8:12 am	E23V04154.D	CLEAN UP	1

Method Path : C:\msdchem\1\METHODS\
Method File : E020923W.m
Title : 8260 WATER 5MLS VOAMS 5973 #5
Last Update : Fri Feb 10 07:47:59 2023
Response Via : Initial Calibration

Calibration Files

0.4 =E23V04107.D 0.5 =E23V04108.D 1 =E23V04109.D 2 =E23V04110.D 5 =E23V04111.D 10 =E23V04112.D 20 =E23V04113.D
50 =E23V04114.D 100 =E23V04115.D 200 =E23V04116.D

Compound		0.4	0.5	1	2	5	10	20	50	100	200	Avg	%RSD
-----ISTD-----													
1) PENTAFLUOROBENZENE...													
2) S 1,2-DICHLOROET...		0.503	0.498	0.505	0.502	0.505	0.515	0.511	0.485	0.474	0.473	0.497	2.97
3) DICHLORODIFLUO...		0.344	0.341	0.326	0.349	0.337	0.365	0.349	0.385	0.380	0.381	0.356	5.80
4) DIFLUOROCHLORO...		0.481	0.447	0.397	0.376	0.346	0.407	0.387	0.400	0.406	0.414	0.406	9.09
5) P CHLOROMETHANE		0.468	0.426	0.357	0.300	0.272	0.336	0.279	0.326	0.410		0.353	19.43
6) C VINYL CHLORIDE		0.256	0.277	0.260	0.265	0.219	0.208	0.176	0.216	0.179	0.157	0.221	19.04#
7) BROMOMETHANE				0.217	0.169	0.174	0.160	0.190	0.227	0.263	0.200	0.200	18.69
8) CHLOROETHANE		0.205	0.172	0.199	0.182	0.179	0.201	0.171	0.170	0.160	0.151	0.179	9.99
9) Ethanol					0.005	0.005	0.004	0.005	0.004	0.003	0.004	0.004	14.59
10) FLUORODICHLORO...		0.514	0.515	0.528	0.516	0.500	0.542	0.529	0.530	0.530	0.525	0.523	2.26
11) TRICHLOROFLUOR...		0.404	0.385	0.393	0.415	0.404	0.424	0.425	0.434	0.427	0.405	0.412	3.85
12) DI ETHYL ETHER		0.208	0.216	0.202	0.200	0.190	0.211	0.206	0.205	0.198	0.200	0.204	3.58
13) ACROLEIN		0.065	0.063	0.062	0.059	0.057	0.062	0.060	0.065	0.063	0.064	0.062	4.30
14) ACETONE		0.107	0.114	0.096	0.078	0.078	0.078	0.076	0.074	0.070	0.069	0.084	19.08
15) C 1,1-DICHLOROET...		0.407	0.419	0.389	0.405	0.373	0.394	0.400	0.391	0.391	0.371	0.394	3.73#
16) 1,1,2-TRICL-1,...		0.295	0.304	0.302	0.318	0.295	0.325	0.306	0.316	0.293	0.296	0.305	3.59
17) IODOMETHANE				0.320	0.330	0.337	0.416	0.427	0.421	0.415	0.367	0.379	12.02
18) ALLYL CHLORIDE												0.000	-1.00
19) METHYL ACETATE		0.418	0.523	0.457	0.356	0.345	0.387	0.372	0.374	0.321	0.324	0.388	16.26
20) T-BUTYL ALCOHOL		0.025	0.023	0.025	0.021	0.023	0.026	0.024	0.025	0.024	0.024	0.024	6.60
21) ACRYLONITRILE		0.154	0.133	0.133	0.118	0.112	0.130	0.114	0.115	0.110	0.113	0.123	11.24
22) METHYLENE CHLO...		0.398	0.436	0.428	0.370	0.337	0.383	0.336	0.306	0.279	0.252	0.352	17.47
23) CARBON DISULFIDE		0.830	0.819	0.842	0.846	0.827	0.935	0.871	0.903	0.807	0.693	0.837	7.71
24) METHYL TERT-BU...		0.690	0.714	0.721	0.686	0.680	0.746	0.714	0.752	0.740	0.776	0.722	4.39
25) TRANS 1,2-DICH...		0.405	0.407	0.398	0.404	0.386	0.413	0.405	0.403	0.403	0.404	0.403	1.72
26) P 1,1-DICHLOROET...		0.485	0.511	0.500	0.500	0.478	0.512	0.511	0.510	0.503	0.502	0.501	2.30
27) PROPIONITRILE												0.000	-1.00
28) VINYL ACETATE		0.414	0.408	0.444	0.414	0.457	0.524	0.486	0.556	0.544	0.533	0.478	12.13
29) CHLOROPRENE												0.000	-1.00
30) DI ISOPROYL ETHER		0.847	0.795	0.840	0.832	0.800	0.868	0.858	0.869	0.873	0.871	0.845	3.41
31) 2-BUTANONE		0.129	0.149	0.141	0.120	0.121	0.134	0.138	0.138	0.135	0.135	0.134	6.64
32) METHACRYLONITRILE												0.000	-1.00
33) T-BUTYL ETHYL ...		0.741	0.729	0.774	0.741	0.737	0.806	0.793	0.816	0.817	0.834	0.779	5.08
34) CIS-1,2-DICHLOR...		0.364	0.379	0.398	0.385	0.374	0.395	0.392	0.392	0.389	0.385	0.385	2.70
35) 2,2-DICHLOROPR...		0.343	0.324	0.341	0.312	0.313	0.332	0.327	0.362	0.360	0.358	0.337	5.55
36) ETHYL ACETATE		0.254	0.285	0.246	0.240	0.246	0.274	0.252	0.268	0.264	0.269	0.260	5.55
37) BROMOCHLOROMET...		0.208	0.220	0.233	0.230	0.213	0.232	0.223	0.213	0.182	0.142	0.209	13.37
38) TETRAHYDROFURAN												0.079	11.56
39) T-BUTYL-FORMATE		0.061	0.072	0.071	0.082	0.082	0.089	0.079	0.082	0.085	0.087	0.000	-1.00
40) C CHLOROFORM		0.567	0.584	0.521	0.507	0.483	0.508	0.502	0.510	0.506	0.504	0.519	6.04#
41) ISOBUTANOL												0.000	-1.00
42) 1,1,1-TRICHLOR...		0.381	0.358	0.389	0.389	0.375	0.400	0.396	0.404	0.407	0.414	0.391	4.27
43) CYCLOHEXANE		0.556	0.551	0.498	0.529	0.497	0.547	0.541	0.550	0.541	0.543	0.535	3.96

Method Path : C:\msdchem\1\METHODS\

Method File : E020923W.m

Title : 8260 WATER 5MLS VOAMS 5973 #5

44)	CARBON TETRACH...	0.329	0.309	0.316	0.330	0.330	0.359	0.358	0.369	0.374	0.378	0.345	7.28
45)	1,1-DICHLOROPR...	0.389	0.392	0.375	0.403	0.377	0.406	0.398	0.410	0.407	0.410	0.397	3.28
46)	BENZENE	1.359	1.332	1.243	1.172	1.114	1.175	1.178	1.155	1.154	1.157	1.204	6.76
47)	T-AMYL-ALCOHOL											0.000	-1.00
48)	T-AMYLMETHYL E...	0.664	0.678	0.690	0.671	0.654	0.722	0.714	0.751	0.775	0.807	0.713	7.20
49)	1,4-DIFLUOROBENZEN...	-----ISTD-----											
50)	S	1.147	1.158	1.162	1.148	1.176	1.165	1.150	1.150	1.142	1.144	1.154	0.93
51)	TOLUENE SS	0.297	0.263	0.225	0.237	0.222	0.237	0.222	0.222	0.217	0.224	0.239	11.67
52)	1,2-DICHLOROET...											0.000	-1.00
53)	METHYL METHACR...	0.185	0.213	0.209	0.203	0.202	0.205	0.205	0.206	0.205	0.208	0.204	3.58
54)	TRICHLOROETHENE	0.317	0.307	0.307	0.325	0.303	0.339	0.328	0.335	0.337	0.346	0.324	4.73
55)	C	METHYLCYCLOHEXANE	0.230	0.226	0.211	0.198	0.190	0.206	0.199	0.204	0.207	0.207	5.93#
56)	1,2-DICHLOROPR...	0.105	0.110	0.117	0.120	0.111	0.121	0.118	0.123	0.122	0.125	0.117	5.36
57)	DIBROMOMETHANE												9.25
58)	1,4-DIOXANE	0.209	0.212	0.226	0.228	0.220	0.235	0.229	0.244	0.245	0.257	0.231	6.51
59)	BROMODICHLOROM...	0.110	0.103	0.113	0.126	0.121	0.125	0.125	0.118	0.120	0.117	0.117	6.62
60)	2-CHLOROETHYLIV...	0.165	0.168	0.170	0.167	0.169	0.188	0.183	0.187	0.179	0.176	0.175	5.02
61)	MIBK	0.233	0.208	0.246	0.253	0.242	0.271	0.274	0.293	0.299	0.310	0.263	12.29
62)	CIS-1,3-DICHLOR...	0.851	0.821	0.821	0.806	0.770	0.814	0.803	0.803	0.802	0.806	0.810	2.52#
63)	TOLUENE	0.176	0.168	0.186	0.183	0.187	0.217	0.210	0.234	0.241	0.256	0.206	14.70
64)	TRANS-1,3,-DIC...											0.000	-1.00
65)	ETHYL METHACRY...	0.151	0.147	0.160	0.166	0.159	0.175	0.166	0.170	0.170	0.175	0.164	5.83
66)	1,1,2-TRICHLOR...	0.115	0.113	0.125	0.114	0.120	0.133	0.128	0.135	0.129	0.131	0.124	6.48
67)	2-HEXANONE	0.205	0.203	0.212	0.221	0.206	0.215	0.213	0.222	0.217	0.224	0.214	3.40
68)	TETRACHLOROETHENE	0.268	0.276	0.292	0.284	0.279	0.303	0.291	0.296	0.293	0.300	0.288	3.87
69)	1,3-DICHLOROPR...	0.136	0.154	0.154	0.158	0.163	0.181	0.176	0.189	0.197	0.209	0.172	13.16
70)	DIBROMOCHLOROM...	0.152	0.152	0.165	0.170	0.164	0.181	0.176	0.183	0.183	0.190	0.172	7.71
71)	1,2-DIBROMOETHANE												
71)	CHLOROBENZENE-D5	-----ISTD-----											
72)	S	0.845	0.833	0.841	0.834	0.865	0.856	0.856	0.844	0.818	0.781	0.837	2.87
73)	T	4-BROMOFLUOROB...	1.039	1.084	1.083	1.084	1.037	1.099	1.087	1.071	1.030	0.998	3.10
74)	CHLOROBENZENE	0.319	0.320	0.324	0.335	0.338	0.366	0.370	0.373	0.375	0.368	0.349	6.79
75)	C	1,1,1,2-TETRAC...	1.763	1.776	1.775	1.777	1.700	1.822	1.817	1.818	1.765	1.769	2.74#
76)	ETHYLBENZENE	1.365	1.353	1.377	1.344	1.340	1.441	1.449	1.421	1.366	1.295	1.375	3.52
77)	M/P-XYLENES	1.311	1.306	1.374	1.311	1.308	1.406	1.390	1.377	1.330	1.262	1.338	3.47
78)	0-XYLENE	0.896	0.931	0.957	0.985	0.971	1.065	1.063	1.072	1.058	1.028	1.003	6.31
79)	P	STYRENE	0.192	0.199	0.211	0.219	0.246	0.249	0.265	0.273	0.275	0.236	13.46
80)	BROMOFORM	1.708	1.748	1.743	1.672	1.646	1.752	1.723	1.708	1.655	1.592	1.695	3.09
81)	ISOPROPYLBENZENE											0.000	-1.00
82)	CIS-1,4-DICHLOR...	0.431	0.439	0.480	0.455	0.455	0.485	0.461	0.471	0.452	0.444	0.457	3.79
83)	P	1,1,2,2-TETRAC...	0.073	0.081	0.090	0.096	0.099	0.110	0.109	0.111	0.096	0.096	14.58
84)	1,4-DICHLORO-2...	0.608	0.619	0.649	0.632	0.619	0.664	0.635	0.629	0.614	0.596	0.626	3.19
85)	BROMOBENZENE	0.332	0.321	0.365	0.337	0.344	0.371	0.356	0.355	0.342	0.339	0.346	4.42
86)	1,2,3-TRICHLOR...	1.836	1.821	1.861	1.836	1.848	2.012	2.012	1.978	1.964	1.887	1.906	4.06
87)	N-PROPYLBENZENE	1.175	1.172	1.218	1.169	1.148	1.204	1.155	1.147	1.103	1.064	1.156	3.91
88)	2-CHLOROTOLUENE	1.163	1.153	1.212	1.247	1.211	1.336	1.313	1.304	1.287	1.262	1.249	5.05
89)	1,3,5-TRIMETHY...	1.102	1.094	1.129	1.144	1.103	1.192	1.172	1.168	1.127	1.087	1.132	3.21
90)	4-CHLOROTOLUENE												
90)	1,4-DICHLOROBENZEN...	-----ISTD-----											
91)	TERT-BUTYLBENZENE	1.147	1.172	1.197	1.201	1.157	1.266	1.222	1.278	1.272	1.350	1.226	5.26
92)	1,2,4-TRIMETHY...	1.313	1.316	1.357	1.342	1.274	1.447	1.412	1.446	1.428	1.499	1.384	5.29
93)	SEC-BUTYLBENZENE	1.588	1.625	1.697	1.717	1.631	1.816	1.752	1.781	1.755	1.864	1.723	5.15

Method Path : C:\msdchem\1\METHODS\
 Method File : E020923W.m
 Title : 8260 WATER 5MLS VOAMS 5973 #5

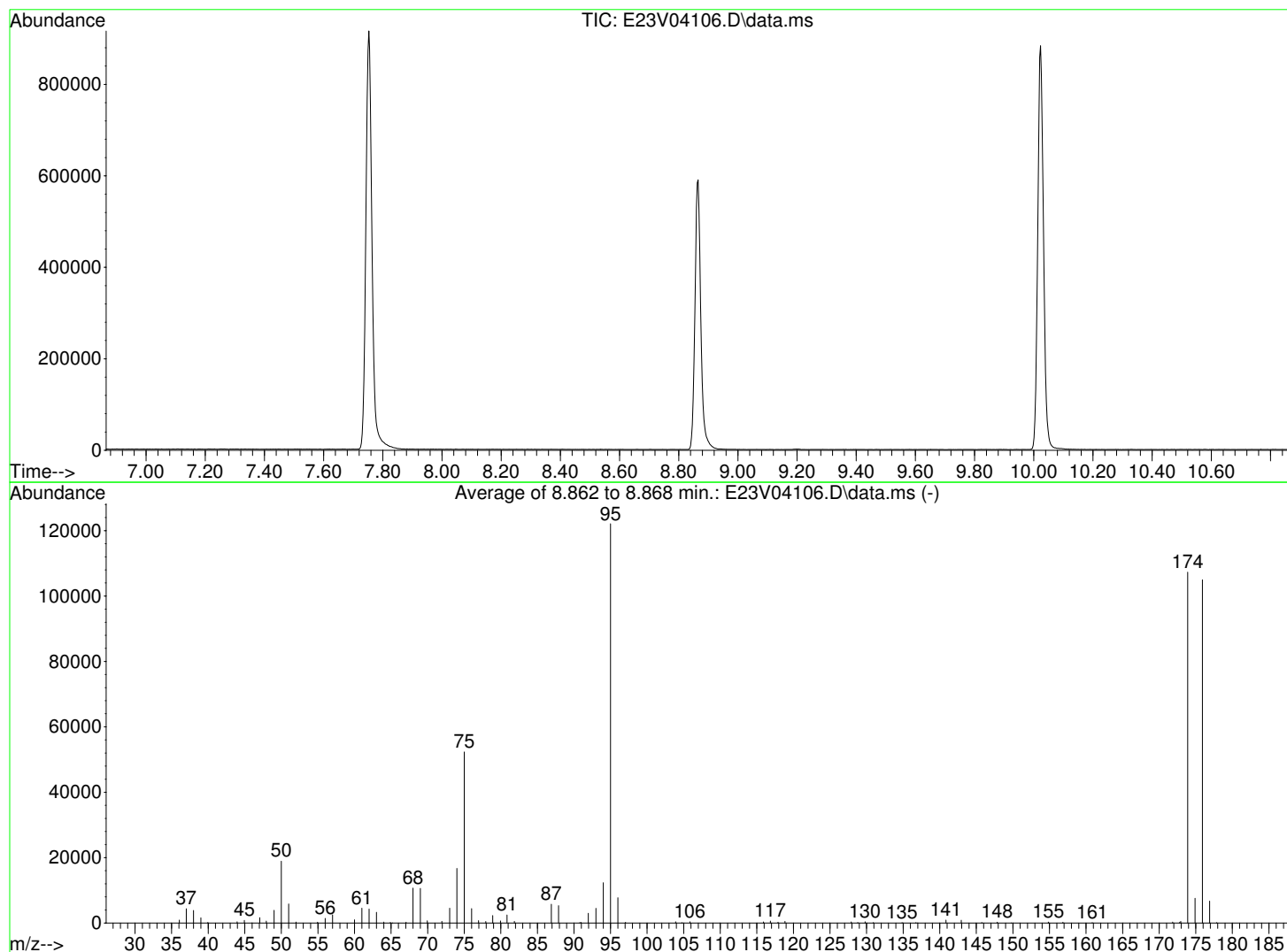
94)	1,3-DICHLOROBE...	0.820	0.794	0.867	0.821	0.767	0.857	0.815	0.834	0.824	0.868	0.827	3.87
95)	P-ISOPROPYLITOL...	1.290	1.305	1.390	1.396	1.299	1.474	1.432	1.480	1.494	1.587	1.415	6.92
96)	1,4-DICHLOROBE...	0.886	0.881	0.866	0.887	0.808	0.878	0.821	0.839	0.823	0.877	0.857	3.57
97)	1,2,3-TRIMETHY...	1.322	1.336	1.374	1.388	1.306	1.470	1.435	1.464	1.455	1.536	1.409	5.34
98)	N-BUTYLBENZENE	1.113	1.148	1.231	1.231	1.190	1.368	1.304	1.362	1.351	1.440	1.274	8.42
99)	1,2-DICHLOROBE...	0.682	0.656	0.780	0.742	0.691	0.760	0.735	0.758	0.749	0.796	0.735	6.12
100)	1,2-DIBROMO-3-...			0.051	0.052	0.055	0.065	0.063	0.069	0.070	0.079	0.063	15.53
101)	1,3,5-TRICHLOR...	0.454	0.480	0.483	0.478	0.448	0.511	0.493	0.516	0.524	0.572	0.496	7.34
102)	1,2,4-TRICHLOR...	0.327	0.343	0.361	0.349	0.342	0.401	0.378	0.412	0.416	0.457	0.378	10.96
103)	HEXACHLOROBUTA...	0.181	0.170	0.197	0.188	0.188	0.216	0.210	0.217	0.222	0.237	0.202	10.42
104)	NAPHTHALENE	0.773	0.743	0.795	0.723	0.732	0.865	0.837	0.924	0.948	1.029	0.837	12.34
105)	1,2,3-TRICHLOR...	0.247	0.287	0.274	0.279	0.266	0.317	0.305	0.326	0.332	0.358	0.299	11.49

(#) = Out of Range

Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04106.D
Acq On : 9 Feb 2023 10:07 am
Operator :
Sample : BFB(SURR2301045)
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Integration File: 8260B.P

Method : C:\msdchem\1\METHODS\E020923W.m
Title : 8260 WATER 5MLS VOAMS 5973 #5
Last Update : Fri Feb 10 07:47:59 2023



AutoFind: Scans 2878, 2879, 2880; Background Corrected with Scan 2865

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	18923	PASS
75	95	30	60	42.8	52320	PASS
95	95	100	100	100.0	122109	PASS
96	95	5	9	6.4	7769	PASS
173	174	0.00	2	0.5	538	PASS
174	95	50	100	87.9	107299	PASS
175	174	5	9	7.1	7590	PASS
176	174	95	101	97.8	104971	PASS
177	176	5	9	6.4	6699	PASS

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04107.D
 Acq On : 9 Feb 2023 10:35 am
 Operator :
 Sample : 8260STD 0.4PPB 2301697
 Misc : 1
 ALS Vial : 7 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 09 12:18:59 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	347290	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.869	114	528654	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	251242	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	218880	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.022	65	145458	24.92	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	99.68%		
50) TOLUENE SS	6.484	98	505116	24.57	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	98.28%		
72) 4-BROMOFLUOROBENZENE SS	8.865	95	177013	23.30	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	93.20%		
Target Compounds						
					Qvalue	
3) DICHLORODIFLUOROMETHANE	0.915	85	1592	0.30	UG/L #	42
4) DIFLUOROCHLOROMETHANE	0.887	51	2226	0.46	UG/L #	58
5) CHLOROMETHANE	0.990	50	2168	0.53	UG/L	100
6) VINYL CHLORIDE	1.060	62	1186	0.16	UG/L #	43
7) BROMOMETHANE	1.227	94	1745	0.45	UG/L	99
8) CHLOROETHANE	1.303	64	948	0.33	UG/L #	43
10) FLUORODICHLOROMETHANE	1.331	67	2380	0.27	UG/L #	71
11) TRICHLOROFLUOROMETHANE	1.568	101	1872	0.25	UG/L	96
12) DI ETHYL ETHER	1.729	59	962	0.33	UG/L #	81
13) ACROLEIN	1.584	56	3012	3.20	UG/L	86
14) ACETONE	1.668	43	4964m	3.56	UG/L	
15) 1,1-DICHLOROETHENE	1.871	61	1884	0.32	UG/L #	85
16) 1,1,2-TRICL-1,2,2-TRIF...	2.019	101	1368m	0.35	UG/L	
17) IODOMETHANE	1.883	142	16112	2.84	UG/L	91
19) METHYL ACETATE	2.056	43	1934	0.44	UG/L #	91
20) T-BUTYL ALCOHOL	1.950	59	1166	4.23	UG/L #	64
21) ACRYLONITRILE	1.941	53	712	0.55	UG/L #	7
22) METHYLENE CHLORIDE	1.986	49	1844	0.45	UG/L	92
23) CARBON DISULFIDE	2.072	76	38420	3.86	UG/L #	74
24) METHYL TERT-BUTYL ETHE...	2.608	73	3194	0.39	UG/L #	57
25) TRANS 1,2-DICHLOROETHENE	2.471	61	1875	0.42	UG/L	88
26) 1,1-DICHLOROETHANE	2.677	63	2246	0.41	UG/L #	86
28) VINYL ACETATE	2.901	43	19180	3.60	UG/L #	94
30) DI ISOPROYL ETHER	3.218	45	3920	0.46	UG/L #	43
31) 2-BUTANONE	3.191	43	5993m	4.73	UG/L	
33) T-BUTYL ETHYL ETHER	3.620	59	3430	0.41	UG/L	94
34) CIS-1,2-DICHLOROETHENE	3.255	61	1684	0.40	UG/L #	65
35) 2,2-DICHLOROPROPANE	3.511	77	1589m	0.37	UG/L	
36) ETHYL ACETATE	3.598	43	1175	0.44	UG/L #	66
37) BROMOCHLOROMETHANE	3.400	49	964	0.39	UG/L #	76
40) CHLOROFORM	3.472	83	2626	0.41	UG/L	98
42) 1,1,1-TRICHLOROETHANE	4.167	97	1764	0.35	UG/L #	45
43) CYCLOHEXANE	4.406	56	2573	0.49	UG/L #	64
44) CARBON TETRACHLORIDE	4.498	117	1523	0.37	UG/L	93
45) 1,1-DICHLOROPROPENE	4.367	75	1803	0.41	UG/L #	91
46) BENZENE	4.560	78	6292	0.48	UG/L	98
48) T-AMYL METHYL ETHER	4.814	73	3073	0.39	UG/L #	85
51) 1,2-DICHLOROETHANE	4.097	62	2559	0.50	UG/L #	1
53) TRICHLOROETHENE	5.184	95	1305	0.35	UG/L	96
54) METHYLCYCLOHEXANE	5.622	83	2237	0.40	UG/L	92
55) 1,2-DICHLOROPROPANE	5.137	63	1620	0.48	UG/L #	66
56) DIBROMOMETHANE	5.095	93	743	0.33	UG/L	97
58) BROMODICHLOROMETHANE	5.226	83	1474m	0.33	UG/L	

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04107.D
 Acq On : 9 Feb 2023 10:35 am
 Operator :
 Sample : 8260STD 0.4PPB 2301697
 Misc : 1
 ALS Vial : 7 Sample Multiplier: 1

Inst : GCMSVOA5

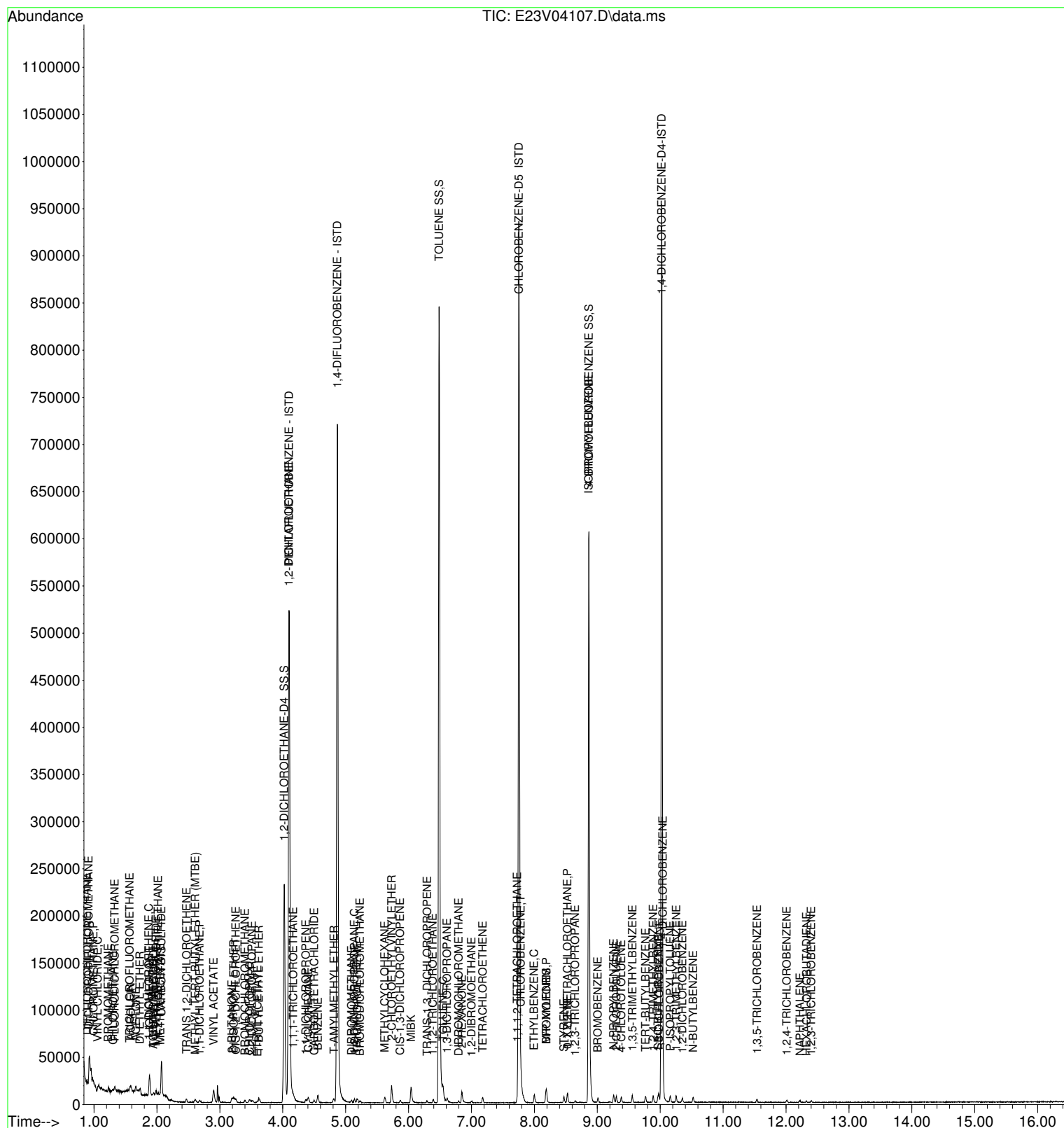
Quant Time: Feb 09 12:18:59 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59)	2-CHLOROETHYLVINYLETHER	5.731	63	7238	4.63	UG/L	97
60)	MIBK	6.038	43	11636m	4.08	UG/L	
61)	CIS-1,3-DICHLOROPROPENE	5.865	75	1643	0.35	UG/L #	50
62)	TOLUENE	6.548	91	5997	0.42	UG/L	97
63)	TRANS-1,3,-DICHLOROPRO...	6.294	75	1242m	0.33	UG/L	
65)	1,1,2-TRICHLOROETHANE	6.386	97	1064	0.36	UG/L	99
66)	2-HEXANONE	6.846	43	8126m	4.09	UG/L	
67)	TETRACHLOROETHENE	7.178	166	1447	0.35	UG/L #	66
68)	1,3-DICHLOROPROPANE	6.612	76	1887	0.38	UG/L	99
69)	DIBROMOCHLOROMETHANE	6.796	129	961	0.29	UG/L	100
70)	1,2-DIBROMOETHANE	7.000	107	1071	0.33	UG/L #	96
73)	CHLOROBENZENE	7.781	112	3482	0.39	UG/L #	60
74)	1,1,1,2-TETRACHLOROETHANE	7.728	131	1069	0.34	UG/L #	1
75)	ETHYLBENZENE	7.995	91	5907	0.40	UG/L	96
76)	M/P-XYLENES	8.191	91	9142	0.78	UG/L	99
77)	O-XYLENE	8.522	91	4393	0.38	UG/L	96
78)	STYRENE	8.467	104	3000	0.36	UG/L	99
79)	BROMOFORM	8.191	173	480m	0.20	UG/L	
80)	ISOPROPYLBENZENE	8.863	105	5722	0.39	UG/L	96
82)	1,1,2,2-TETRACHLOROETHANE	8.522	83	1444	0.38	UG/L #	92
84)	BROMOBENZENE	9.008	77	2036	0.39	UG/L	86
85)	1,2,3-TRICHLOROPROPANE	8.648	75	1113	0.40	UG/L #	36
86)	N-PROPYLBENZENE	9.259	91	6151	0.38	UG/L	98
87)	2-CHLOROTOLUENE	9.303	91	3937	0.40	UG/L	89
88)	1,3,5-TRIMETHYLBENZENE	9.557	105	3897	0.36	UG/L	99
89)	4-CHLOROTOLUENE	9.381	91	3691	0.38	UG/L	93
91)	TERT-BUTYLBENZENE	9.766	119	3347	0.41	UG/L	98
92)	1,2,4-TRIMETHYLBENZENE	9.889	105	3831	0.42	UG/L	98
93)	SEC-BUTYLBENZENE	9.964	105	4634	0.40	UG/L	96
94)	1,3-DICHLOROBENZENE	9.981	146	2392	0.42	UG/L	94
95)	P-ISOPROPYLTOLUENE	10.159	119	3764	0.40	UG/L	95
96)	1,4-DICHLOROBENZENE	10.042	146	2586	0.44	UG/L #	35
97)	1,2,3-TRIMETHYLBENZENE	10.254	105	3859	0.42	UG/L #	87
98)	N-BUTYLBENZENE	10.525	91	3248	0.38	UG/L	97
99)	1,2-DICHLOROBENZENE	10.352	146	1990	0.40	UG/L	99
101)	1,3,5-TRICHLOROBENZENE	11.537	180	1325	0.41	UG/L	94
102)	1,2,4-TRICHLOROBENZENE	12.011	180	954	0.41	UG/L	91
103)	HEXACHLOROBUTADIENE	12.323	225	528	0.39	UG/L #	45
104)	NAPHTHALENE	12.220	128	2255	0.50	UG/L #	68
105)	1,2,3-TRICHLOROBENZENE	12.399	180	720	0.42	UG/L	97

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

198

Quant Time: Feb 09 12:18:59 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Wed Jan 11 13:11:09 2023
Response via : Initial Calibration



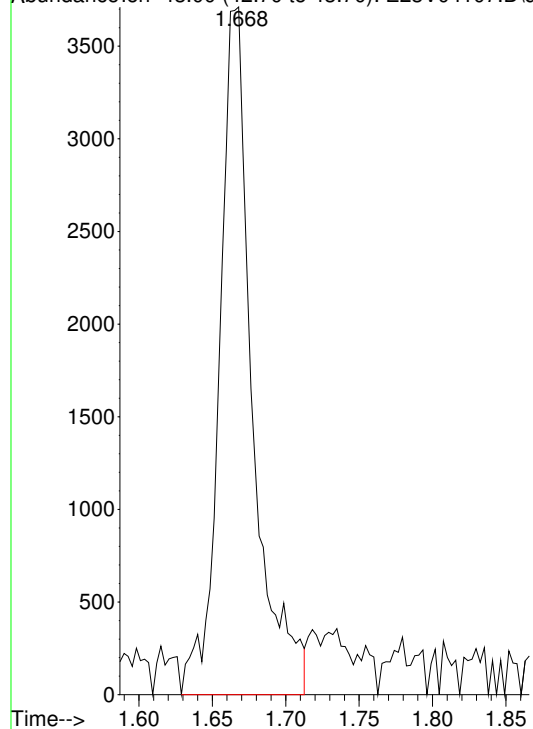
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04107.D
Acq On : 9 Feb 2023 10:35 am
Operator :
Sample : 8260STD 0.4PPB 2301697
Misc : 1

Quant Time : Thu Feb 09 12:18:59 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

ACETONE

Abundance on 43.00 (42.70 to 43.70): E23V04107.D\



Original Int. Results

RT : 1.67
Area : 5792
Amount: 4.15632

Manual Int. Results

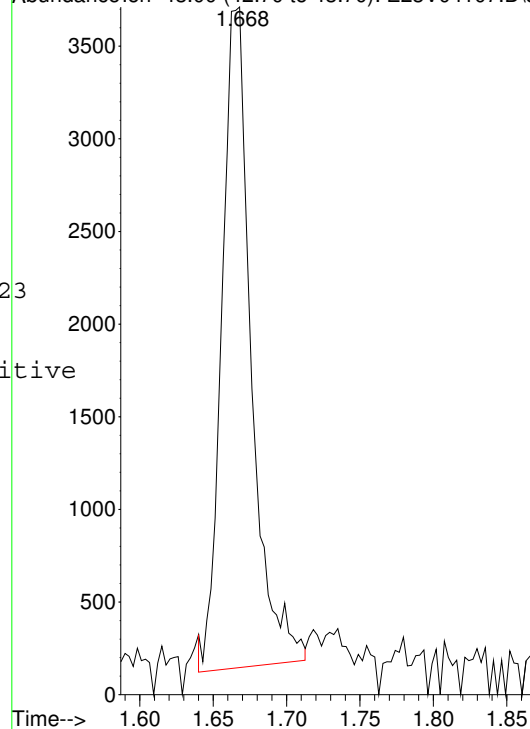
Thu Feb 09 12:17:16 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 1.67
Area : 4964
Amount: 3.56215

Manual Integration

ACETONE

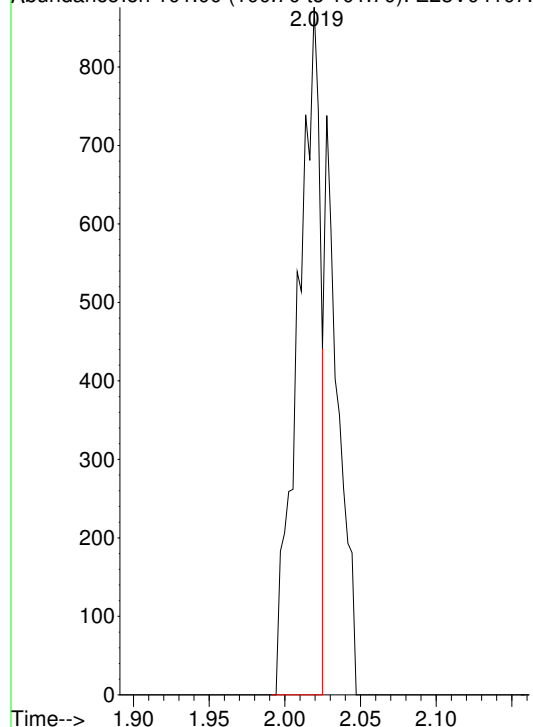
Abundance on 43.00 (42.70 to 43.70): E23V04107.D\



Original Integration

1,1,2-TRICL-1,2,2-TRIFLETHANE

Abundance on 101.00 (100.70 to 101.70): E23V04107.I



Original Int. Results

RT : 2.02
Area : 911
Amount: 0.233868

Manual Int. Results

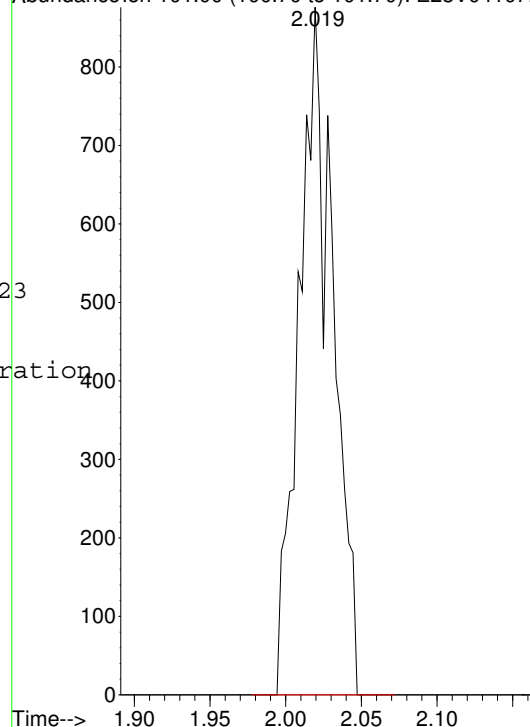
Thu Feb 09 12:17:11 2023

MIuser: EEH
Reason: Incoret Integration
RT : 2.02
Area : 1368
Amount: 0.351187

Manual Integration

1,1,2-TRICL-1,2,2-TRIFLETHANE

Abundance on 101.00 (100.70 to 101.70): E23V04107.I



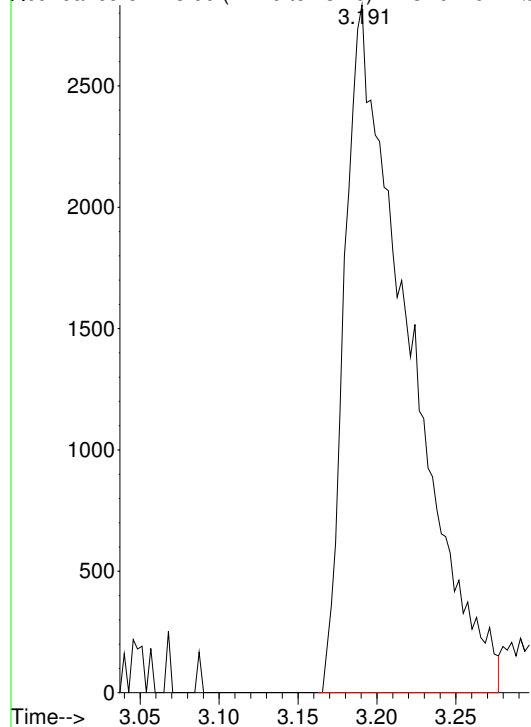
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04107.D
Acq On : 9 Feb 2023 10:35 am
Operator :
Sample : 8260STD 0.4PPB 2301697
Misc : 1

Quant Time : Thu Feb 09 12:18:59 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V04107.D



Original Int. Results

RT : 3.19
Area : 7902
Amount: 6.23766

Manual Int. Results

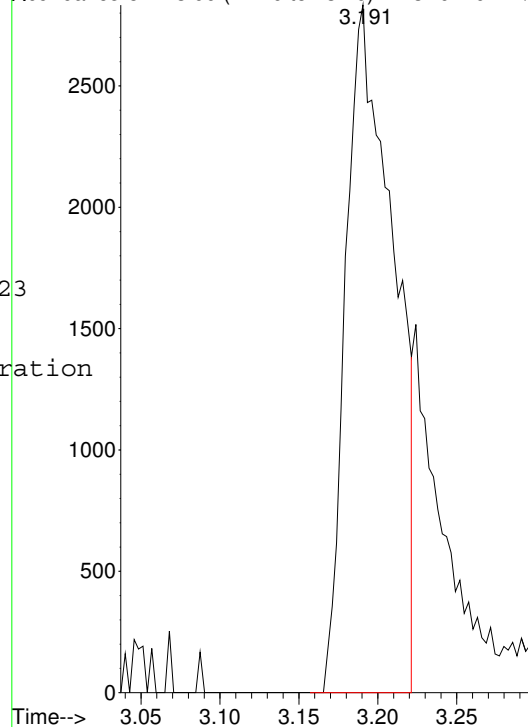
Thu Feb 09 12:17:33 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.19
Area : 5993
Amount: 4.73074

Manual Integration

2-BUTANONE

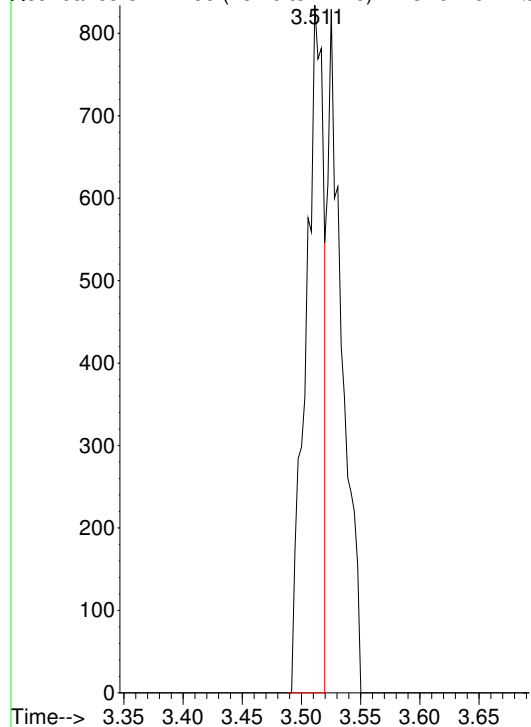
Abundance on 43.00 (42.70 to 43.70): E23V04107.D



Original Integration

2,2-DICHLOROPROPANE

Abundance on 77.00 (76.70 to 77.70): E23V04107.D



Original Int. Results

RT : 3.51
Area : 867
Amount: 0.202146

Manual Int. Results

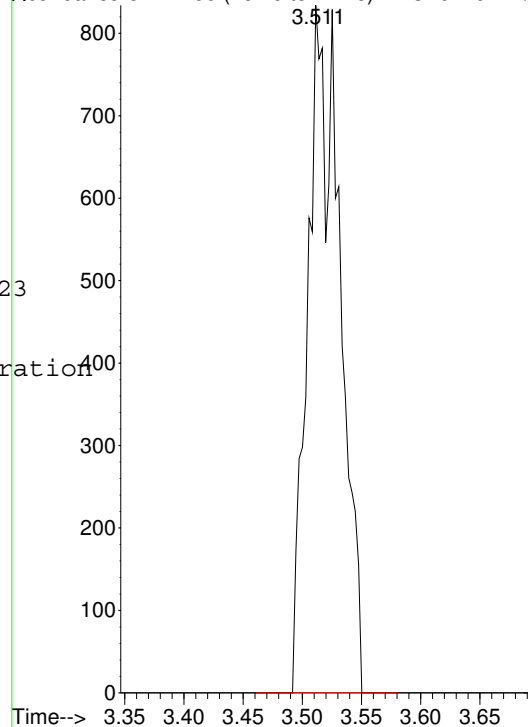
Thu Feb 09 12:17:40 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.51
Area : 1589
Amount: 0.370484

Manual Integration

2,2-DICHLOROPROPANE

Abundance on 77.00 (76.70 to 77.70): E23V04107.D

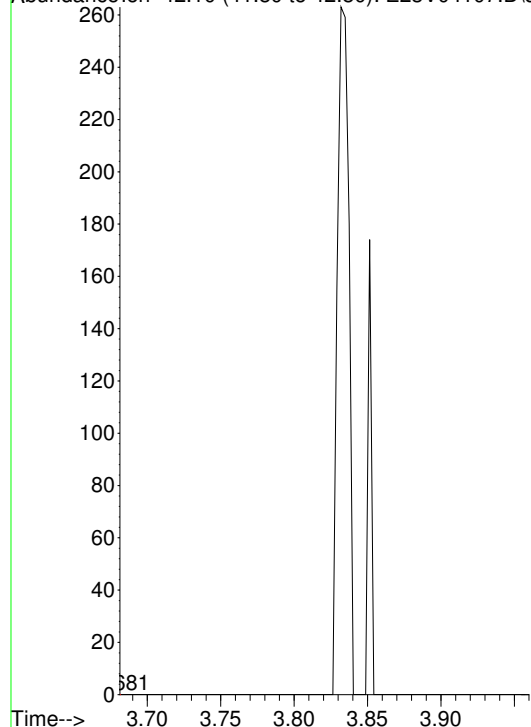


Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04107.D
Acq On : 9 Feb 2023 10:35 am
Operator :
Sample : 8260STD 0.4PPB 2301697
Misc : 1

Quant Time : Thu Feb 09 12:18:59 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration
TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04107.D



Original Int. Results

RT : 0.00
Area : 0
Amount: 0

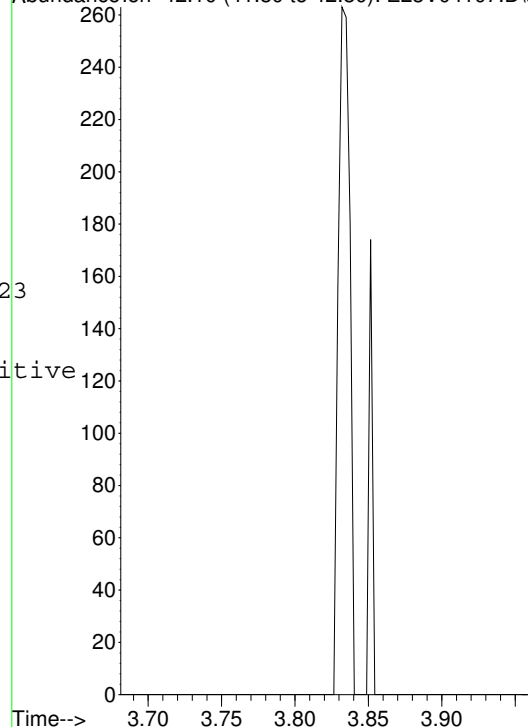
Manual Int. Results

Thu Feb 09 12:17:47 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

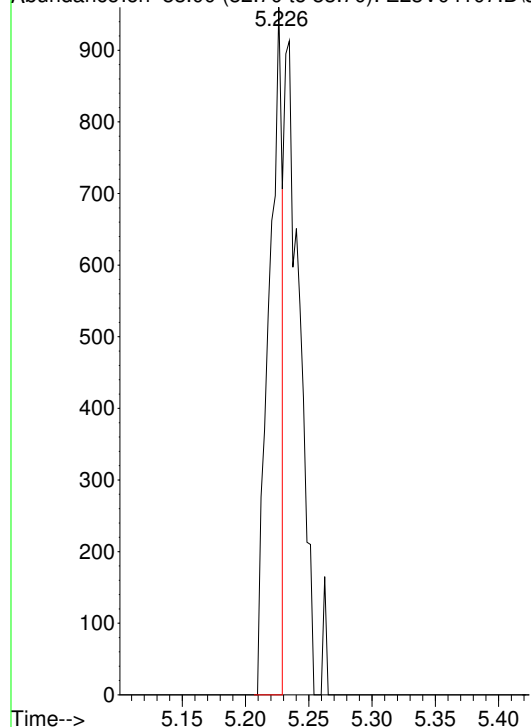
Manual Integration
TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04107.D



Original Integration
BROMODICHLOROMETHANE

Abundance on 83.00 (82.70 to 83.70): E23V04107.D



Original Int. Results

RT : 5.23
Area : 703
Amount: 0.159324

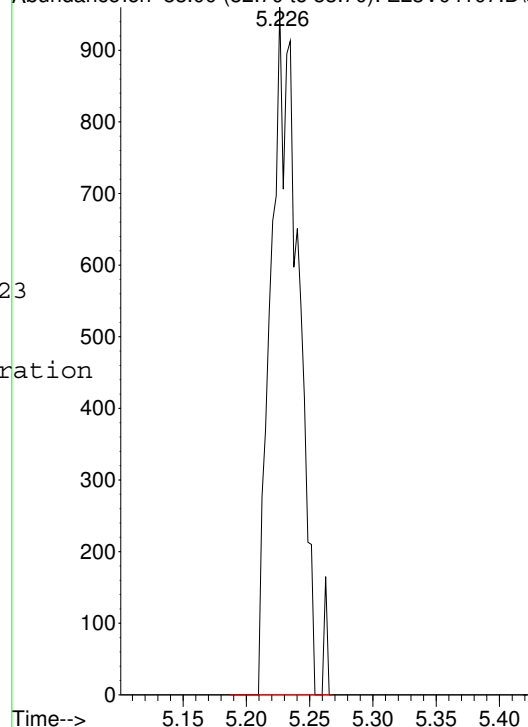
Manual Int. Results

Thu Feb 09 12:18:11 2023

MIuser: EEH
Reason: Incoret Integration
RT : 5.23
Area : 1474
Amount: 0.334058

Manual Integration
BROMODICHLOROMETHANE

Abundance on 83.00 (82.70 to 83.70): E23V04107.D



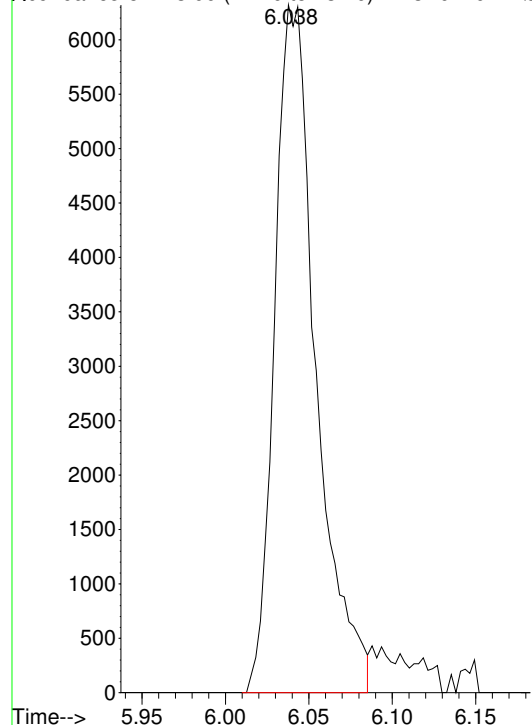
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04107.D
Acq On : 9 Feb 2023 10:35 am
Operator :
Sample : 8260STD 0.4PPB 2301697
Misc : 1

Quant Time : Thu Feb 09 12:18:59 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

MIBK

Abundance 43.00 (42.70 to 43.70): E23V04107.D



Original Int. Results

RT : 6.04
Area : 10867
Amount: 3.80652

Manual Int. Results

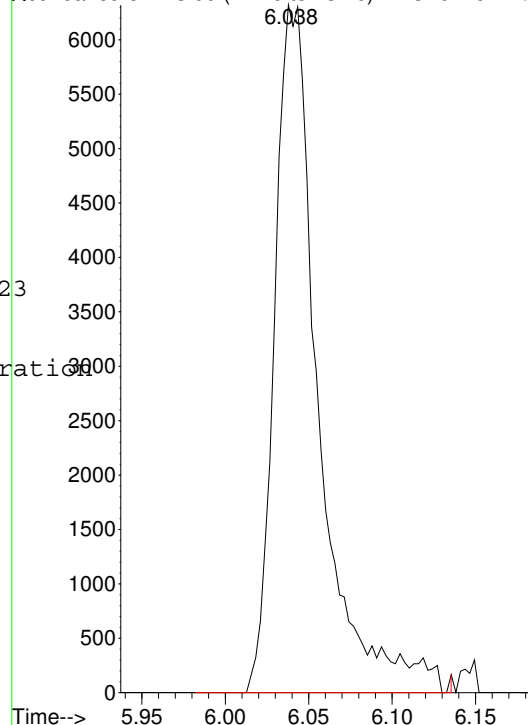
Thu Feb 09 12:18:16 2023

MIuser: EEH
Reason: Incoret Integration
RT : 6.04
Area : 11636
Amount: 4.07588

Manual Integration

MIBK

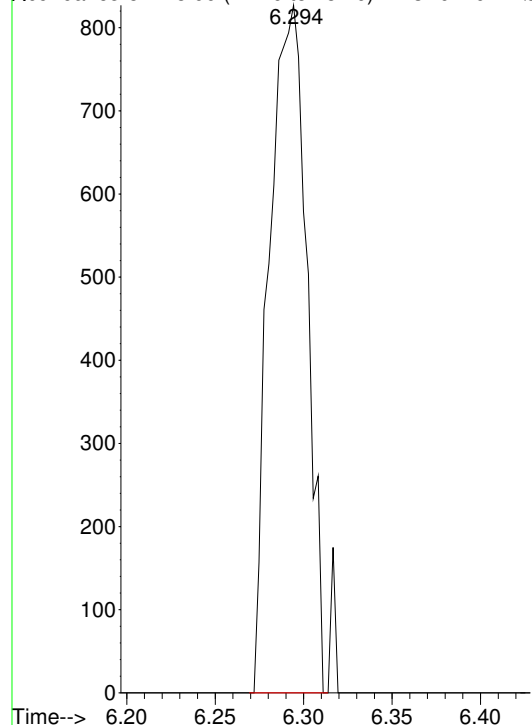
Abundance 43.00 (42.70 to 43.70): E23V04107.D



Original Integration

TRANS-1,3,-DICHLOROPROPENE

Abundance 75.00 (74.70 to 75.70): E23V04107.D



Original Int. Results

RT : 6.29
Area : 1213
Amount: 0.322422

Manual Int. Results

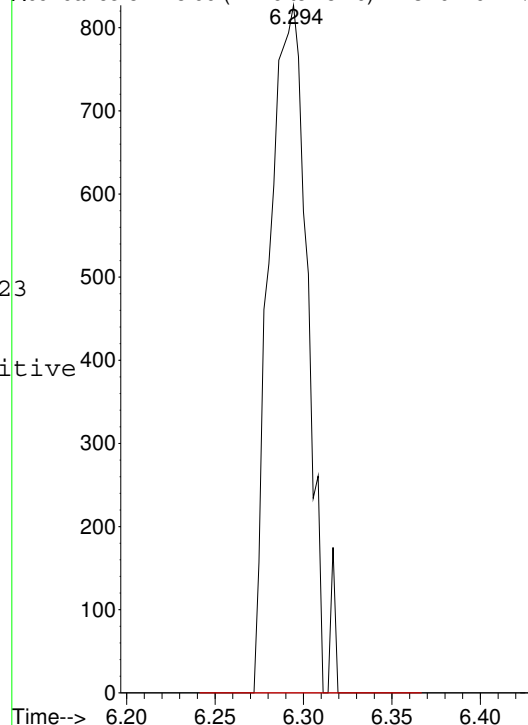
Thu Feb 09 12:18:44 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 6.29
Area : 1242
Amount: 0.33013

Manual Integration

TRANS-1,3,-DICHLOROPROPENE

Abundance 75.00 (74.70 to 75.70): E23V04107.D



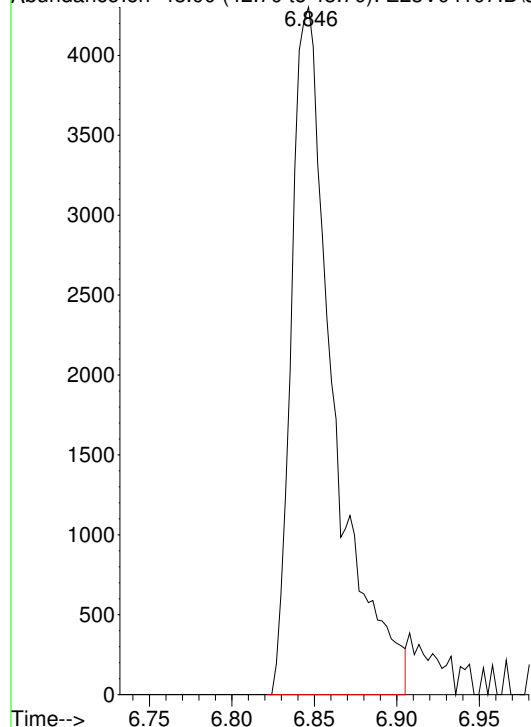
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04107.D
Acq On : 9 Feb 2023 10:35 am
Operator :
Sample : 8260STD 0.4PPB 2301697
Misc : 1

Quant Time : Thu Feb 09 12:18:59 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-HEXANONE

Abundance on 43.00 (42.70 to 43.70): E23V04107.D



Original Int. Results

RT : 6.85
Area : 7597
Amount: 3.8264

Manual Int. Results

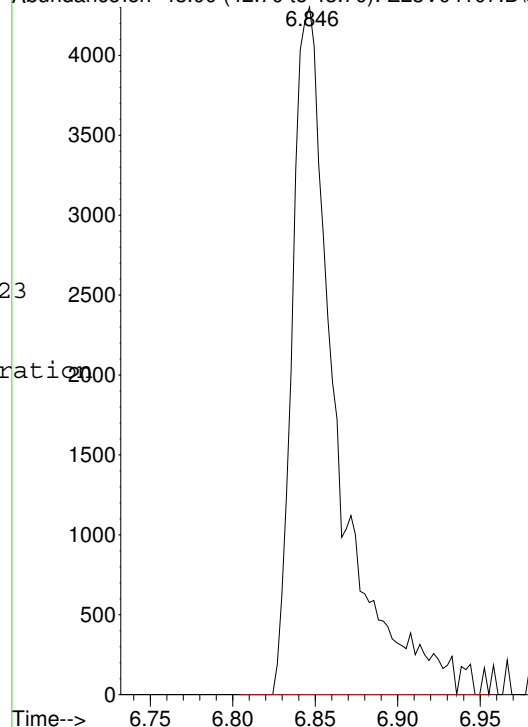
Thu Feb 09 12:18:49 2023

MIuser: EEH
Reason: Incoret Integration
RT : 6.85
Area : 8126
Amount: 4.09284

Manual Integration

2-HEXANONE

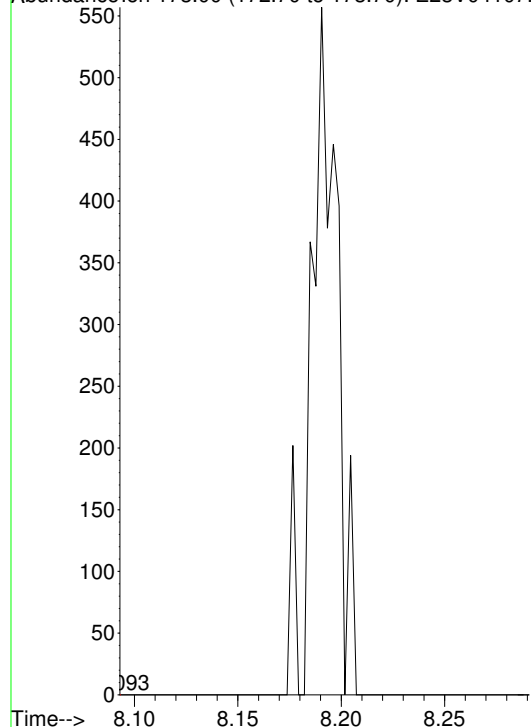
Abundance on 43.00 (42.70 to 43.70): E23V04107.D



Original Integration

BROMOFORM

Abundance on 173.00 (172.70 to 173.70): E23V04107.I



Original Int. Results

RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

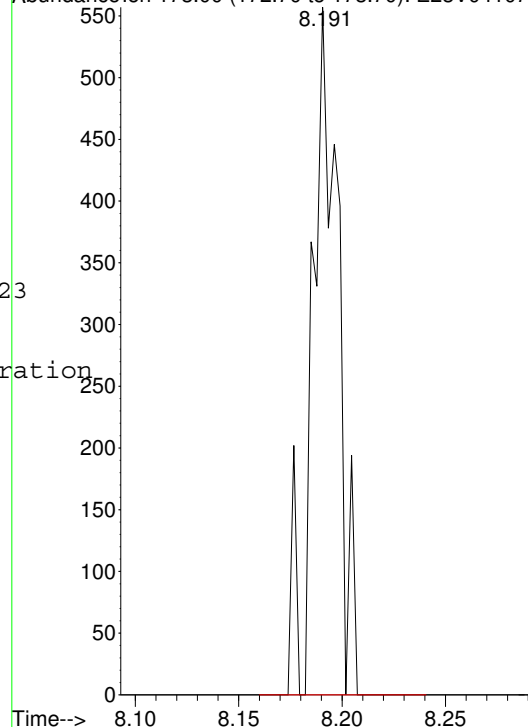
Thu Feb 09 12:18:59 2023

MIuser: EEH
Reason: Incoret Integration
RT : 8.19
Area : 480
Amount: 0.198032

Manual Integration

BROMOFORM

Abundance on 173.00 (172.70 to 173.70): E23V04107.I



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04108.D
 Acq On : 9 Feb 2023 11:03 am
 Operator :
 Sample : 8260STD 0.5PPB 2301698
 Misc : 1
 ALS Vial : 8 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 09 12:21:26 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.102	168	347606	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.869	114	525932	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	249560	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	212952	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.024	65	144255	24.69	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	98.76%		
50) TOLUENE SS	6.487	98	507649	24.82	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	99.28%		
72) 4-BROMOFLUOROBENZENE SS	8.865	95	173160	22.94	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	91.76%		
Target Compounds						
					Qvalue	
3) DICHLORODIFLUOROMETHANE	0.915	85	1976	0.37	UG/L	100
4) DIFLUOROCHLOROMETHANE	0.887	51	2590	0.53	UG/L #	58
5) CHLOROMETHANE	0.990	50	2470	0.61	UG/L	92
6) VINYL CHLORIDE	1.060	62	1607	0.21	UG/L #	56
7) BROMOMETHANE	1.230	94	2133	0.55	UG/L	93
8) CHLOROETHANE	1.300	64	994	0.34	UG/L #	4
10) FLUORODICHLOROMETHANE	1.328	67	2984	0.34	UG/L #	85
11) TRICHLOROFLUOROMETHANE	1.576	101	2232	0.29	UG/L	93
12) DI ETHYL ETHER	1.732	59	1253	0.43	UG/L #	68
13) ACROLEIN	1.587	56	3672	3.90	UG/L	90
14) ACETONE	1.662	43	6614	4.74	UG/L	99
15) 1,1-DICHLOROETHENE	1.869	61	2430	0.41	UG/L	90
16) 1,1,2-TRICL-1,2,2-TRIF...	2.022	101	1763	0.45	UG/L	92
17) IODOMETHANE	1.883	142	20084	3.54	UG/L	90
19) METHYL ACETATE	2.050	43	3029	0.69	UG/L #	85
20) T-BUTYL ALCOHOL	1.944	59	1337m	4.84	UG/L	
21) ACRYLONITRILE	1.952	53	770	0.59	UG/L #	7
22) METHYLENE CHLORIDE	1.983	49	2524	0.61	UG/L #	83
23) CARBON DISULFIDE	2.075	76	47436	4.76	UG/L #	77
24) METHYL TERT-BUTYL ETHE...	2.610	73	4139	0.51	UG/L #	57
25) TRANS 1,2-DICHLOROETHENE	2.468	61	2356	0.52	UG/L	88
26) 1,1-DICHLOROETHANE	2.680	63	2962	0.54	UG/L #	88
28) VINYL ACETATE	2.898	43	23611	4.43	UG/L	96
30) DI ISOPROYL ETHER	3.221	45	4603	0.54	UG/L #	86
31) 2-BUTANONE	3.193	43	8616m	6.80	UG/L	
33) T-BUTYL ETHYL ETHER	3.625	59	4221	0.50	UG/L #	87
34) CIS-1,2-DICHLOROETHENE	3.257	61	2197	0.52	UG/L #	84
35) 2,2-DICHLOROPROPANE	3.519	77	1876	0.44	UG/L #	55
36) ETHYL ACETATE	3.592	43	1649m	0.61	UG/L	
37) BROMOCHLOROMETHANE	3.397	49	1273	0.52	UG/L #	73
38) TETRAHYDROFURAN	3.832	42	352m	0.43	UG/L	
40) CHLOROFORM	3.475	83	3383	0.52	UG/L #	64
42) 1,1,1-TRICHLOROETHANE	4.169	97	2076	0.42	UG/L #	44
43) CYCLOHEXANE	4.403	56	3195	0.60	UG/L	87
44) CARBON TETRACHLORIDE	4.498	117	1791	0.43	UG/L	98
45) 1,1-DICHLOROPROPENE	4.370	75	2272	0.51	UG/L #	82
46) BENZENE	4.560	78	7717	0.59	UG/L #	91
48) T-AMYL METHYL ETHER	4.808	73	3928	0.50	UG/L #	64
51) 1,2-DICHLOROETHANE	4.102	62	2999	0.59	UG/L #	1
53) TRICHLOROETHENE	5.181	95	1864	0.50	UG/L	86
54) METHYLCYCLOHEXANE	5.628	83	2688	0.48	UG/L #	87
55) 1,2-DICHLOROPROPANE	5.145	63	1977	0.59	UG/L	91
56) DIBROMOMETHANE	5.095	93	962	0.43	UG/L #	42

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04108.D
 Acq On : 9 Feb 2023 11:03 am
 Operator :
 Sample : 8260STD 0.5PPB 2301698
 Misc : 1
 ALS Vial : 8 Sample Multiplier: 1

Inst : GCMSVOA5

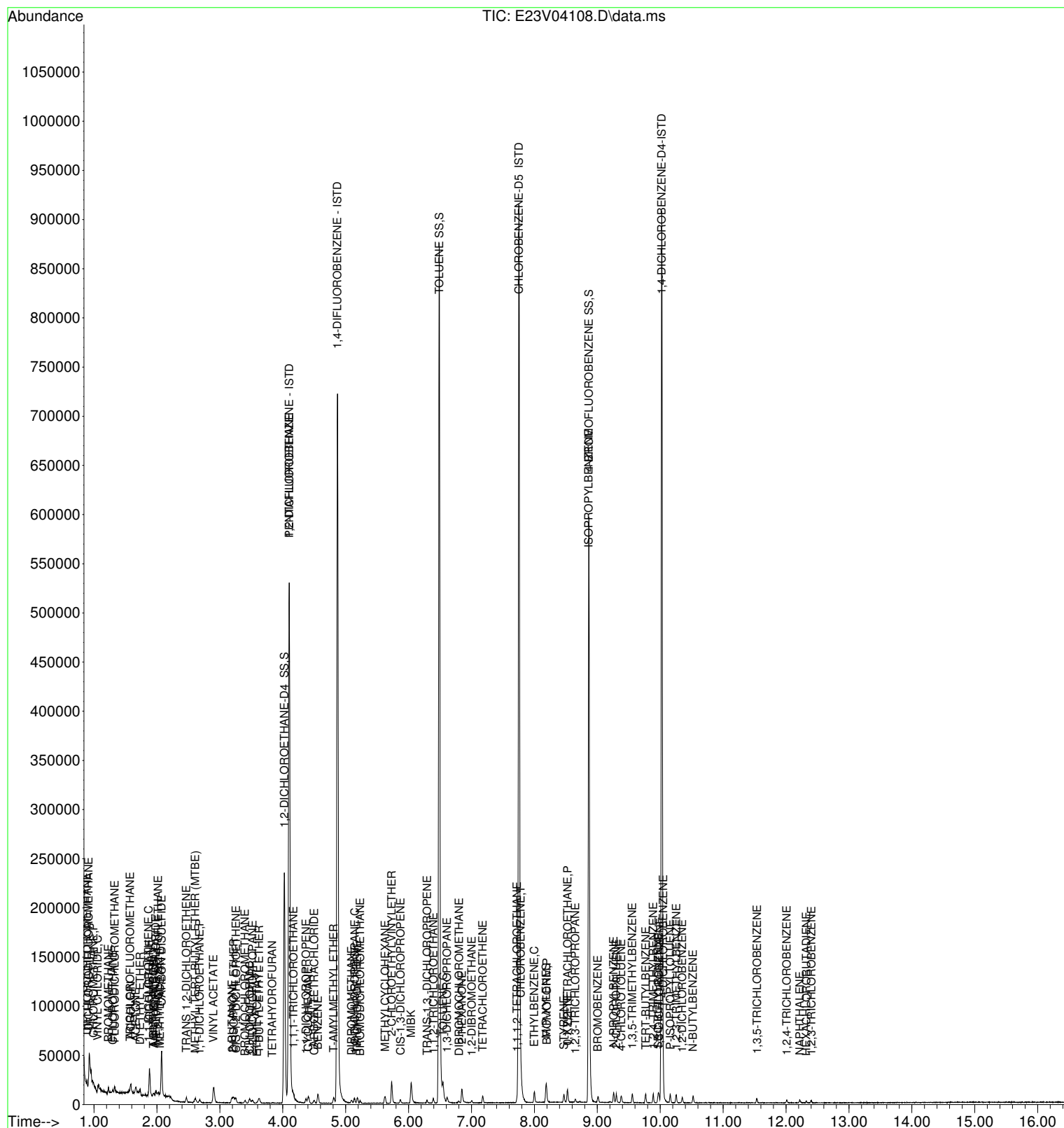
Quant Time: Feb 09 12:21:26 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58)	BROMODICHLOROMETHANE	5.232	83	1862	0.42	UG/L #	93
59)	2-CHLOROETHYLVINYLETHER	5.731	63	8664	5.57	UG/L	96
60)	MIBK	6.040	43	14731m	5.19	UG/L	
61)	CIS-1,3-DICHLOROPROPENE	5.870	75	1819	0.39	UG/L #	50
62)	TOLUENE	6.545	91	7200	0.50	UG/L	100
63)	TRANS-1,3,-DICHLOROPRO...	6.294	75	1476	0.39	UG/L #	48
65)	1,1,2-TRICHLOROETHANE	6.395	97	1289	0.43	UG/L #	92
66)	2-HEXANONE	6.846	43	9928m	5.03	UG/L	
67)	TETRACHLOROETHENE	7.178	166	1783	0.43	UG/L	98
68)	1,3-DICHLOROPROPANE	6.612	76	2417	0.49	UG/L	98
69)	DIBROMOCHLOROMETHANE	6.802	129	1348	0.41	UG/L	95
70)	1,2-DIBROMOETHANE	7.002	107	1331	0.42	UG/L #	97
73)	CHLOROBENZENE	7.780	112	4508	0.50	UG/L	96
74)	1,1,1,2-TETRACHLOROETHANE	7.722	131	1330	0.43	UG/L #	1
75)	ETHYLBENZENE	7.998	91	7387	0.50	UG/L	97
76)	M/P-XYLENES	8.188	91	11257	0.97	UG/L	99
77)	O-XYLENE	8.522	91	5432	0.48	UG/L	100
78)	STYRENE	8.466	104	3874	0.46	UG/L	99
79)	BROMOFORM	8.196	173	800	0.33	UG/L #	36
80)	ISOPROPYLBENZENE	8.860	105	7272	0.49	UG/L	93
82)	1,1,2,2-TETRACHLOROETHANE	8.528	83	1824	0.49	UG/L #	91
84)	BROMOBENZENE	9.007	77	2575	0.50	UG/L	87
85)	1,2,3-TRICHLOROPROPANE	8.651	75	1335	0.48	UG/L #	36
86)	N-PROPYLBENZENE	9.258	91	7575	0.47	UG/L	99
87)	2-CHLOROTOLUENE	9.300	91	4876m	0.50	UG/L	
88)	1,3,5-TRIMETHYLBENZENE	9.554	105	4795	0.44	UG/L	97
89)	4-CHLOROTOLUENE	9.378	91	4552	0.47	UG/L	95
91)	TERT-BUTYLBENZENE	9.769	119	4159	0.52	UG/L	100
92)	1,2,4-TRIMETHYLBENZENE	9.889	105	4669	0.53	UG/L	98
93)	SEC-BUTYLBENZENE	9.964	105	5769	0.51	UG/L	99
94)	1,3-DICHLOROBENZENE	9.981	146	2817	0.50	UG/L	99
95)	P-ISOPROPYLTOLUENE	10.159	119	4631	0.50	UG/L	97
96)	1,4-DICHLOROBENZENE	10.048	146	3128	0.54	UG/L #	63
97)	1,2,3-TRIMETHYLBENZENE	10.254	105	4741	0.53	UG/L	98
98)	N-BUTYLBENZENE	10.519	91	4074	0.49	UG/L	98
99)	1,2-DICHLOROBENZENE	10.349	146	2329	0.48	UG/L	93
101)	1,3,5-TRICHLOROBENZENE	11.537	180	1704	0.54	UG/L	93
102)	1,2,4-TRICHLOROBENZENE	12.008	180	1217	0.54	UG/L	90
103)	HEXACHLOROBUTADIENE	12.320	225	602m	0.45	UG/L	
104)	NAPHTHALENE	12.217	128	2636	0.60	UG/L #	68
105)	1,2,3-TRICHLOROBENZENE	12.401	180	1019	0.60	UG/L	93

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

206

Inst : GCMSVOA5

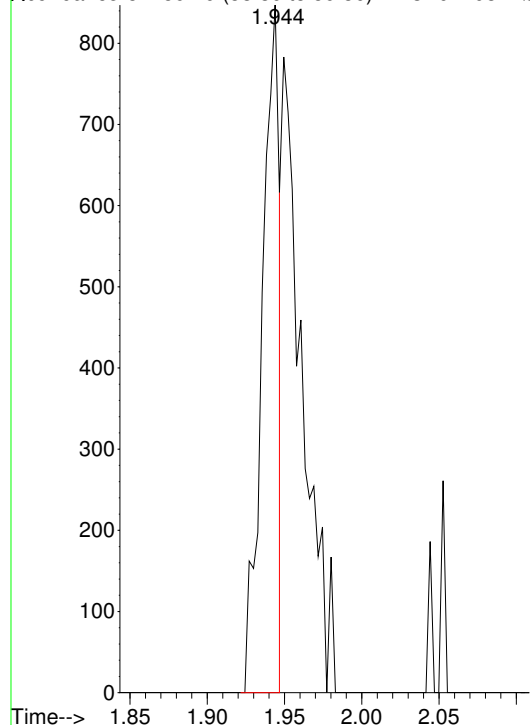


Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04108.D
Acq On : 9 Feb 2023 11:03 am
Operator :
Sample : 8260STD 0.5PPB 2301698
Misc : 1

Quant Time : Thu Feb 09 12:21:26 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration
T-BUTYL ALCOHOL

Abundance on 59.10 (58.80 to 59.80): E23V04108.D



Original Int. Results

RT : 1.94
Area : 647
Amount: 2.34413

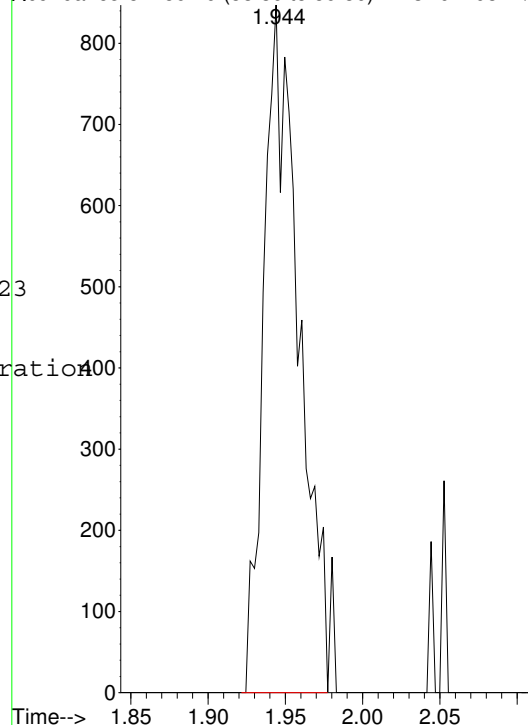
Manual Int. Results

Thu Feb 09 12:19:56 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.94
Area : 1337
Amount: 4.84405

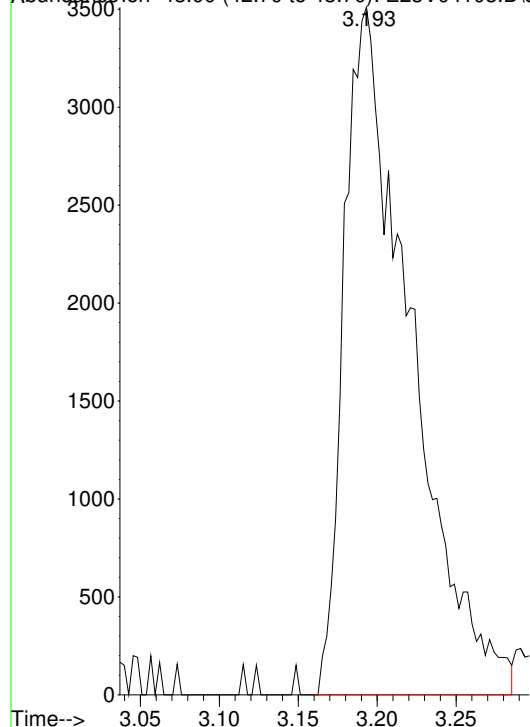
Manual Integration
T-BUTYL ALCOHOL

Abundance on 59.10 (58.80 to 59.80): E23V04108.D



Original Integration
2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V04108.D



Original Int. Results

RT : 3.19
Area : 10236
Amount: 8.07272

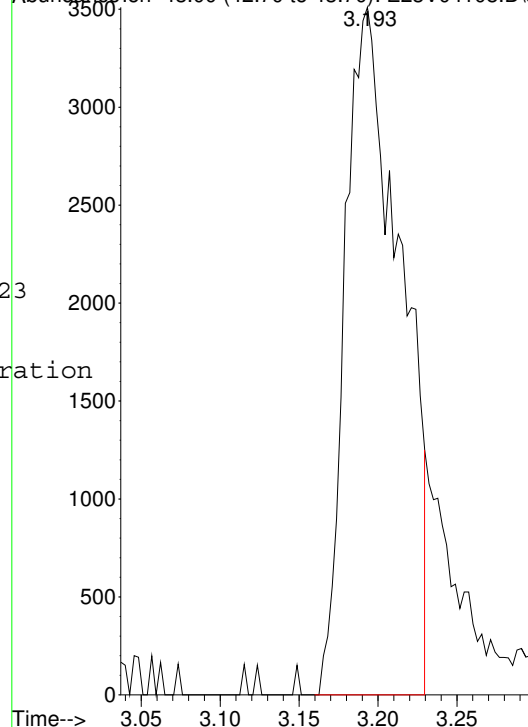
Manual Int. Results

Thu Feb 09 12:20:06 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.19
Area : 8616
Amount: 6.79509

Manual Integration
2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V04108.D



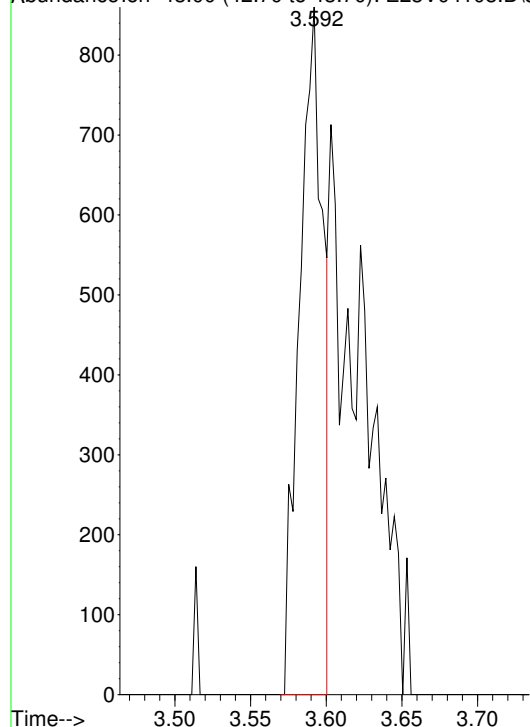
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04108.D
Acq On : 9 Feb 2023 11:03 am
Operator :
Sample : 8260STD 0.5PPB 2301698
Misc : 1

Quant Time : Thu Feb 09 12:21:26 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

ETHYL ACETATE

Abundance on 43.00 (42.70 to 43.70): E23V04108.D



Original Int. Results

RT : 3.59
Area : 930
Amount: 0.345455

Manual Int. Results

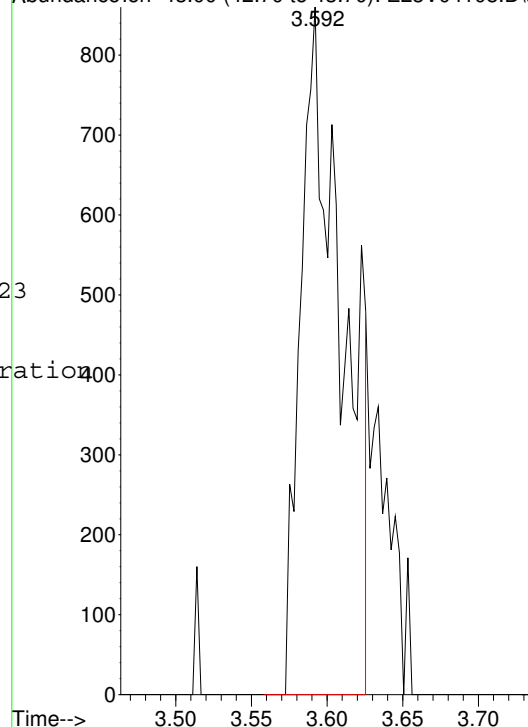
Thu Feb 09 12:20:20 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.59
Area : 1649
Amount: 0.612533

Manual Integration

ETHYL ACETATE

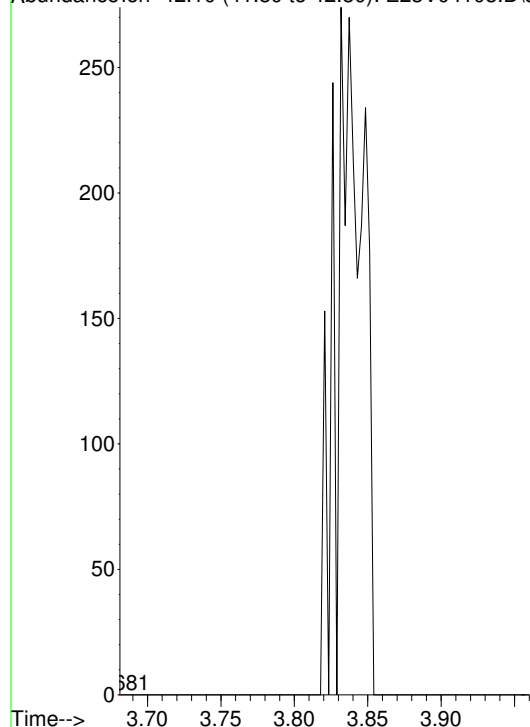
Abundance on 43.00 (42.70 to 43.70): E23V04108.D



Original Integration

TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04108.D



Original Int. Results

RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

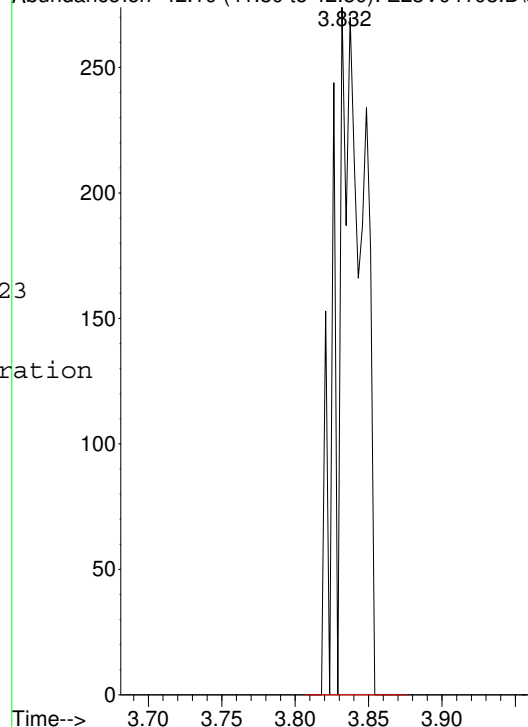
Thu Feb 09 12:20:24 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.83
Area : 352
Amount: 0.433047

Manual Integration

TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04108.D



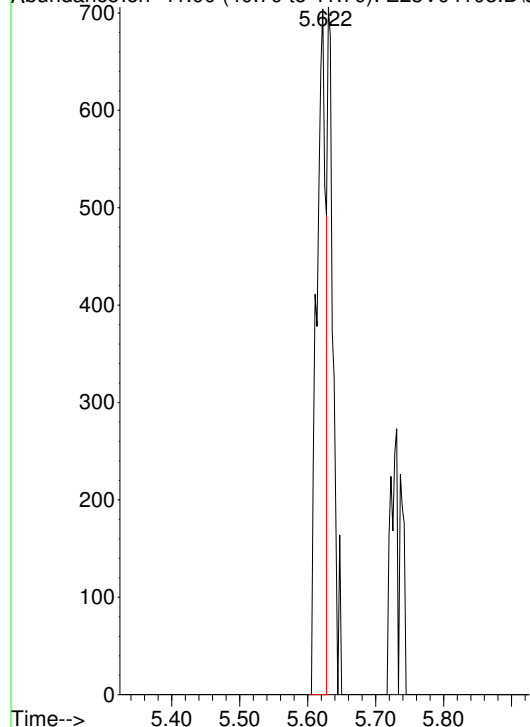
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04108.D
Acq On : 9 Feb 2023 11:03 am
Operator :
Sample : 8260STD 0.5PPB 2301698
Misc : 1

Quant Time : Thu Feb 09 12:21:26 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

METHYL METHACRYLATE

Abundance on 41.00 (40.70 to 41.70): E23V04108.D



Original Int. Results

RT : 5.62
Area : 654
Amount: 0

Manual Int. Results

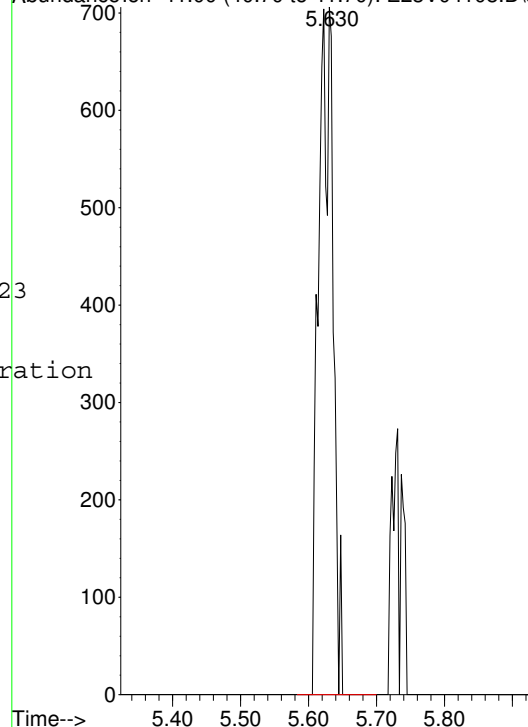
Thu Feb 09 12:20:36 2023

MIuser: EEH
Reason: Incoret Integration
RT : 5.63
Area : 1056
Amount: 0

Manual Integration

METHYL METHACRYLATE

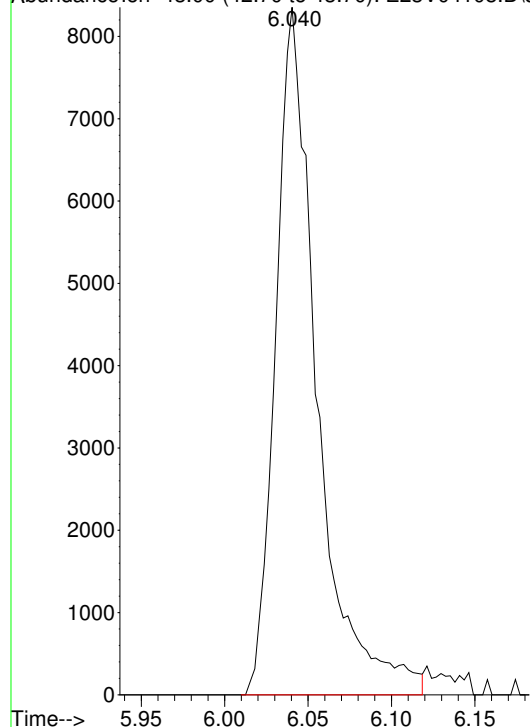
Abundance on 41.00 (40.70 to 41.70): E23V04108.D



Original Integration

MIBK

Abundance on 43.00 (42.70 to 43.70): E23V04108.D



Original Int. Results

RT : 6.04
Area : 14340
Amount: 5.04904

Manual Int. Results

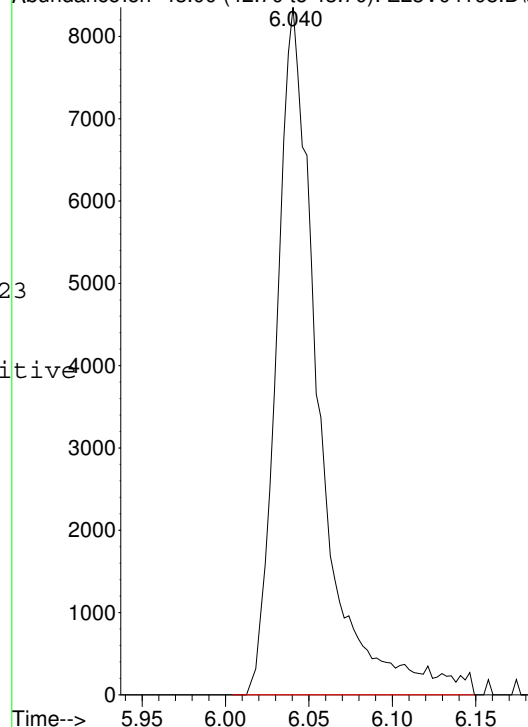
Thu Feb 09 12:20:48 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 6.04
Area : 14731
Amount: 5.18671

Manual Integration

MIBK

Abundance on 43.00 (42.70 to 43.70): E23V04108.D



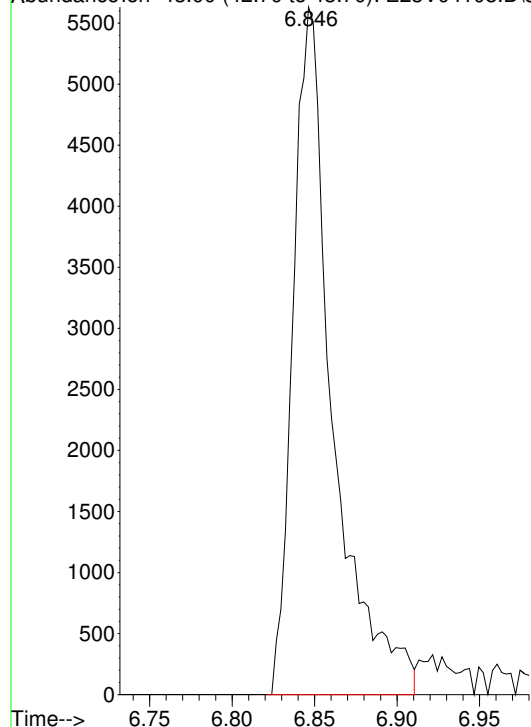
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04108.D
Acq On : 9 Feb 2023 11:03 am
Operator :
Sample : 8260STD 0.5PPB 2301698
Misc : 1

Quant Time : Thu Feb 09 12:21:26 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-HEXANONE

Abundance on 43.00 (42.70 to 43.70): E23V04108.D



Original Int. Results

RT : 6.85
Area : 9382
Amount: 4.74991

Manual Int. Results

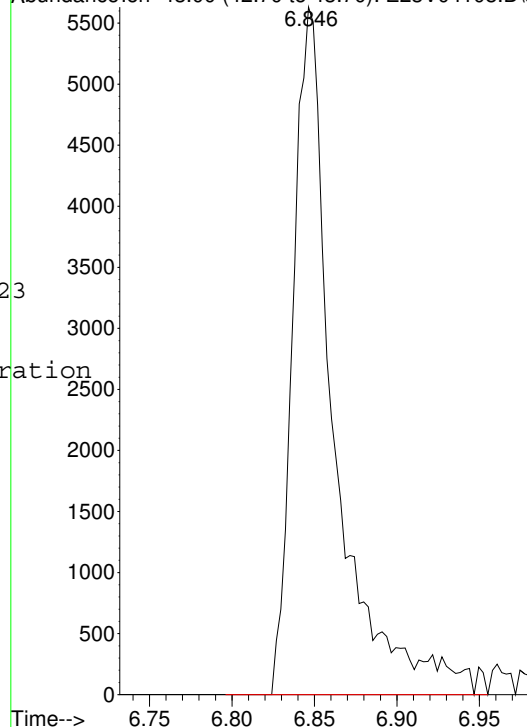
Thu Feb 09 12:20:55 2023

MIuser: EEH
Reason: Incoret Integration
RT : 6.85
Area : 9928
Amount: 5.02634

Manual Integration

2-HEXANONE

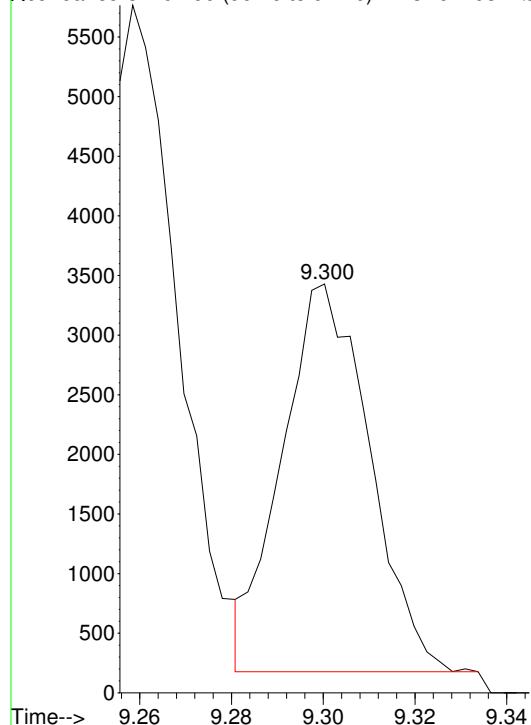
Abundance on 43.00 (42.70 to 43.70): E23V04108.D



Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04108.D



Original Int. Results

RT : 9.30
Area : 4313
Amount: 0.444728

Manual Int. Results

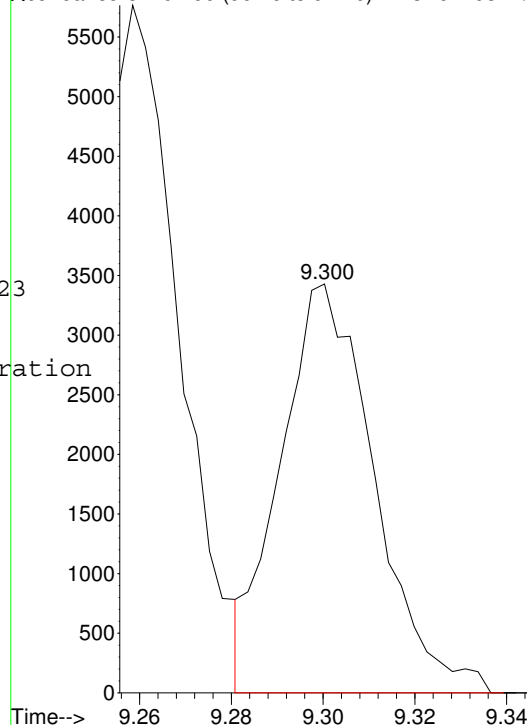
Thu Feb 09 12:21:12 2023

MIuser: EEH
Reason: Incoret Integration
RT : 9.30
Area : 4876
Amount: 0.502781

Manual Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04108.D

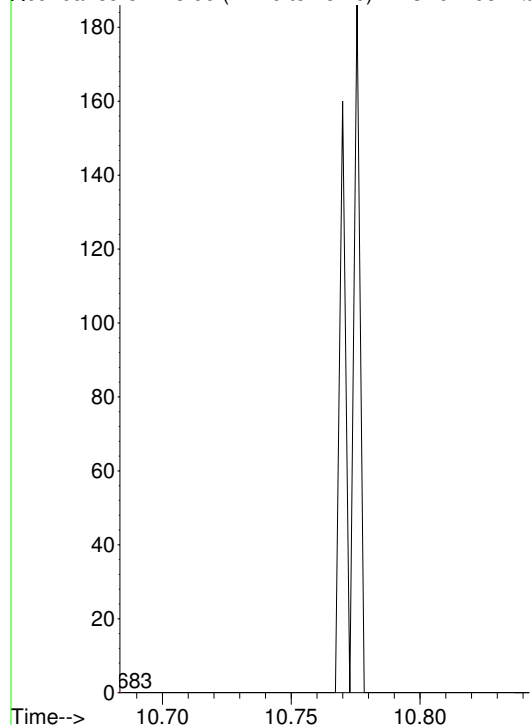


Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04108.D
Acq On : 9 Feb 2023 11:03 am
Operator :
Sample : 8260STD 0.5PPB 2301698
Misc : 1

Quant Time : Thu Feb 09 12:21:26 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration
1,2-DIBROMO-3-CHLOROPROPANE

Abundance on 75.00 (74.70 to 75.70): E23V04108.D



Original Int. Results

RT : 0.00
Area : 0
Amount: 0

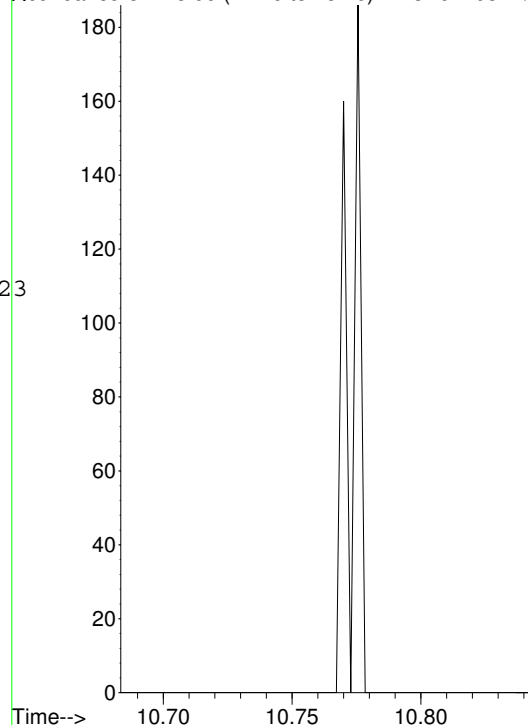
Manual Int. Results

Thu Feb 09 12:21:22 2023

MIuser: EEH
Reason: Split Peak
RT : 0.00
Area : 0
Amount: 0

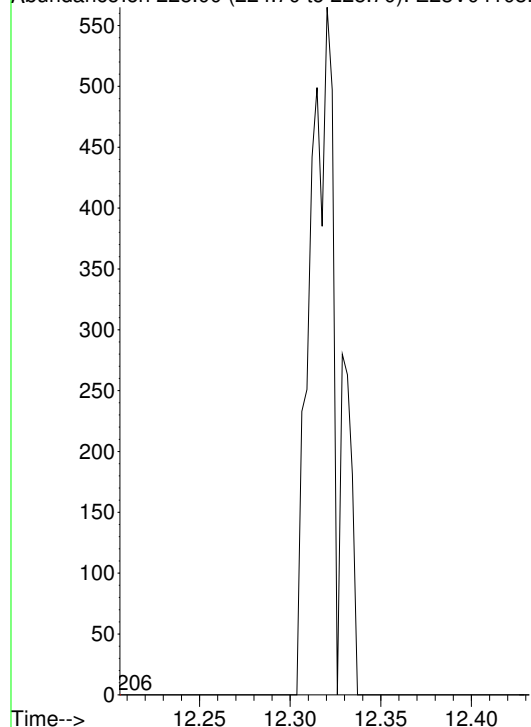
Manual Integration
1,2-DIBROMO-3-CHLOROPROPANE

Abundance on 75.00 (74.70 to 75.70): E23V04108.D



Original Integration
HEXACHLOROBUTADIENE

Abundance on 225.00 (224.70 to 225.70): E23V04108.D



Original Int. Results

RT : 0.00
Area : 0
Amount: 0

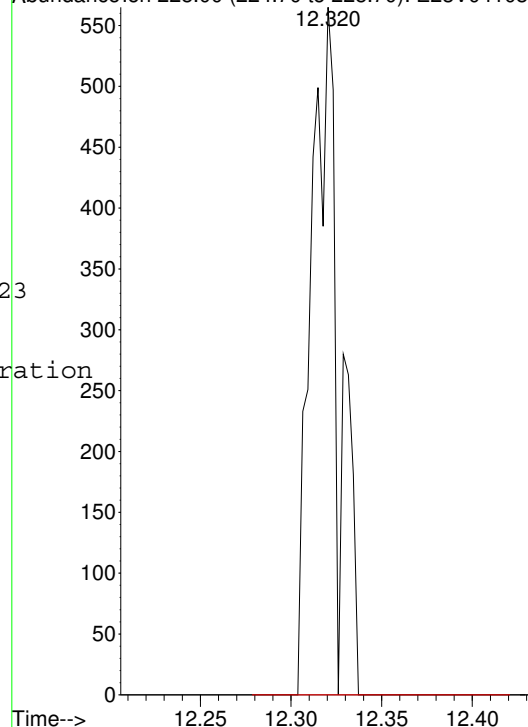
Manual Int. Results

Thu Feb 09 12:21:26 2023

MIuser: EEH
Reason: Incoret Integration
RT : 12.32
Area : 602
Amount: 0.454992

Manual Integration
HEXACHLOROBUTADIENE

Abundance on 225.00 (224.70 to 225.70): E23V04108.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04109.D
 Acq On : 9 Feb 2023 11:31 am
 Operator :
 Sample : 8260STD 1.0PPB 2301699
 Misc : 1
 ALS Vial : 9 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 09 12:22:53 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.102	168	352488	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.869	114	525640	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	251345	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.022	152	216322	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.024	65	148443	25.05	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 100.20%			
50) TOLUENE SS	6.486	98	509096	24.90	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 99.60%			
72) 4-BROMOFLUOROBENZENE SS	8.862	95	176051	23.16	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.64%			
Target Compounds						
					Qvalue	
3) DICHLORODIFLUOROMETHANE	0.915	85	3835	0.71	UG/L	95
4) DIFLUOROCHLOROMETHANE	0.887	51	4663	0.95	UG/L #	90
5) CHLOROMETHANE	0.990	50	4199	1.01	UG/L	94
6) VINYL CHLORIDE	1.063	62	3059	0.40	UG/L	98
7) BROMOMETHANE	1.230	94	3170	0.81	UG/L	95
8) CHLOROETHANE	1.297	64	2335	0.79	UG/L #	60
10) FLUORODICHLOROMETHANE	1.330	67	6198	0.70	UG/L	91
11) TRICHLOROFLUOROMETHANE	1.570	101	4617	0.60	UG/L	97
12) DI ETHYL ETHER	1.729	59	2379	0.81	UG/L #	83
13) ACROLEIN	1.587	56	7249	7.59	UG/L	87
14) ACETONE	1.662	43	11269	7.97	UG/L	94
15) 1,1-DICHLOROETHENE	1.874	61	4565	0.76	UG/L	94
16) 1,1,2-TRICL-1,2,2-TRIF...	2.016	101	3554	0.90	UG/L	93
17) IODOMETHANE	1.882	142	37552	6.53	UG/L	90
19) METHYL ACETATE	2.055	43	5369	1.21	UG/L #	85
20) T-BUTYL ALCOHOL	1.949	59	2987	10.67	UG/L #	61
21) ACRYLONITRILE	1.947	53	1566	1.19	UG/L	93
22) METHYLENE CHLORIDE	1.988	49	5030	1.20	UG/L #	83
23) CARBON DISULFIDE	2.075	76	98881	9.78	UG/L #	77
24) METHYL TERT-BUTYL ETHE...	2.607	73	8471	1.03	UG/L	98
25) TRANS 1,2-DICHLOROETHENE	2.468	61	4677	1.02	UG/L	93
26) 1,1-DICHLOROETHANE	2.680	63	5879	1.05	UG/L #	95
28) VINYL ACETATE	2.900	43	52209	9.66	UG/L	97
30) DI ISOPROYL ETHER	3.215	45	9870	1.13	UG/L #	86
31) 2-BUTANONE	3.188	43	16555m	12.88	UG/L	
33) T-BUTYL ETHYL ETHER	3.617	59	9098	1.06	UG/L	94
34) CIS-1,2-DICHLOROETHENE	3.249	61	4674	1.10	UG/L	91
35) 2,2-DICHLOROPROPANE	3.522	77	4011	0.92	UG/L	93
36) ETHYL ACETATE	3.592	43	2887	1.06	UG/L #	66
37) BROMOCHLOROMETHANE	3.399	49	2737	1.10	UG/L #	73
38) TETRAHYDROFURAN	3.837	42	844m	1.02	UG/L	
40) CHLOROFORM	3.472	83	6120	0.93	UG/L	96
42) 1,1,1-TRICHLOROETHANE	4.166	97	4565	0.90	UG/L #	45
43) CYCLOHEXANE	4.403	56	5847	1.09	UG/L	92
44) CARBON TETRACHLORIDE	4.501	117	3715	0.89	UG/L	96
45) 1,1-DICHLOROPROPENE	4.364	75	4411	0.98	UG/L	98
46) BENZENE	4.557	78	14604	1.11	UG/L	99
48) T-AMYL METHYL ETHER	4.811	73	8112	1.01	UG/L #	89
51) 1,2-DICHLOROETHANE	4.102	62	5207	1.03	UG/L #	1
53) TRICHLOROETHENE	5.190	95	3658	0.98	UG/L	90
54) METHYLCYCLOHEXANE	5.625	83	5372	0.96	UG/L	91
55) 1,2-DICHLOROPROPANE	5.142	63	3696	1.10	UG/L #	91
56) DIBROMOMETHANE	5.087	93	2058	0.93	UG/L	94

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04109.D
 Acq On : 9 Feb 2023 11:31 am
 Operator :
 Sample : 8260STD 1.0PPB 2301699
 Misc : 1
 ALS Vial : 9 Sample Multiplier: 1

Inst : GCMSVOA5

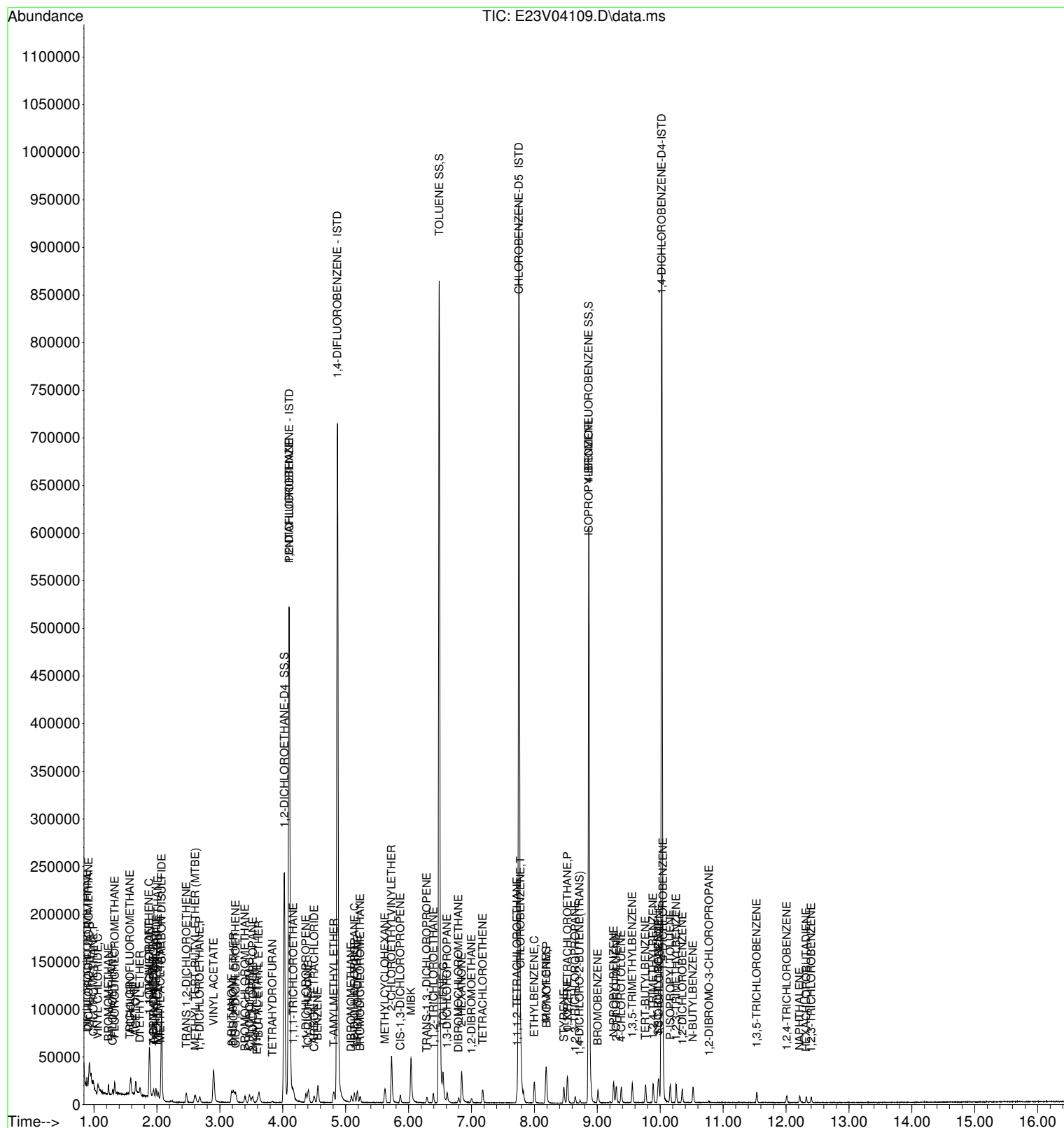
Quant Time: Feb 09 12:22:53 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) BROMODICHLOROMETHANE	5.232	83	3966	0.90	UG/L #	94
59) 2-CHLOROETHYLVINYLEETHER	5.728	63	19338	12.44	UG/L	97
60) MIBK	6.040	43	29790m	10.49	UG/L	
61) CIS-1,3-DICHLOROPROPENE	5.867	75	4312	0.92	UG/L	93
62) TOLUENE	6.545	91	14384	1.00	UG/L	98
63) TRANS-1,3,-DICHLOROPRO...	6.288	75	3258	0.87	UG/L	97
65) 1,1,2-TRICHLOROETHANE	6.394	97	2805	0.94	UG/L	95
66) 2-HEXANONE	6.843	43	21866m	11.08	UG/L	
67) TETRACHLOROETHENE	7.175	166	3706	0.90	UG/L	97
68) 1,3-DICHLOROPROPANE	6.609	76	5115	1.03	UG/L	99
69) DIBROMOCHLOROMETHANE	6.793	129	2706	0.82	UG/L	100
70) 1,2-DIBROMOETHANE	7.000	107	2898	0.91	UG/L #	98
73) CHLOROBENZENE	7.778	112	9072	1.00	UG/L	93
74) 1,1,1,2-TETRACHLOROETHANE	7.722	131	2715	0.87	UG/L #	1
75) ETHYLBENZENE	7.998	91	14871	1.01	UG/L	97
76) M/P-XYLENES	8.188	91	23072	1.97	UG/L	97
77) O-XYLENE	8.522	91	11514	1.01	UG/L	96
78) STYRENE	8.466	104	8014	0.95	UG/L	99
79) BROMOFORM	8.193	173	1665	0.69	UG/L #	90
80) ISOPROPYLBENZENE	8.860	105	14599	0.99	UG/L	97
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	4018	1.07	UG/L #	92
83) 1,4-DICHLORO-2-BUTENE(...	8.717	53	615	0.71	UG/L #	21
84) BROMOBENZENE	9.007	77	5435	1.05	UG/L	85
85) 1,2,3-TRICHLOROPROPANE	8.648	75	3056	1.09	UG/L	89
86) N-PROPYLBENZENE	9.258	91	15589	0.95	UG/L	98
87) 2-CHLOROTOLUENE	9.300	91	10206m	1.04	UG/L	
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	10155	0.93	UG/L	99
89) 4-CHLOROTOLUENE	9.381	91	9455	0.97	UG/L	98
91) TERT-BUTYLBENZENE	9.763	119	8629	1.06	UG/L	97
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	9784	1.08	UG/L	99
93) SEC-BUTYLBENZENE	9.967	105	12237	1.07	UG/L	99
94) 1,3-DICHLOROBENZENE	9.978	146	6253	1.10	UG/L	99
95) P-ISOPROPYLTOLUENE	10.159	119	10021	1.07	UG/L	98
96) 1,4-DICHLOROBENZENE	10.045	146	6246	1.07	UG/L	91
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	9906	1.08	UG/L	94
98) N-BUTYLBENZENE	10.519	91	8874	1.05	UG/L	96
99) 1,2-DICHLOROBENZENE	10.352	146	5626	1.14	UG/L	98
100) 1,2-DIBROMO-3-CHLOROPR...	10.775	75	369m	0.91	UG/L	
101) 1,3,5-TRICHLOROBENZENE	11.531	180	3484	1.08	UG/L	97
102) 1,2,4-TRICHLOROBENZENE	12.011	180	2600	1.14	UG/L	88
103) HEXACHLOROBUTADIENE	12.318	225	1422	1.06	UG/L #	45
104) NAPHTHALENE	12.214	128	5735	1.28	UG/L	96
105) 1,2,3-TRICHLOROBENZENE	12.398	180	1975	1.15	UG/L	96

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

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Quant Time: Feb 09 12:22:53 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Wed Jan 11 13:11:09 2023
Response via : Initial Calibration



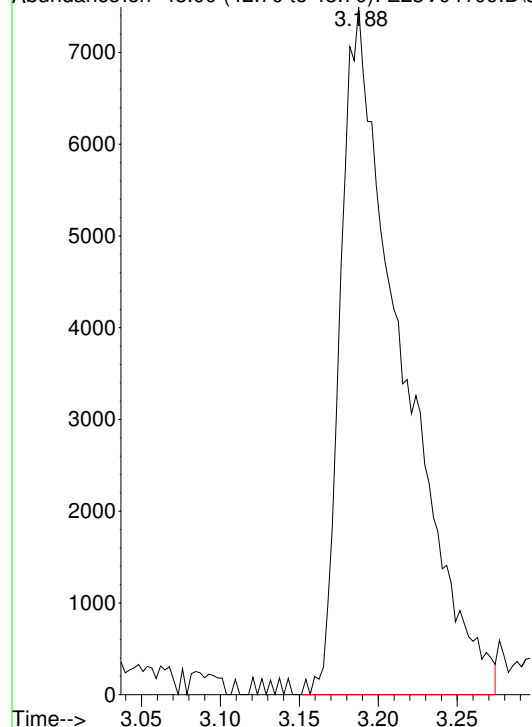
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04109.D
Acq On : 9 Feb 2023 11:31 am
Operator :
Sample : 8260STD 1.0PPB 2301699
Misc : 1

Quant Time : Thu Feb 09 12:22:53 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V04109.D\



Original Int. Results

RT : 3.19
Area : 20175
Amount: 15.6908

Manual Int. Results

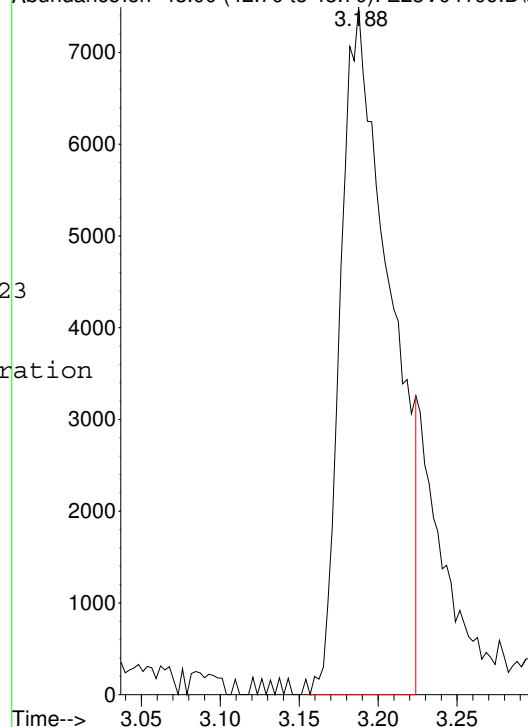
Thu Feb 09 12:22:01 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.19
Area : 16555
Amount: 12.8754

Manual Integration

2-BUTANONE

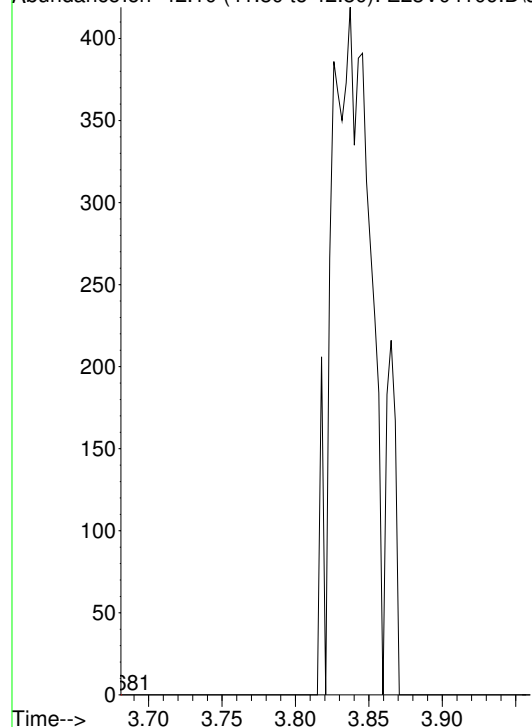
Abundance on 43.00 (42.70 to 43.70): E23V04109.D\



Original Integration

TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04109.D\



Original Int. Results

RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

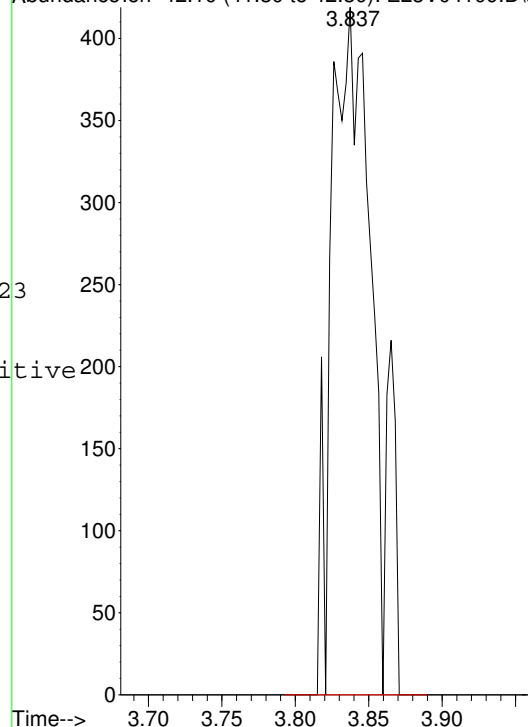
Thu Feb 09 12:22:09 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 3.84
Area : 844
Amount: 1.02395

Manual Integration

TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04109.D\



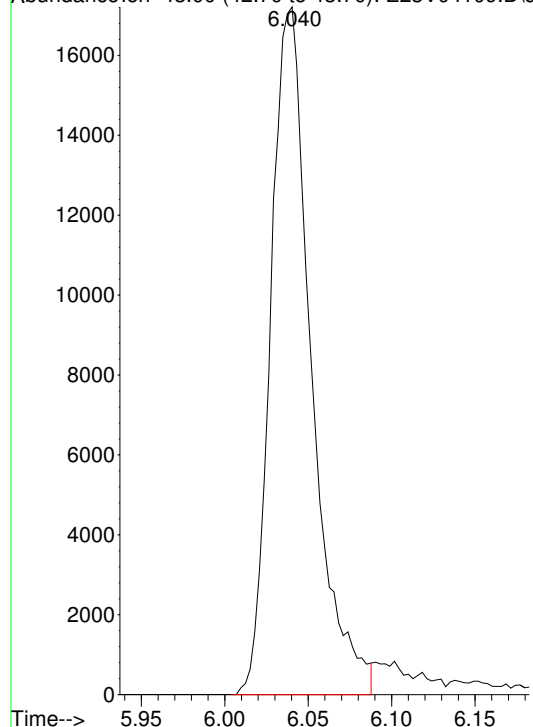
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04109.D
Acq On : 9 Feb 2023 11:31 am
Operator :
Sample : 8260STD 1.0PPB 2301699
Misc : 1

Quant Time : Thu Feb 09 12:22:53 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

MIBK

Abundance 43.00 (42.70 to 43.70): E23V04109.D



Original Int. Results

RT : 6.04
Area : 29146
Amount: 10.2679

Manual Int. Results

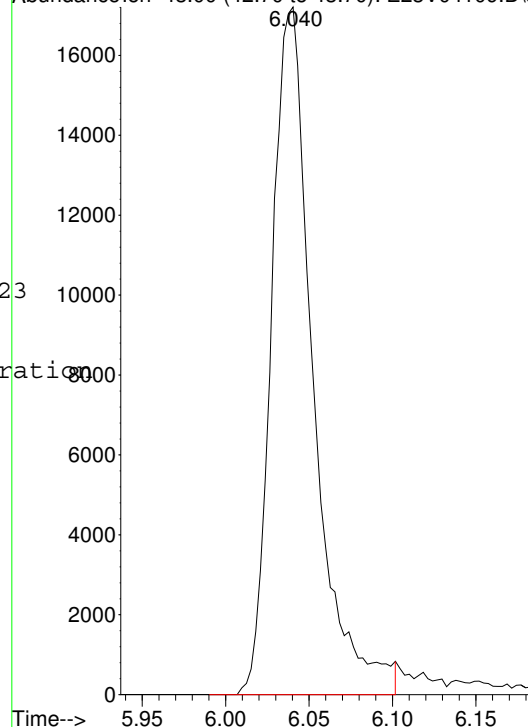
Thu Feb 09 12:22:32 2023

MIuser: EEH
Reason: Incoret Integration
RT : 6.04
Area : 29790
Amount: 10.4947

Manual Integration

MIBK

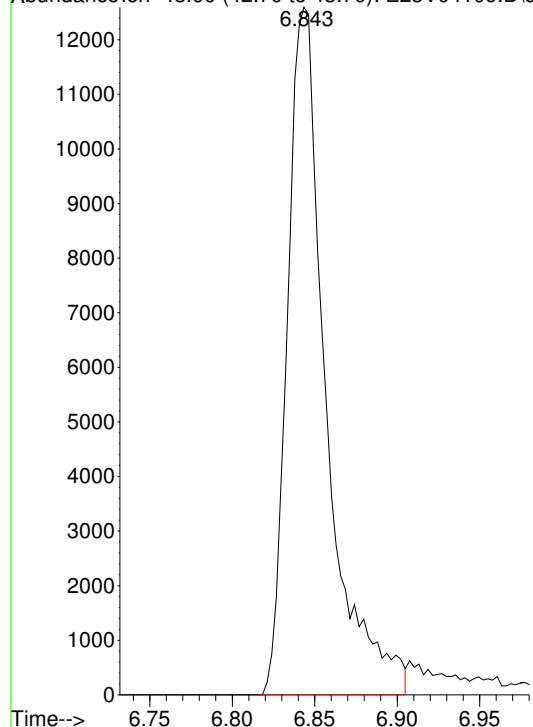
Abundance 43.00 (42.70 to 43.70): E23V04109.D



Original Integration

2-HEXANONE

Abundance 43.00 (42.70 to 43.70): E23V04109.D



Original Int. Results

RT : 6.84
Area : 20486
Amount: 10.3774

Manual Int. Results

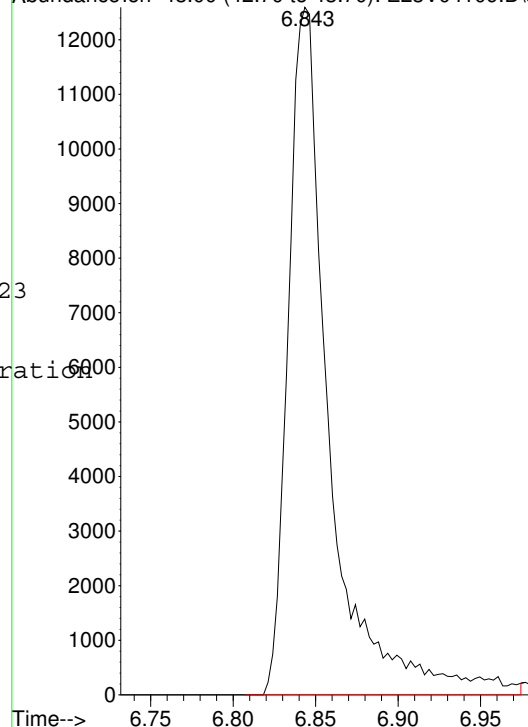
Thu Feb 09 12:22:24 2023

MIuser: EEH
Reason: Incoret Integration
RT : 6.84
Area : 21866
Amount: 11.0764

Manual Integration

2-HEXANONE

Abundance 43.00 (42.70 to 43.70): E23V04109.D



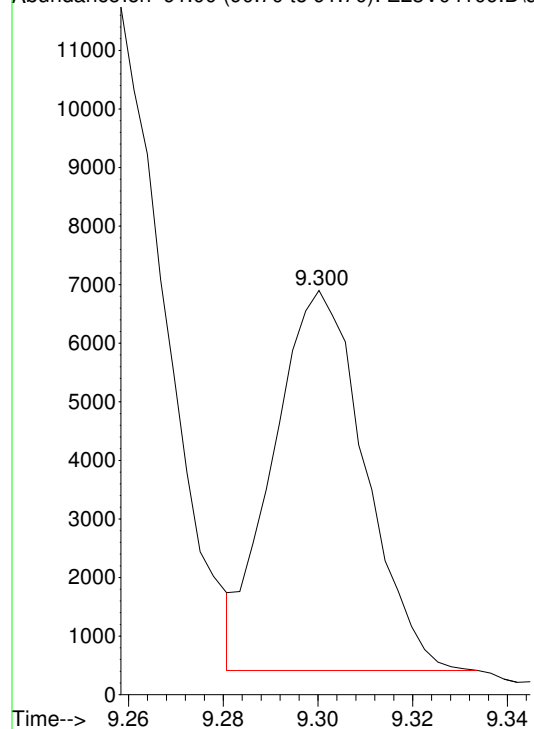
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04109.D
Acq On : 9 Feb 2023 11:31 am
Operator :
Sample : 8260STD 1.0PPB 2301699
Misc : 1

Quant Time : Thu Feb 09 12:22:53 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04109.D



Original Int. Results

RT : 9.30
Area : 8717
Amount: 0.892457

Manual Int. Results

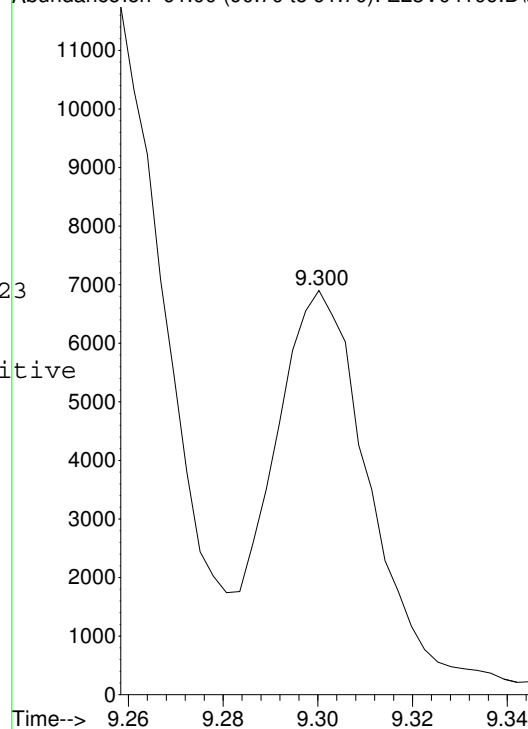
Thu Feb 09 12:22:45 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 9.30
Area : 10206
Amount: 1.0449

Manual Integration

2-CHLOROTOLUENE

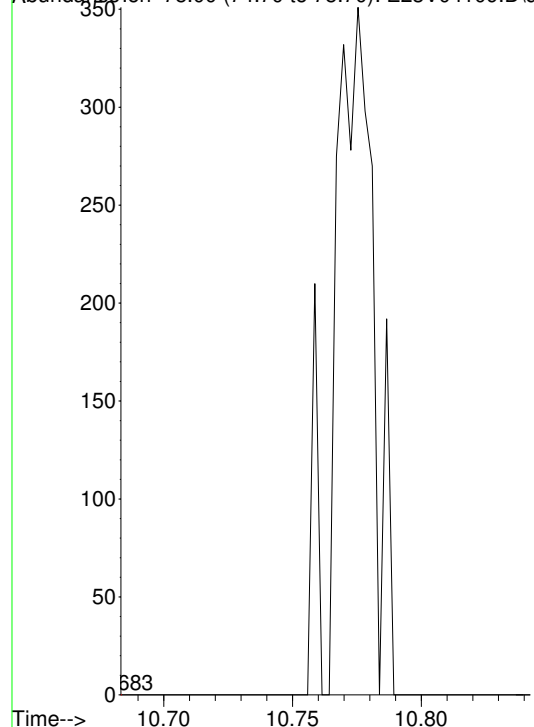
Abundance on 91.00 (90.70 to 91.70): E23V04109.D



Original Integration

1,2-DIBROMO-3-CHLOROPROPANE

Abundance on 75.00 (74.70 to 75.70): E23V04109.D



Original Int. Results

RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

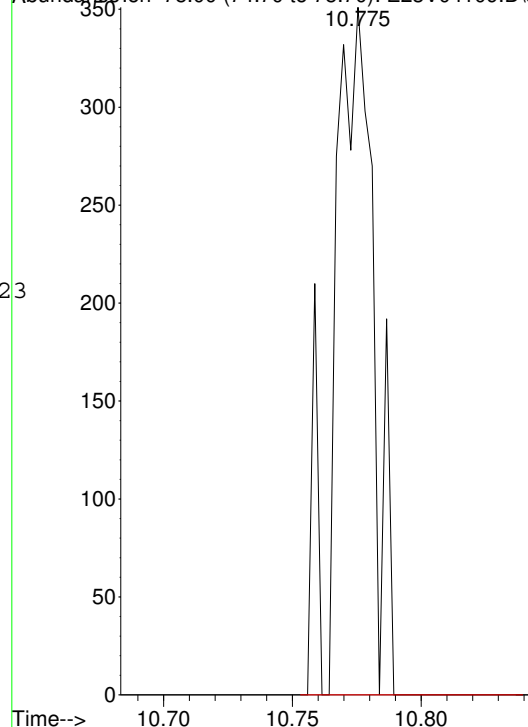
Thu Feb 09 12:22:53 2023

MIuser: EEH
Reason: Other
RT : 10.78
Area : 369
Amount: 0.905008

Manual Integration

1,2-DIBROMO-3-CHLOROPROPANE

Abundance on 75.00 (74.70 to 75.70): E23V04109.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04110.D
 Acq On : 9 Feb 2023 11:58 am
 Operator :
 Sample : 8260STD 2.0PPB 2301700
 Misc : 1
 ALS Vial : 10 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:50:58 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	353100	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.867	114	526464	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.750	82	250043	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	213294	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.022	65	147613	24.87	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	99.48%		
50) TOLUENE SS	6.484	98	503861	24.61	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	98.44%		
72) 4-BROMOFLUOROBENZENE SS	8.863	95	173703	22.97	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	91.88%		
Target Compounds						
					Qvalue	
3) DICHLORODIFLUOROMETHANE	0.915	85	8215	1.52	UG/L	98
4) DIFLUOROCHLOROMETHANE	0.887	51	8856	1.79	UG/L #	89
5) CHLOROMETHANE	0.990	50	7066	1.70	UG/L	95
6) VINYL CHLORIDE	1.060	62	6242	0.81	UG/L	97
7) BROMOMETHANE	1.227	94	5119	1.31	UG/L	100
8) CHLOROETHANE	1.294	64	4291	1.46	UG/L #	84
9) Ethanol	1.333	45	1156m	Below Cal		
10) FLUORODICHLOROMETHANE	1.328	67	12146	1.38	UG/L	96
11) TRICHLOROFLUOROMETHANE	1.570	101	9765	1.27	UG/L	98
12) DI ETHYL ETHER	1.729	59	4717	1.61	UG/L #	88
13) ACROLEIN	1.584	56	13947	14.57	UG/L	100
14) ACETONE	1.665	43	18374	12.97	UG/L	94
15) 1,1-DICHLOROETHENE	1.872	61	9527	1.59	UG/L	99
16) 1,1,2-TRICL-1,2,2-TRIF...	2.019	101	7483	1.89	UG/L	96
17) IODOMETHANE	1.880	142	77798	13.51	UG/L	90
19) METHYL ACETATE	2.050	43	8369	1.88	UG/L	97
20) T-BUTYL ALCOHOL	1.941	59	4832	17.23	UG/L #	91
21) ACRYLONITRILE	1.947	53	2786	2.11	UG/L	94
22) METHYLENE CHLORIDE	1.986	49	8700	2.08	UG/L	91
23) CARBON DISULFIDE	2.072	76	199090	19.67	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.602	73	16137	1.95	UG/L	95
25) TRANS 1,2-DICHLOROETHENE	2.465	61	9507	2.08	UG/L	93
26) 1,1-DICHLOROETHANE	2.680	63	11779	2.10	UG/L #	95
28) VINYL ACETATE	2.901	43	97490	18.00	UG/L	96
30) DI ISOPROYL ETHER	3.221	45	19586	2.25	UG/L #	88
31) 2-BUTANONE	3.179	43	28137m	21.85	UG/L	
33) T-BUTYL ETHYL ETHER	3.620	59	17435	2.03	UG/L	95
34) CIS-1,2-DICHLOROETHENE	3.252	61	9055	2.13	UG/L	93
35) 2,2-DICHLOROPROPANE	3.520	77	7351	1.69	UG/L	98
36) ETHYL ACETATE	3.587	43	5651	2.07	UG/L #	83
37) BROMOCHLOROMETHANE	3.397	49	5405	2.16	UG/L #	75
38) TETRAHYDROFURAN	3.821	42	1679	2.03	UG/L #	49
40) CHLOROFORM	3.469	83	11944	1.81	UG/L	99
42) 1,1,1-TRICHLOROETHANE	4.161	97	9164	1.81	UG/L #	47
43) CYCLOHEXANE	4.406	56	12464	2.32	UG/L	92
44) CARBON TETRACHLORIDE	4.493	117	7773m	1.86	UG/L	
45) 1,1-DICHLOROPROPENE	4.365	75	9494	2.11	UG/L #	85
46) BENZENE	4.560	78	27599	2.09	UG/L	99
48) T-AMYL METHYL ETHER	4.811	73	15796	1.97	UG/L #	87
51) 1,2-DICHLOROETHANE	4.100	62	9234	1.83	UG/L #	1
53) TRICHLOROETHENE	5.182	95	7134	1.91	UG/L	94
54) METHYLCYCLOHEXANE	5.619	83	11406	2.04	UG/L	94
55) 1,2-DICHLOROPROPANE	5.140	63	6943	2.07	UG/L	94

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04110.D
 Acq On : 9 Feb 2023 11:58 am
 Operator :
 Sample : 8260STD 2.0PPB 2301700
 Misc : 1
 ALS Vial : 10 Sample Multiplier: 1

Inst : GCMSVOA5

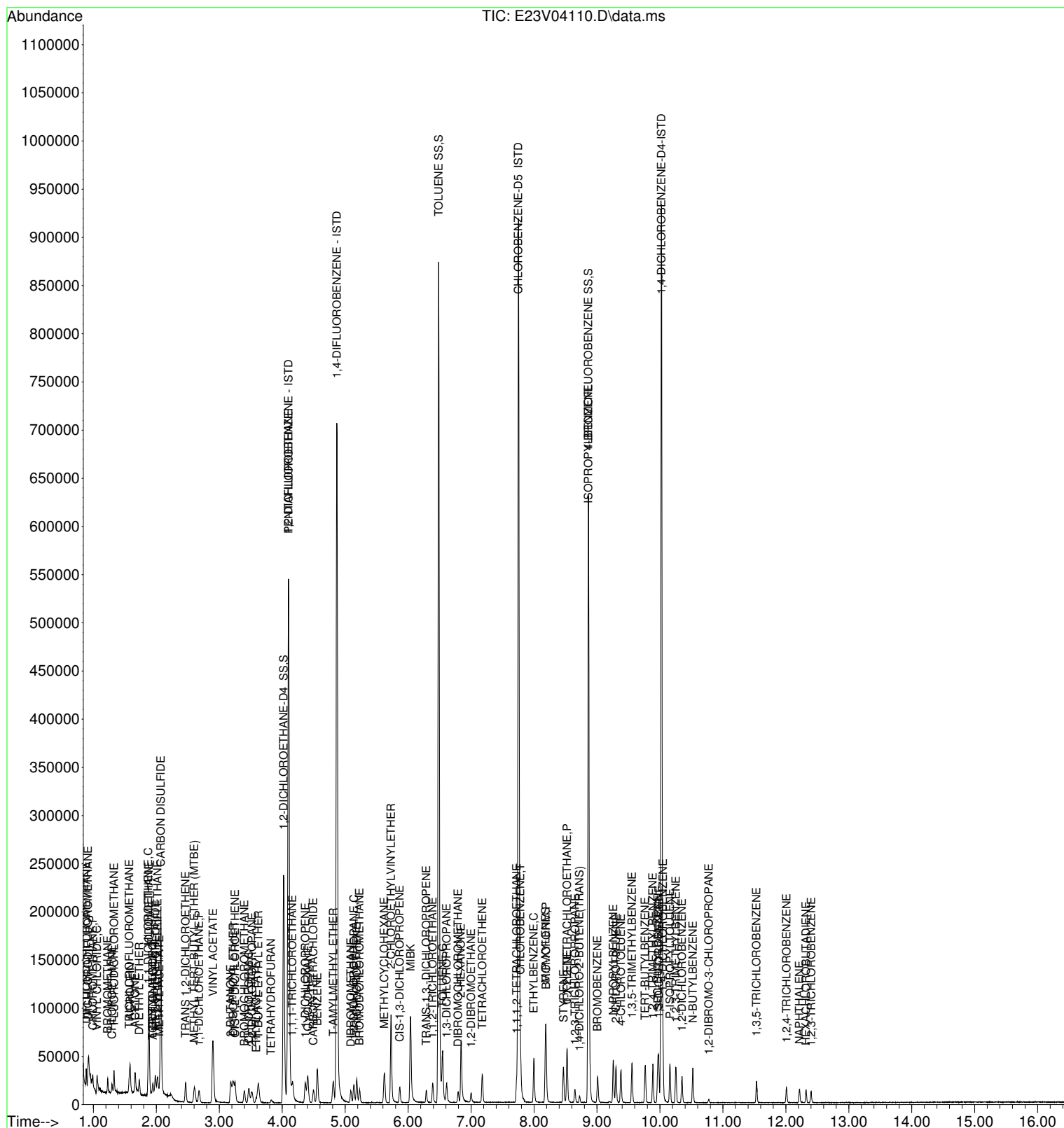
Quant Time: Feb 10 07:50:58 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) DIBROMOMETHANE	5.092	93	4207	1.90	UG/L	91
58) BROMODICHLOROMETHANE	5.226	83	7987	1.82	UG/L	95
59) 2-CHLOROETHYLVINYLEETHER	5.728	63	36060	23.17	UG/L	99
60) MIBK	6.038	43	58458	20.56	UG/L	95
61) CIS-1,3-DICHLOROPROPENE	5.865	75	8876	1.89	UG/L	92
62) TOLUENE	6.545	91	28282	1.97	UG/L	99
63) TRANS-1,3,-DICHLOROPRO...	6.289	75	6408	1.71	UG/L	91
65) 1,1,2-TRICHLOROETHANE	6.389	97	5835	1.96	UG/L	98
66) 2-HEXANONE	6.838	43	40129m	20.30	UG/L	
67) TETRACHLOROETHENE	7.176	166	7748	1.89	UG/L	98
68) 1,3-DICHLOROPROPANE	6.612	76	9985	2.01	UG/L	98
69) DIBROMOCHLOROMETHANE	6.793	129	5548	1.67	UG/L	97
70) 1,2-DIBROMOETHANE	7.000	107	5972	1.87	UG/L #	98
73) CHLOROBENZENE	7.781	112	18063	2.01	UG/L	94
74) 1,1,1,2-TETRACHLOROETHANE	7.722	131	5588	1.81	UG/L #	1
75) ETHYLBENZENE	7.995	91	29619	2.02	UG/L	98
76) M/P-XYLENES	8.182	91	44823	3.84	UG/L	100
77) O-XYLENE	8.525	91	21855	1.92	UG/L	99
78) STYRENE	8.467	104	16425	1.96	UG/L	99
79) BROMOFORM	8.191	173	3524	1.46	UG/L #	93
80) ISOPROPYLBENZENE	8.860	105	27878	1.89	UG/L	98
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	7591	2.03	UG/L #	97
83) 1,4-DICHLORO-2-BUTENE(...	8.720	53	1354	1.57	UG/L #	21
84) BROMOBENZENE	9.008	77	10532	2.04	UG/L	88
85) 1,2,3-TRICHLOROPROPANE	8.651	75	5619	2.01	UG/L	93
86) N-PROPYLBENZENE	9.256	91	30611	1.88	UG/L	97
87) 2-CHLOROTOLUENE	9.298	91	19483m	2.01	UG/L	
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	20788	1.92	UG/L	97
89) 4-CHLOROTOLUENE	9.379	91	19070	1.97	UG/L	96
91) TERT-BUTYLBENZENE	9.763	119	17071	2.13	UG/L	97
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	19088	2.15	UG/L	97
93) SEC-BUTYLBENZENE	9.967	105	24418	2.17	UG/L	98
94) 1,3-DICHLOROBENZENE	9.981	146	11674	2.09	UG/L	100
95) P-ISOPROPYLTOLUENE	10.157	119	19850	2.14	UG/L	100
96) 1,4-DICHLOROBENZENE	10.048	146	12607	2.19	UG/L	96
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	19743	2.19	UG/L	96
98) N-BUTYLBENZENE	10.522	91	17504	2.10	UG/L	100
99) 1,2-DICHLOROBENZENE	10.349	146	10544	2.17	UG/L	99
100) 1,2-DIBROMO-3-CHLOROPR...	10.773	75	744	1.85	UG/L	93
101) 1,3,5-TRICHLOROBENZENE	11.531	180	6804	2.14	UG/L	100
102) 1,2,4-TRICHLOROBENZENE	12.008	180	4968	2.22	UG/L	95
103) HEXACHLOROBUTADIENE	12.318	225	2668	2.01	UG/L	96
104) NAPHTHALENE	12.215	128	10285	2.33	UG/L	96
105) 1,2,3-TRICHLOROBENZENE	12.401	180	3967	2.35	UG/L	95

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

220

Quant Time: Feb 10 07:50:58 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Wed Jan 11 13:11:09 2023
Response via : Initial Calibration



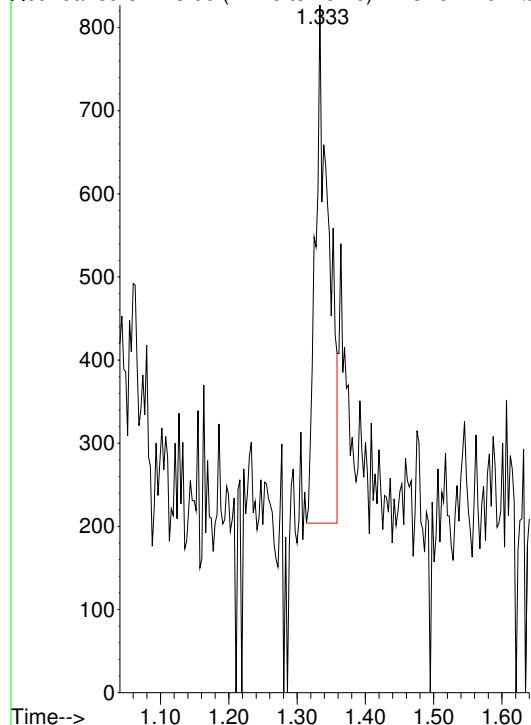
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04110.D
Acq On : 9 Feb 2023 11:58 am
Operator :
Sample : 8260STD 2.0PPB 2301700
Misc : 1

Quant Time : Fri Feb 10 07:50:58 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V04110.D



Original Int. Results

RT : 1.33
Area : 844
Amount: -12.9241

Manual Int. Results

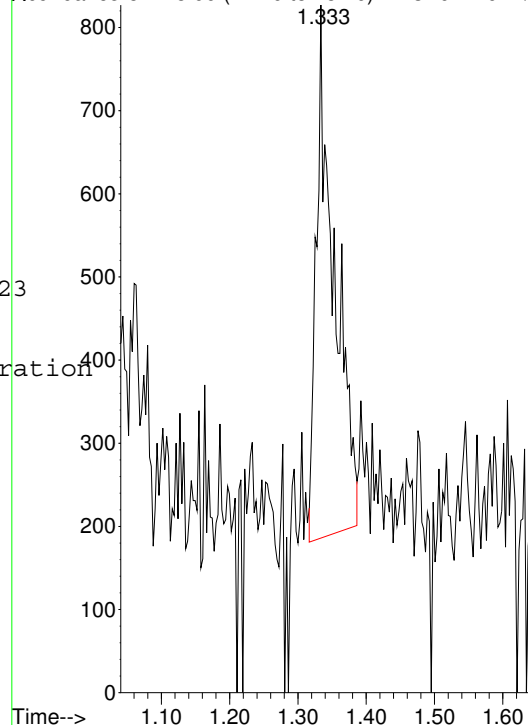
Fri Feb 10 07:50:58 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.33
Area : 1156
Amount: -7.07921

Manual Integration

Ethanol

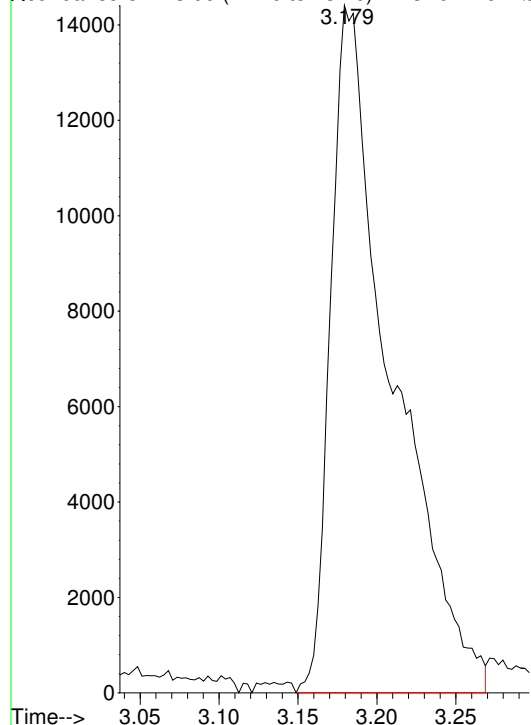
Abundance on 45.00 (44.70 to 45.70): E23V04110.D



Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V04110.D



Original Int. Results

RT : 3.18
Area : 38595
Amount: 29.9647

Manual Int. Results

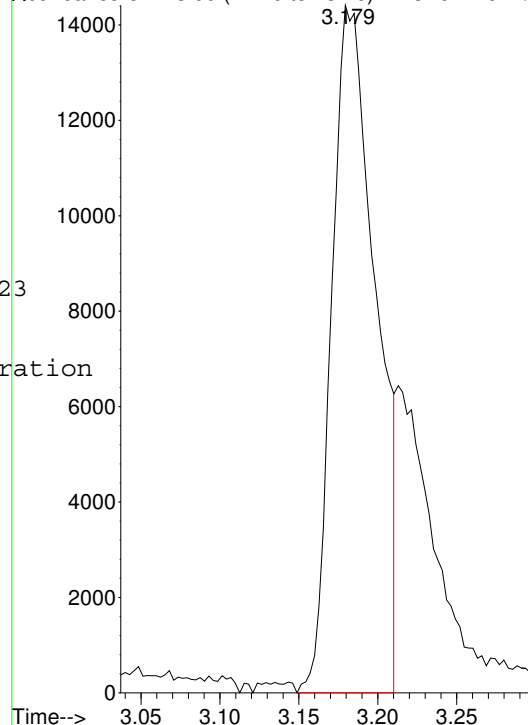
Thu Feb 09 12:23:52 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.18
Area : 28137
Amount: 21.8453

Manual Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V04110.D

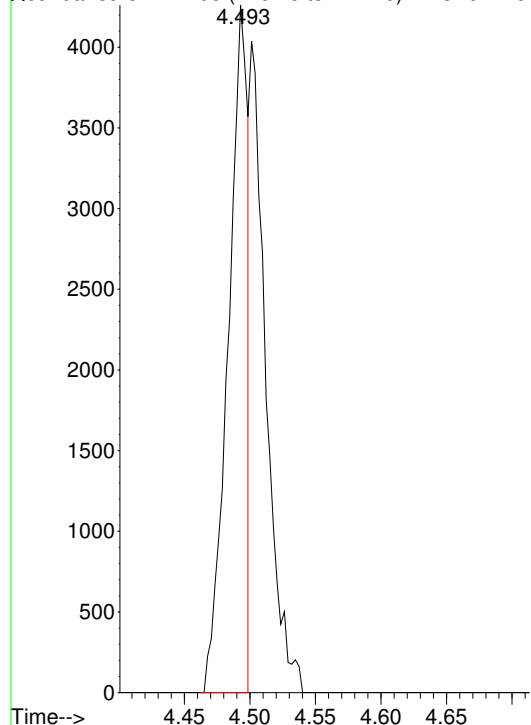


Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04110.D
Acq On : 9 Feb 2023 11:58 am
Operator :
Sample : 8260STD 2.0PPB 2301700
Misc : 1

Quant Time : Fri Feb 10 07:50:58 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration
CARBON TETRACHLORIDE

Abundance on 117.00 (116.70 to 117.70): E23V04110.D



Original Int. Results

RT : 4.49
Area : 4377
Amount: 1.04479

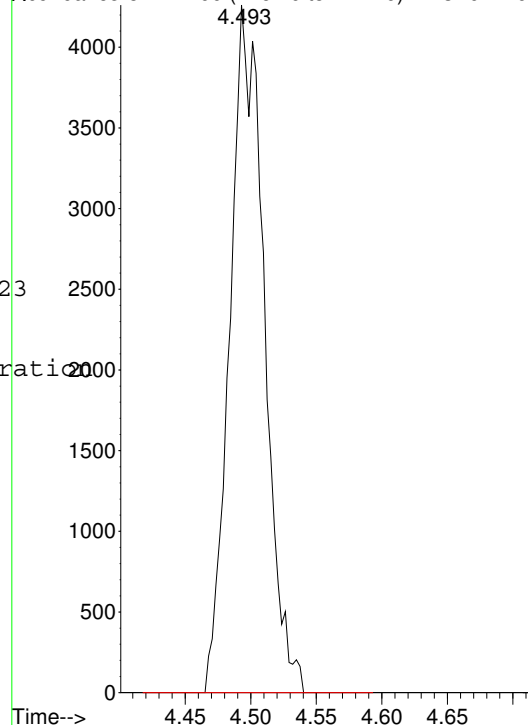
Manual Int. Results

Thu Feb 09 12:24:01 2023

MIuser: EEH
Reason: Incoret Integration
RT : 4.49
Area : 7773
Amount: 1.85542

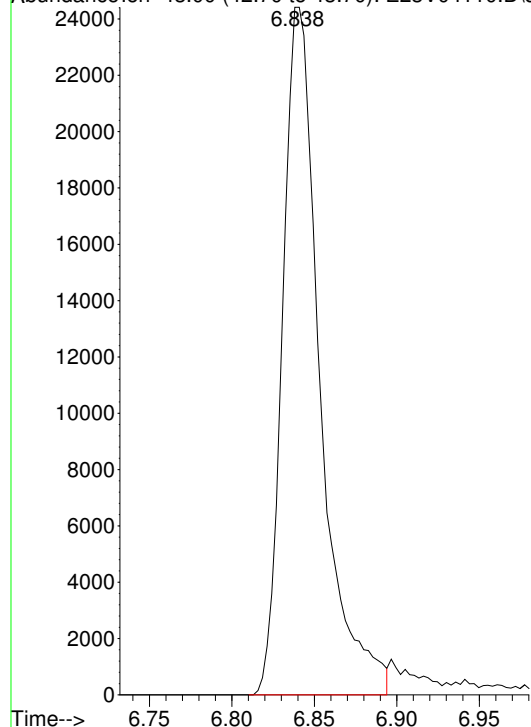
Manual Integration
CARBON TETRACHLORIDE

Abundance on 117.00 (116.70 to 117.70): E23V04110.D



Original Integration
2-HEXANONE

Abundance on 43.00 (42.70 to 43.70): E23V04110.D



Original Int. Results

RT : 6.84
Area : 38459
Amount: 19.4513

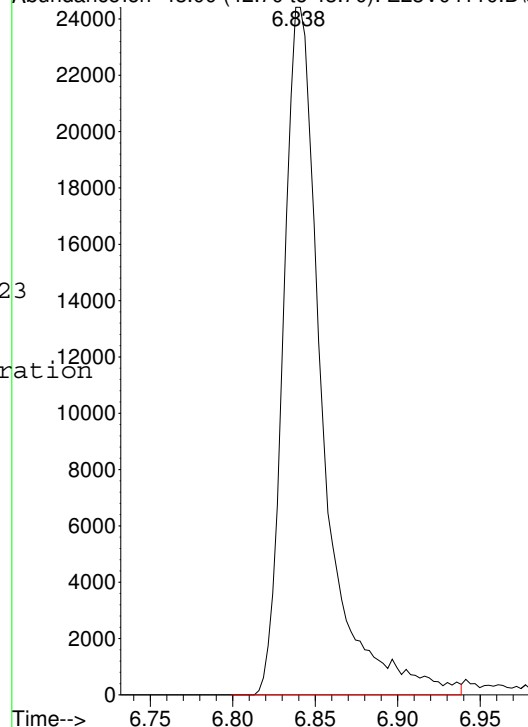
Manual Int. Results

Thu Feb 09 12:24:15 2023

MIuser: EEH
Reason: Incoret Integration
RT : 6.84
Area : 40129
Amount: 20.2959

Manual Integration
2-HEXANONE

Abundance on 43.00 (42.70 to 43.70): E23V04110.D



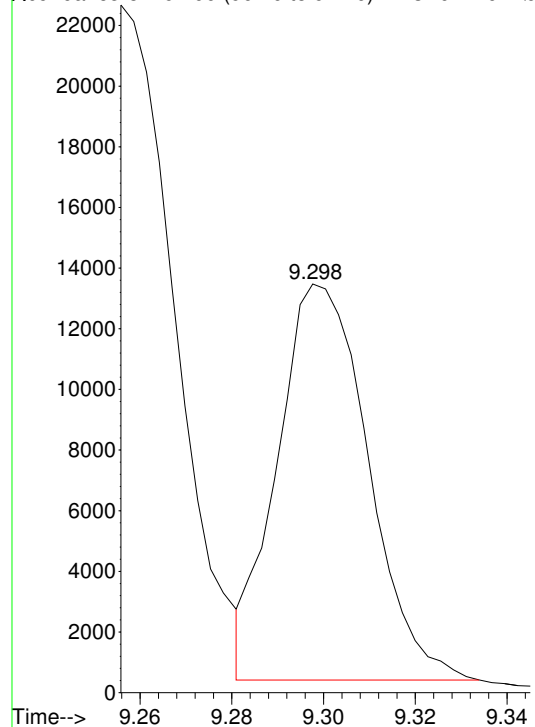
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04110.D
Acq On : 9 Feb 2023 11:58 am
Operator :
Sample : 8260STD 2.0PPB 2301700
Misc : 1

Quant Time : Fri Feb 10 07:50:58 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04110.D.d



Original Int. Results

RT : 9.30
Area : 17969
Amount: 1.84927

Manual Int. Results

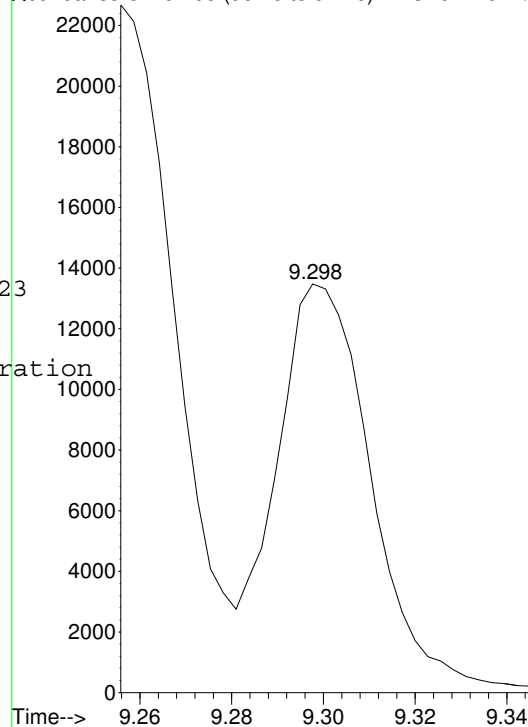
Thu Feb 09 12:24:29 2023

MIuser: EEH
Reason: Incoret Integration
RT : 9.30
Area : 19483
Amount: 2.00508

Manual Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04110.D.d



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04111.D
 Acq On : 9 Feb 2023 12:26 pm
 Operator :
 Sample : 8260STD 5.0PPB 2301701
 Misc : 1
 ALS Vial : 11 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:38:22 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Thu Jan 12 05:32:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	346298	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.867	114	517583	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.750	82	245302	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	218904	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.022	65	145721	25.03	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.12%
50) TOLUENE SS	6.484	98	507026	25.19	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.76%
72) 4-BROMOFLUOROBENZENE SS	8.865	95	176899	23.84	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.36%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.915	85	19433	3.66	UG/L	100
4) DIFLUOROCHLOROMETHANE	0.887	51	19990	4.13	UG/L	94
5) CHLOROMETHANE	0.990	50	15721	3.87	UG/L	95
6) VINYL CHLORIDE	1.060	62	12651	1.67	UG/L	100
7) BROMOMETHANE	1.227	94	9755	2.54	UG/L	96
8) CHLOROETHANE	1.297	64	10331	3.57	UG/L	98
9) Ethanol	1.339	45	2688m	22.61	UG/L	
10) FLUORODICHLOROMETHANE	1.328	67	28845	3.33	UG/L	98
11) TRICHLOROFLUOROMETHANE	1.570	101	23326	3.09	UG/L	100
12) DI ETHYL ETHER	1.729	59	10967	3.82	UG/L	94
13) ACROLEIN	1.584	56	32960	35.11	UG/L	95
14) ACETONE	1.665	43	44847	32.27	UG/L	94
15) 1,1-DICHLOROETHENE	1.871	61	21544	3.67	UG/L	98
16) 1,1,2-TRICL-1,2,2-TRIF...	2.017	101	17022	4.38	UG/L	95
17) IODOMETHANE	1.880	142	194648	34.45	UG/L	88
19) METHYL ACETATE	2.050	43	19931	4.56	UG/L	99
20) T-BUTYL ALCOHOL	1.947	59	13028	47.38	UG/L #	77
21) ACRYLONITRILE	1.947	53	6491	5.01	UG/L	97
22) METHYLENE CHLORIDE	1.983	49	19463	4.73	UG/L	91
23) CARBON DISULFIDE	2.072	76	477237	48.07	UG/L #	75
24) METHYL TERT-BUTYL ETHE...	2.605	73	39245	4.84	UG/L	95
25) TRANS 1,2-DICHLOROETHENE	2.465	61	22285	4.96	UG/L	93
26) 1,1-DICHLOROETHANE	2.680	63	27602	5.02	UG/L	98
28) VINYL ACETATE	2.895	43	263920	49.69	UG/L	96
30) DI ISOPROYL ETHER	3.216	45	46197	5.40	UG/L	90
31) 2-BUTANONE	3.177	43	69613m	55.11	UG/L	
33) T-BUTYL ETHYL ETHER	3.620	59	42515	5.05	UG/L	96
34) CIS-1,2-DICHLOROETHENE	3.252	61	21597	5.18	UG/L	92
35) 2,2-DICHLOROPROPANE	3.520	77	18050	4.22	UG/L	100
36) ETHYL ACETATE	3.584	43	14172m	5.28	UG/L	
37) BROMOCHLOROMETHANE	3.397	49	12265	5.01	UG/L #	78
38) TETRAHYDROFURAN	3.818	42	4710m	5.82	UG/L	
40) CHLOROFORM	3.469	83	27882	4.31	UG/L	99
42) 1,1,1-TRICHLOROETHANE	4.164	97	21640	4.35	UG/L	92
43) CYCLOHEXANE	4.401	56	28685	5.45	UG/L	93
44) CARBON TETRACHLORIDE	4.493	117	19028	4.63	UG/L	100
45) 1,1-DICHLOROPROPENE	4.365	75	21759	4.94	UG/L	95
46) BENZENE	4.557	78	64297	4.95	UG/L	99
48) T-AMYL METHYL ETHER	4.805	73	37757	4.80	UG/L #	89
51) 1,2-DICHLOROETHANE	4.097	62	19428	3.92	UG/L #	38
53) TRICHLOROETHENE	5.182	95	17451	4.76	UG/L	89
54) METHYLCYCLOHEXANE	5.619	83	26120	4.76	UG/L	95
55) 1,2-DICHLOROPROPANE	5.137	63	16354	4.96	UG/L	94

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04111.D
 Acq On : 9 Feb 2023 12:26 pm
 Operator :
 Sample : 8260STD 5.0PPB 2301701
 Misc : 1
 ALS Vial : 11 Sample Multiplier: 1

Inst : GCMSVOA5

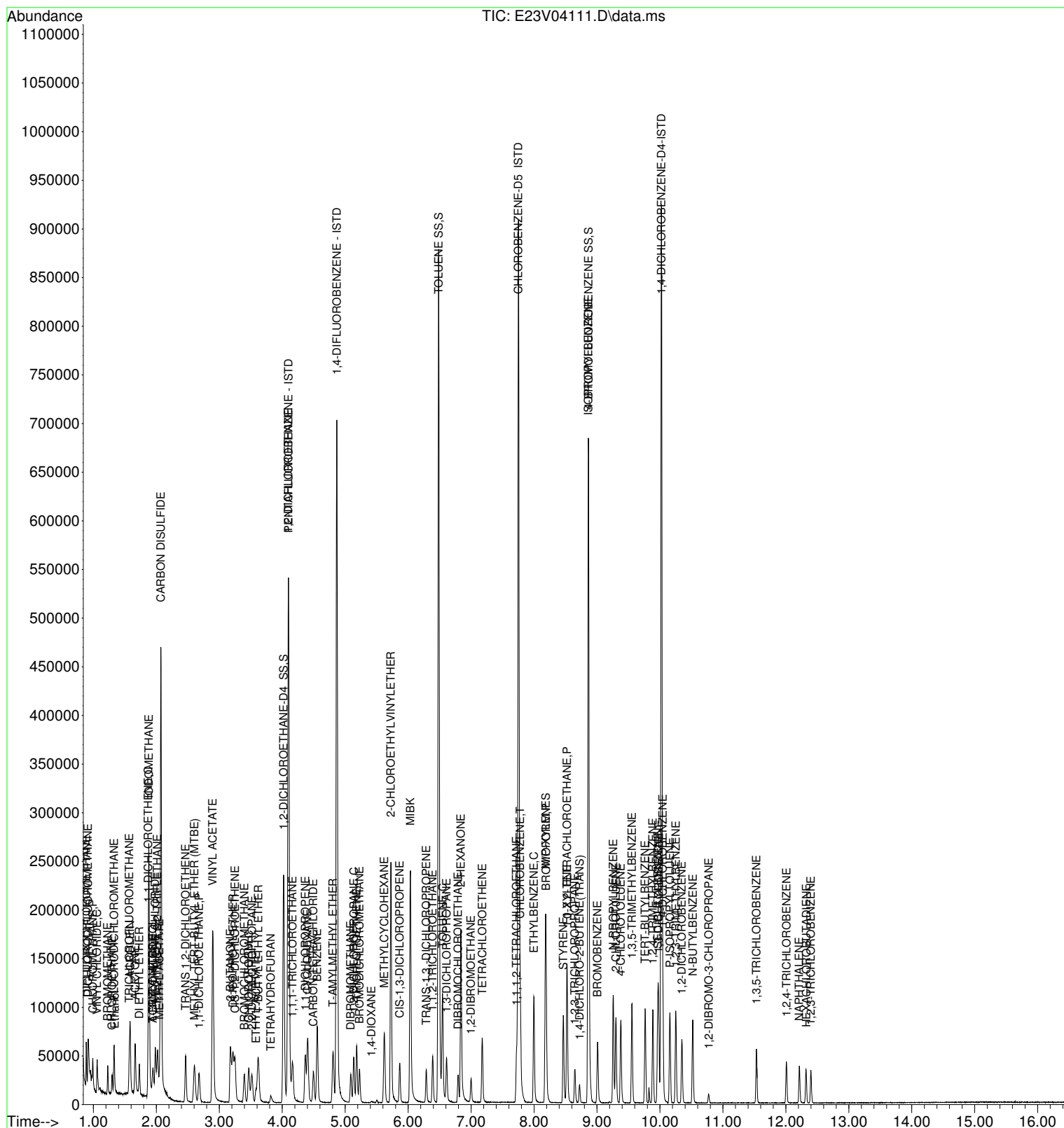
Quant Time: Feb 10 07:38:22 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Thu Jan 12 05:32:26 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) DIBROMOMETHANE	5.087	93	9610	4.41	UG/L	96
57) 1,4-DIOXANE	5.416	88	1466m	38.54	UG/L	
58) BROMODICHLOROMETHANE	5.226	83	19011	4.40	UG/L	99
59) 2-CHLOROETHYL VINYLETHYR	5.725	63	97730	63.87	UG/L	100
60) MIBK	6.035	43	145528	52.07	UG/L	97
61) CIS-1,3-DICHLOROPROPENE	5.865	75	20896	4.53	UG/L	95
62) TOLUENE	6.545	91	66384	4.70	UG/L	100
63) TRANS-1,3,-DICHLOROPRO...	6.286	75	16157	4.39	UG/L	95
65) 1,1,2-TRICHLOROETHANE	6.389	97	13742	4.69	UG/L	96
66) 2-HEXANONE	6.838	43	103889	53.45	UG/L	98
67) TETRACHLOROETHENE	7.178	166	17748	4.39	UG/L	98
68) 1,3-DICHLOROPROPANE	6.609	76	24042	4.92	UG/L	99
69) DIBROMOCHLOROMETHANE	6.793	129	14066	4.32	UG/L	98
70) 1,2-DIBROMOETHANE	6.997	107	14117	4.49	UG/L #	97
73) CHLOROBENZENE	7.778	112	42404	4.81	UG/L #	88
74) 1,1,1,2-TETRACHLOROETHANE	7.719	131	13823	4.56	UG/L #	1
75) ETHYLBENZENE	7.998	91	69496	4.83	UG/L	99
76) M/P-XYLENES	8.185	91	109530	9.57	UG/L	99
77) O-XYLENE	8.522	91	53465	4.80	UG/L	97
78) STYRENE	8.464	104	39691	4.83	UG/L	100
79) BROMOFORM	8.191	173	8966	3.79	UG/L #	98
80) ISOPROPYLBENZENE	8.860	105	67309	4.66	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	18593	5.06	UG/L	98
83) 1,4-DICHLORO-2-BUTENE(...	8.723	53	3682	4.35	UG/L #	73
84) BROMOBENZENE	9.008	77	25289	5.00	UG/L	89
85) 1,2,3-TRICHLOROPROPANE	8.648	75	14067	5.13	UG/L	93
86) N-PROPYLBENZENE	9.256	91	75569	4.73	UG/L	98
87) 2-CHLOROTOLUENE	9.300	91	46925m	4.92	UG/L	
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	49498	4.66	UG/L	99
89) 4-CHLOROTOLUENE	9.376	91	45113	4.74	UG/L	97
91) TERT-BUTYLBENZENE	9.763	119	42200	5.13	UG/L	100
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	46492	5.09	UG/L	99
93) SEC-BUTYLBENZENE	9.964	105	59493	5.16	UG/L	99
94) 1,3-DICHLOROBENZENE	9.978	146	27991	4.88	UG/L	100
95) P-ISOPROPYLTOLUENE	10.157	119	47390	4.98	UG/L	100
96) 1,4-DICHLOROBENZENE	10.045	146	29469	4.98	UG/L #	95
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	47637	5.15	UG/L	95
98) N-BUTYLBENZENE	10.522	91	43428	5.08	UG/L	99
99) 1,2-DICHLOROBENZENE	10.346	146	25218	5.05	UG/L	100
100) 1,2-DIBROMO-3-CHLOROPR...	10.773	75	2005	4.86	UG/L	96
101) 1,3,5-TRICHLOROBENZENE	11.531	180	16337	5.00	UG/L	98
102) 1,2,4-TRICHLOROBENZENE	12.008	180	12492	5.43	UG/L	95
103) HEXACHLOROBUTADIENE	12.323	225	6850	5.04	UG/L	92
104) NAPHTHALENE	12.212	128	26717	5.90	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.396	180	9718	5.61	UG/L	97

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

226

Quant Time: Feb 10 07:38:22 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Thu Jan 12 05:32:26 2023
Response via : Initial Calibration



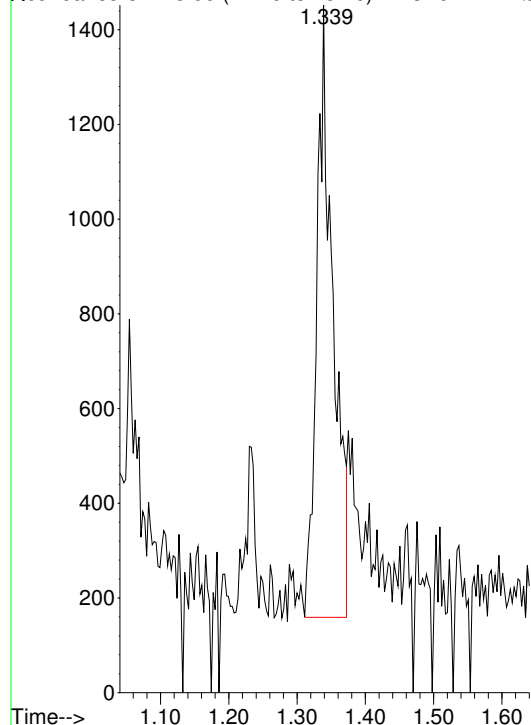
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Data File : E23V04111.D
Acq On : 9 Feb 2023 12:26 pm
Operator :
Sample : 8260STD 5.0PPB 2301701
Misc : 1

Quant Time : Fri Feb 10 07:38:22 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Thu Jan 12 05:32:26 2023

Original Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V04111.D



Original Int. Results

RT : 1.34
Area : 2128
Amount: 11.913

Manual Int. Results

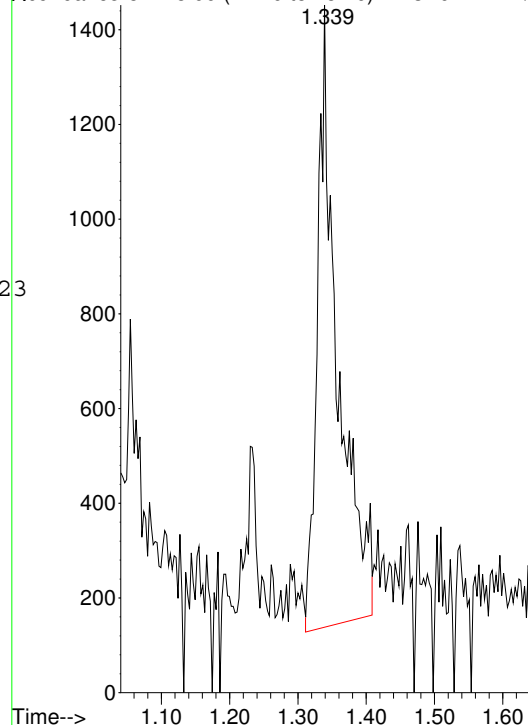
Fri Feb 10 07:36:30 2023

MIuser: EEH
Reason: Split Peak
RT : 1.34
Area : 2688
Amount: 22.6099

Manual Integration

Ethanol

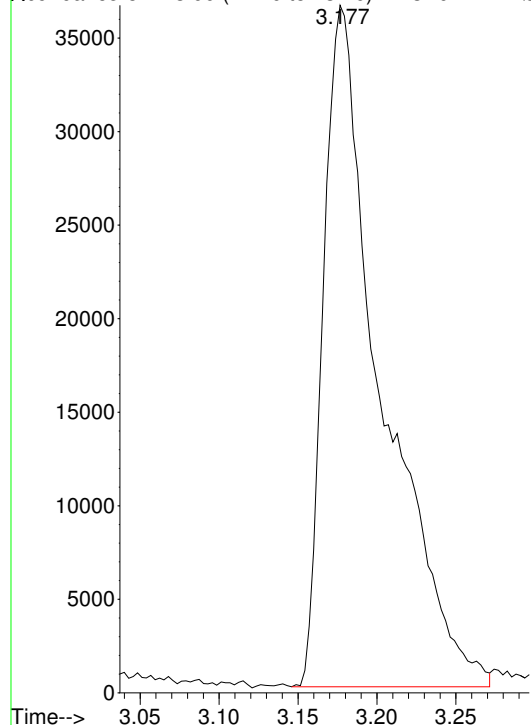
Abundance 45.00 (44.70 to 45.70): E23V04111.D



Original Integration

2-BUTANONE

Abundance 43.00 (42.70 to 43.70): E23V04111.D



Original Int. Results

RT : 3.18
Area : 92710
Amount: 73.3928

Manual Int. Results

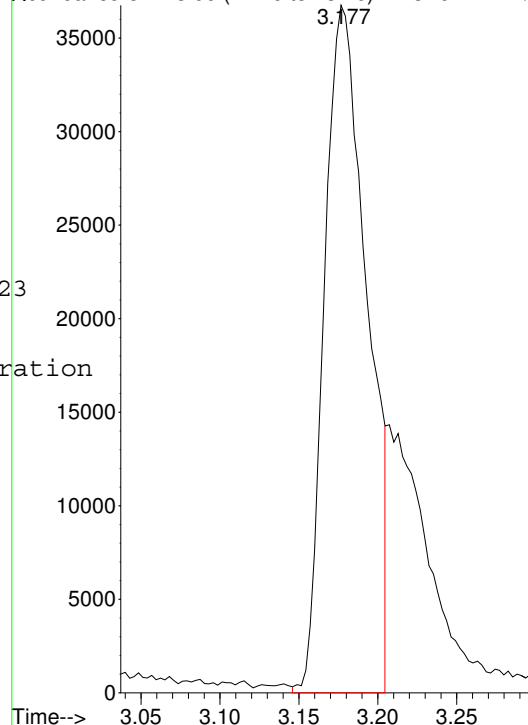
Fri Feb 10 07:37:27 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.18
Area : 69613
Amount: 55.1083

Manual Integration

2-BUTANONE

Abundance 43.00 (42.70 to 43.70): E23V04111.D



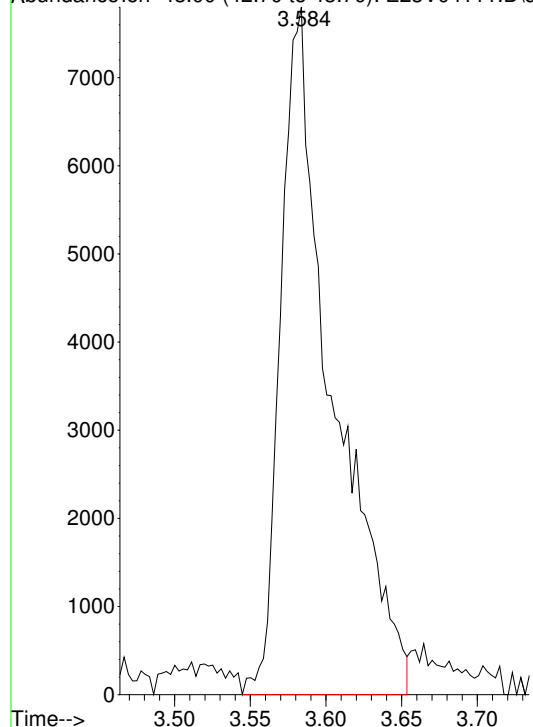
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04111.D
Acq On : 9 Feb 2023 12:26 pm
Operator :
Sample : 8260STD 5.0PPB 2301701
Misc : 1

Quant Time : Fri Feb 10 07:38:22 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Thu Jan 12 05:32:26 2023

Original Integration

ETHYL ACETATE

Abundance on 43.00 (42.70 to 43.70): E23V04111.D



Original Int. Results

RT : 3.58
Area : 18575
Amount: 6.92588

Manual Int. Results

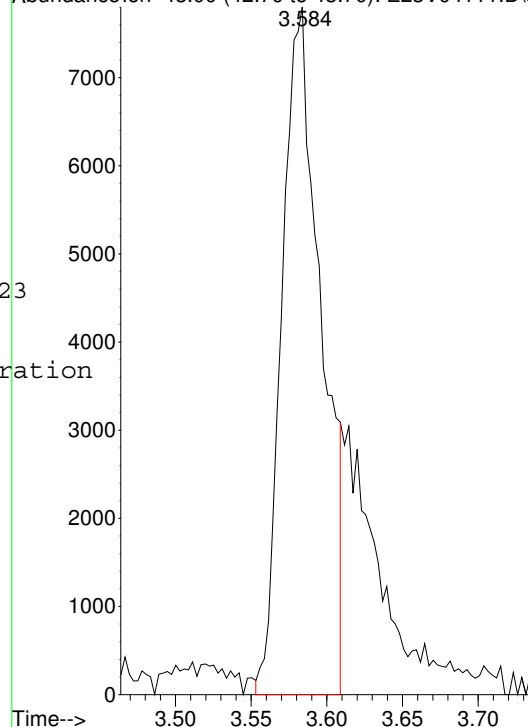
Fri Feb 10 07:37:33 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.58
Area : 14172
Amount: 5.28418

Manual Integration

ETHYL ACETATE

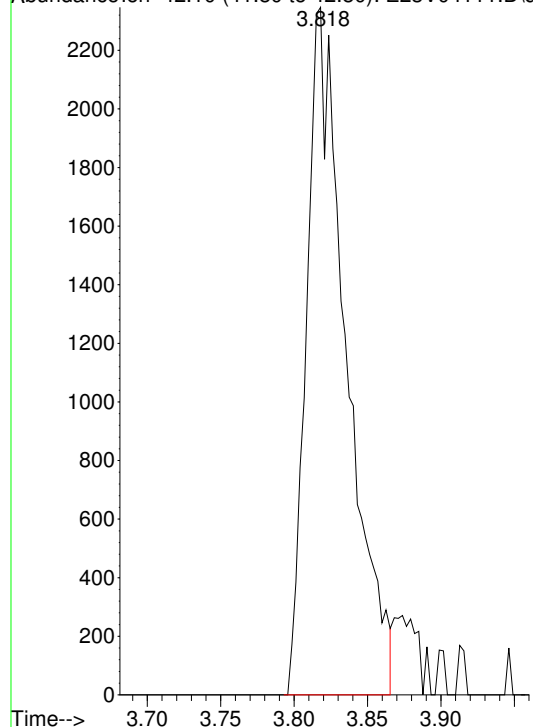
Abundance on 43.00 (42.70 to 43.70): E23V04111.D



Original Integration

TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04111.D



Original Int. Results

RT : 3.82
Area : 4424
Amount: 5.46317

Manual Int. Results

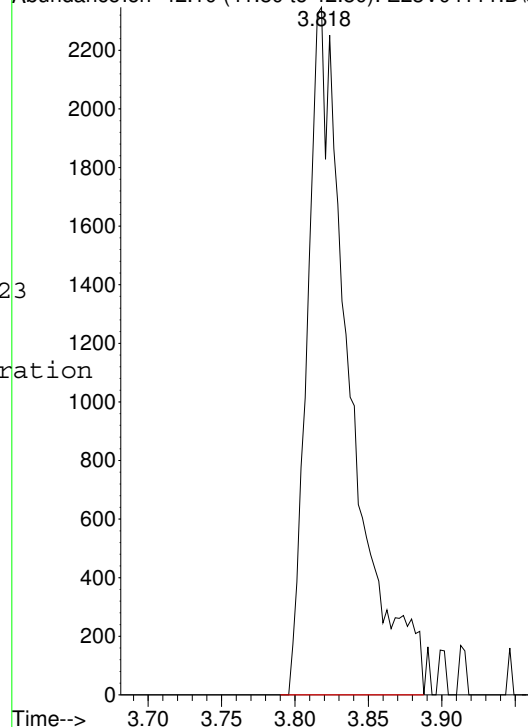
Fri Feb 10 07:37:44 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.82
Area : 4710
Amount: 5.81635

Manual Integration

TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04111.D



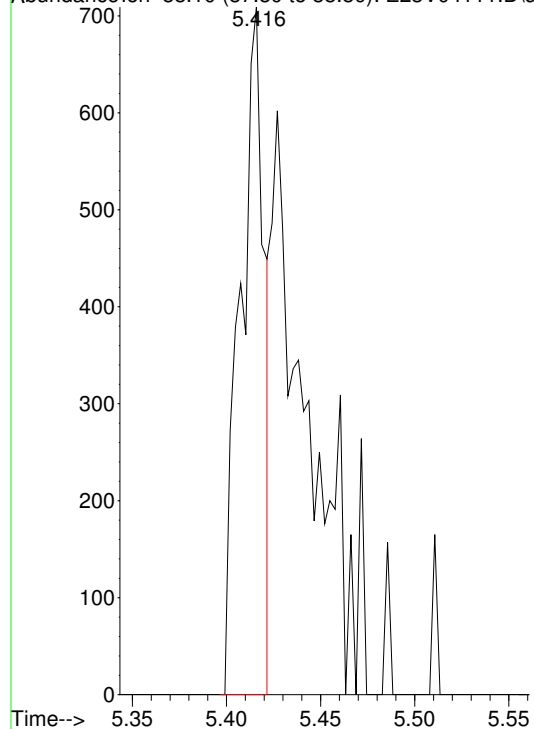
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04111.D
Acq On : 9 Feb 2023 12:26 pm
Operator :
Sample : 8260STD 5.0PPB 2301701
Misc : 1

Quant Time : Fri Feb 10 07:38:22 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Thu Jan 12 05:32:26 2023

Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V04111.D



Original Int. Results

RT : 5.42
Area : 622
Amount: 16.352

Manual Int. Results

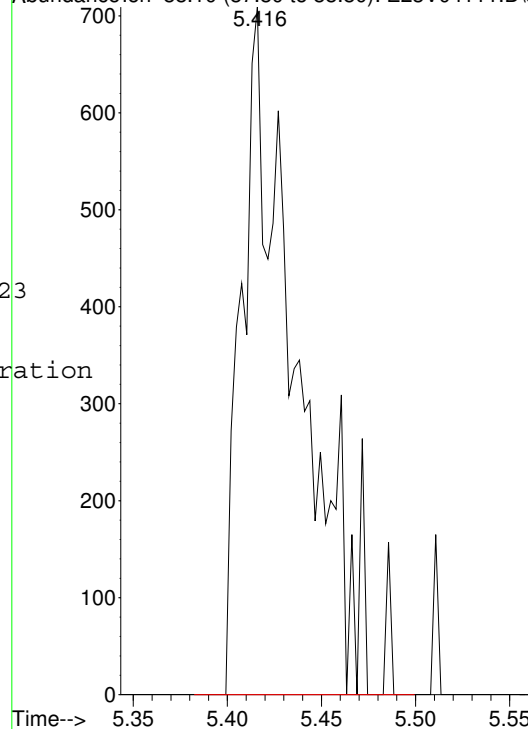
Fri Feb 10 07:38:00 2023

MIuser: EEH
Reason: Incorret Integration
RT : 5.42
Area : 1466
Amount: 38.5402

Manual Integration

1,4-DIOXANE

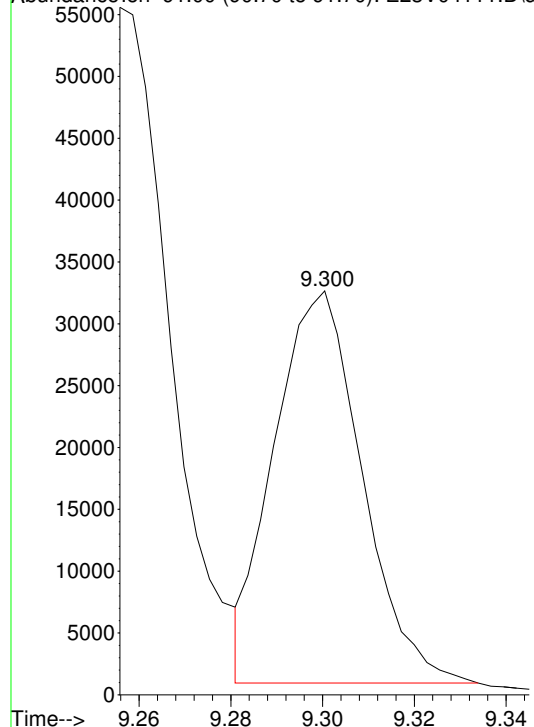
Abundance on 88.10 (87.80 to 88.80): E23V04111.D



Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04111.D



Original Int. Results

RT : 9.30
Area : 42315
Amount: 4.43899

Manual Int. Results

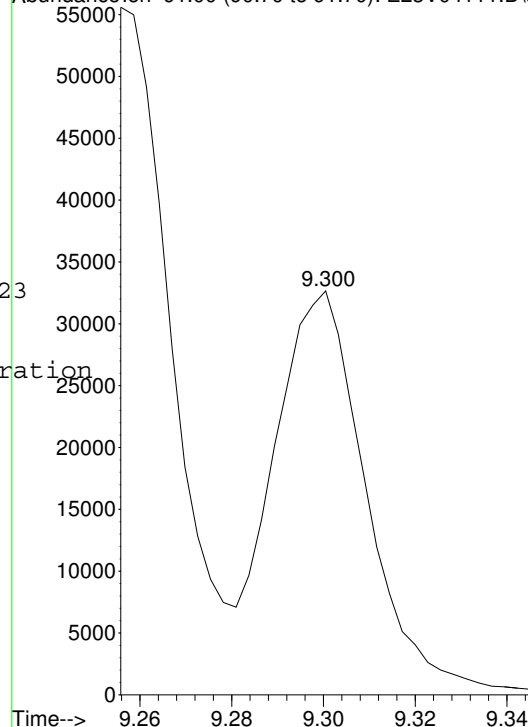
Fri Feb 10 07:38:22 2023

MIuser: EEH
Reason: Incorret Integration
RT : 9.30
Area : 46925
Amount: 4.92259

Manual Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04111.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04112.D
 Acq On : 9 Feb 2023 12:53 pm
 Operator :
 Sample : 8260STD 10PPB 2301702
 Misc : 1
 ALS Vial : 12 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:39:39 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	338948	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	511790	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	246167	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	216820	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.022	65	145595	25.55	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.20%
50) TOLUENE SS	6.484	98	497076	24.97	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.88%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	175591	23.58	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.32%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.918	85	41270	7.94	UG/L	98
4) DIFLUOROCHLOROMETHANE	0.887	51	46016	9.71	UG/L	94
5) CHLOROMETHANE	0.990	50	38011	9.55	UG/L	99
6) VINYL CHLORIDE	1.060	62	23497	3.16	UG/L	95
7) BROMOMETHANE	1.230	94	19618	5.21	UG/L	99
8) CHLOROETHANE	1.297	64	22660	8.01	UG/L	99
9) Ethanol	1.336	45	4854m	65.99	UG/L	
10) FLUORODICHLOROMETHANE	1.331	67	61214	7.23	UG/L	99
11) TRICHLOROFLUOROMETHANE	1.573	101	47891	6.48	UG/L	100
12) DI ETHYL ETHER	1.729	59	23816	8.47	UG/L	97
13) ACROLEIN	1.584	56	69989	76.17	UG/L	99
14) ACETONE	1.665	43	88212	64.86	UG/L	93
15) 1,1-DICHLOROETHENE	1.874	61	44541	7.76	UG/L	97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.019	101	36698	9.65	UG/L	94
17) IODOMETHANE	1.883	142	470235	85.04	UG/L	91
19) METHYL ACETATE	2.053	43	43668	10.20	UG/L	97
20) T-BUTYL ALCOHOL	1.950	59	28911	107.42	UG/L #	84
21) ACRYLONITRILE	1.947	53	14638	11.54	UG/L	94
22) METHYLENE CHLORIDE	1.983	49	43248	10.75	UG/L	90
23) CARBON DISULFIDE	2.075	76	1056766	108.74	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.605	73	84301	10.62	UG/L	96
25) TRANS 1,2-DICHLOROETHENE	2.468	61	46665	10.61	UG/L	92
26) 1,1-DICHLOROETHANE	2.680	63	57871	10.75	UG/L	98
28) VINYL ACETATE	2.898	43	592089	113.89	UG/L	96
30) DI ISOPROYL ETHER	3.216	45	98027	11.71	UG/L	90
31) 2-BUTANONE	3.174	43	150855m	122.01	UG/L	
33) T-BUTYL ETHYL ETHER	3.620	59	91073	11.05	UG/L	95
34) CIS-1,2-DICHLOROETHENE	3.249	61	44579	10.92	UG/L	94
35) 2,2-DICHLOROPROPANE	3.517	77	37564	8.97	UG/L	99
36) ETHYL ACETATE	3.581	43	30917m	11.78	UG/L	
37) BROMOCHLOROMETHANE	3.400	49	26181	10.92	UG/L #	77
38) TETRAHYDROFURAN	3.821	42	10066m	12.70	UG/L	
40) CHLOROFORM	3.472	83	57394	9.07	UG/L	99
42) 1,1,1-TRICHLOROETHANE	4.164	97	45183	9.28	UG/L	95
43) CYCLOHEXANE	4.404	56	61755	11.99	UG/L	91
44) CARBON TETRACHLORIDE	4.496	117	40540	10.08	UG/L	99
45) 1,1-DICHLOROPROPENE	4.365	75	45869	10.64	UG/L	95
46) BENZENE	4.557	78	132716	10.45	UG/L	99
48) T-AMYLMETHYL ETHER	4.808	73	81590	10.60	UG/L #	89
51) 1,2-DICHLOROETHANE	4.097	62	40479	8.25	UG/L #	67
53) TRICHLOROETHENE	5.182	95	34950	9.64	UG/L	96
54) METHYLCYCLOHEXANE	5.622	83	57751	10.65	UG/L	95
55) 1,2-DICHLOROPROPANE	5.134	63	35143	10.77	UG/L	93

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04112.D
 Acq On : 9 Feb 2023 12:53 pm
 Operator :
 Sample : 8260STD 10PPB 2301702
 Misc : 1
 ALS Vial : 12 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:39:39 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) DIBROMOMETHANE	5.087	93	20647	9.59	UG/L	97
57) 1,4-DIOXANE	5.410	88	3344m	88.91	UG/L	
58) BROMODICHLOROMETHANE	5.229	83	40096	9.39	UG/L	100
59) 2-CHLOROETHYL VINYLETHYR	5.725	63	214465	141.75	UG/L	100
60) MIBK	6.032	43	321223	116.23	UG/L	97
61) CIS-1,3-DICHLOROPROPENE	5.862	75	46303	10.15	UG/L	96
62) TOLUENE	6.545	91	138787	9.93	UG/L	100
63) TRANS-1,3,-DICHLOROPRO...	6.286	75	36960	10.15	UG/L	95
65) 1,1,2-TRICHLOROETHANE	6.389	97	29876	10.31	UG/L	98
66) 2-HEXANONE	6.835	43	226863	118.03	UG/L	96
67) TETRACHLOROETHENE	7.175	166	36676	9.18	UG/L	98
68) 1,3-DICHLOROPROPANE	6.609	76	51649	10.70	UG/L	98
69) DIBROMOCHLOROMETHANE	6.796	129	30820	9.57	UG/L	99
70) 1,2-DIBROMOETHANE	6.997	107	30894	9.94	UG/L	99
73) CHLOROBENZENE	7.778	112	90187	10.19	UG/L	93
74) 1,1,1,2-TETRACHLOROETHANE	7.722	131	30060	9.87	UG/L	94
75) ETHYLBENZENE	7.998	91	149509	10.36	UG/L	97
76) M/P-XYLENES	8.185	91	236419	20.58	UG/L	99
77) O-XYLENE	8.522	91	115400	10.31	UG/L	99
78) STYRENE	8.464	104	87380	10.59	UG/L	99
79) BROMOFORM	8.191	173	20171	8.49	UG/L	98
80) ISOPROPYLBENZENE	8.860	105	143798	9.92	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	39777	10.78	UG/L	99
83) 1,4-DICHLORO-2-BUTENE(...	8.720	53	7876	9.28	UG/L #	82
84) BROMOBENZENE	9.008	77	54497	10.73	UG/L	90
85) 1,2,3-TRICHLOROPROPANE	8.648	75	30419	11.06	UG/L	94
86) N-PROPYLBENZENE	9.256	91	165103	10.29	UG/L	98
87) 2-CHLOROTOLUENE	9.298	91	98758m	10.32	UG/L	
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	109618	10.28	UG/L	99
89) 4-CHLOROTOLUENE	9.379	91	97836	10.24	UG/L	98
91) TERT-BUTYLBENZENE	9.766	119	91517	11.24	UG/L	98
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	104601	11.57	UG/L	98
93) SEC-BUTYLBENZENE	9.964	105	131243	11.50	UG/L	99
94) 1,3-DICHLOROBENZENE	9.978	146	61948	10.90	UG/L	99
95) P-ISOPROPYLTOLUENE	10.159	119	106517	11.31	UG/L	99
96) 1,4-DICHLOROBENZENE	10.045	146	63443	10.82	UG/L	98
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	106247	11.61	UG/L	95
98) N-BUTYLBENZENE	10.522	91	98836	11.68	UG/L	99
99) 1,2-DICHLOROBENZENE	10.346	146	54960	11.11	UG/L	99
100) 1,2-DIBROMO-3-CHLOROPR...	10.770	75	4686	11.47	UG/L	97
101) 1,3,5-TRICHLOROBENZENE	11.534	180	36911	11.41	UG/L	98
102) 1,2,4-TRICHLOROBENZENE	12.008	180	28958	12.71	UG/L	94
103) HEXACHLOROBUTADIENE	12.321	225	15595	11.58	UG/L	93
104) NAPHTHALENE	12.215	128	62543	13.93	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.399	180	22938	13.36	UG/L	98

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

232

Inst : GCMSVOA5

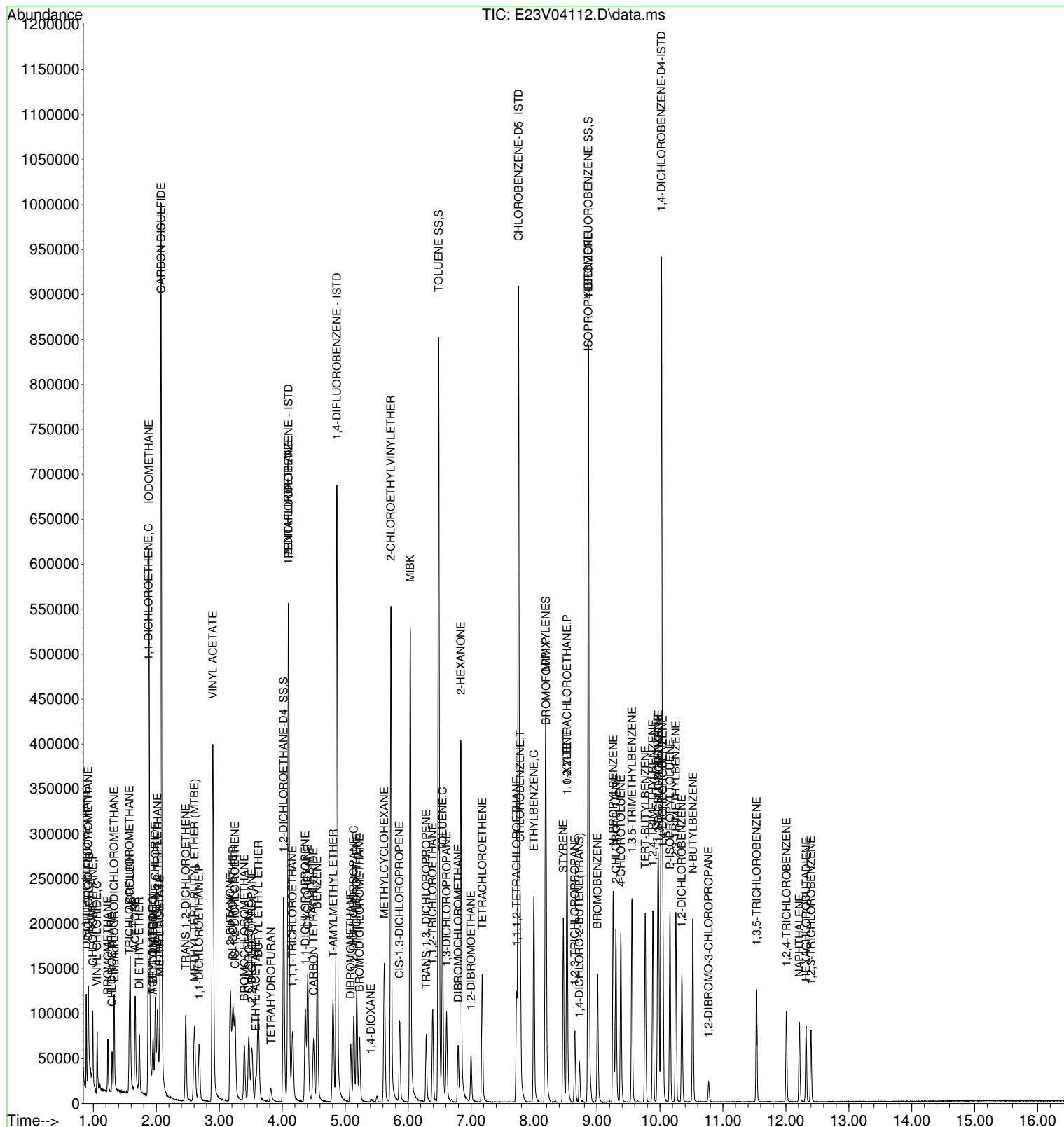
Quant Time: Feb 10 07:39:39 2023

Quant Method : C:\msdchem\1\METHODS\E011123W.m

Quant Title : 8260 WATER 5MLS VOAMS 5973 #5

QLast Update : Wed Jan 11 13:11:09 2023

Response via : Initial Calibration



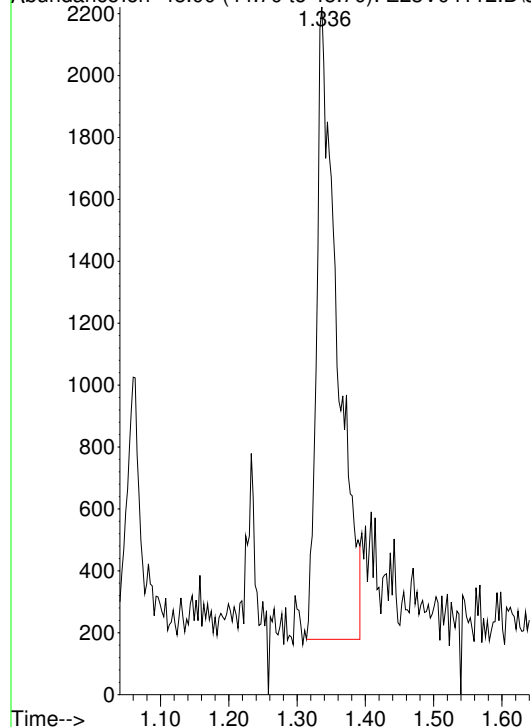
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04112.D
Acq On : 9 Feb 2023 12:53 pm
Operator :
Sample : 8260STD 10PPB 2301702
Misc : 1

Quant Time : Fri Feb 10 07:39:39 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V04112.D



Original Int. Results

RT : 1.34
Area : 4261
Amount: 54.4218

Manual Int. Results

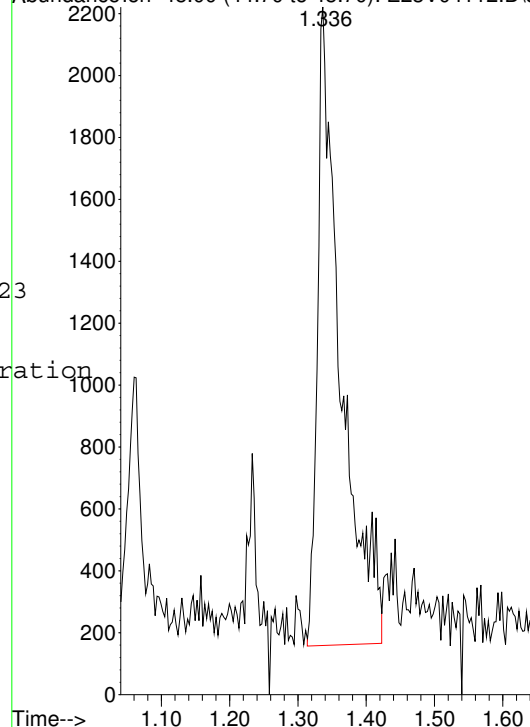
Fri Feb 10 07:36:56 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.34
Area : 4854
Amount: 65.9947

Manual Integration

Ethanol

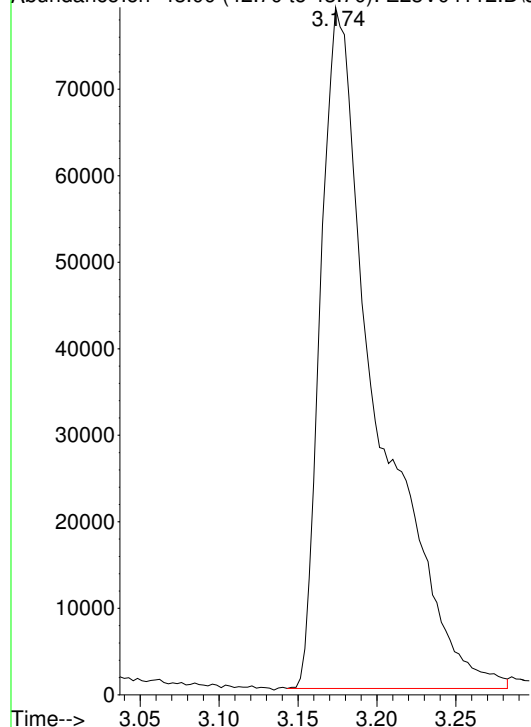
Abundance 45.00 (44.70 to 45.70): E23V04112.D



Original Integration

2-BUTANONE

Abundance 43.00 (42.70 to 43.70): E23V04112.D



Original Int. Results

RT : 3.17
Area : 196302
Amount: 158.77

Manual Int. Results

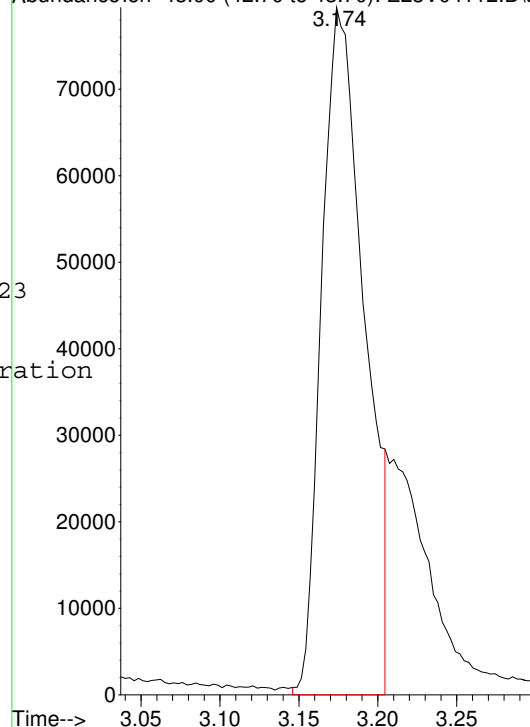
Fri Feb 10 07:39:01 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.17
Area : 150855
Amount: 122.012

Manual Integration

2-BUTANONE

Abundance 43.00 (42.70 to 43.70): E23V04112.D



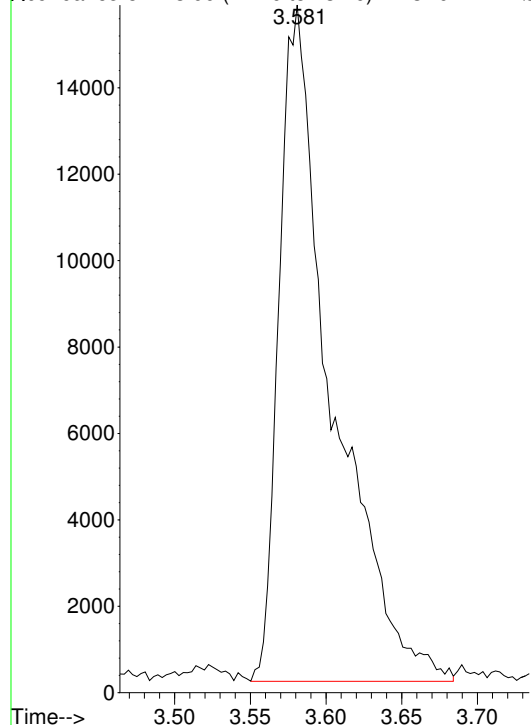
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04112.D
Acq On : 9 Feb 2023 12:53 pm
Operator :
Sample : 8260STD 10PPB 2301702
Misc : 1

Quant Time : Fri Feb 10 07:39:39 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

ETHYL ACETATE

Abundance on 43.00 (42.70 to 43.70): E23V04112.D



Original Int. Results

RT : 3.58
Area : 37951
Amount: 14.4573

Manual Int. Results

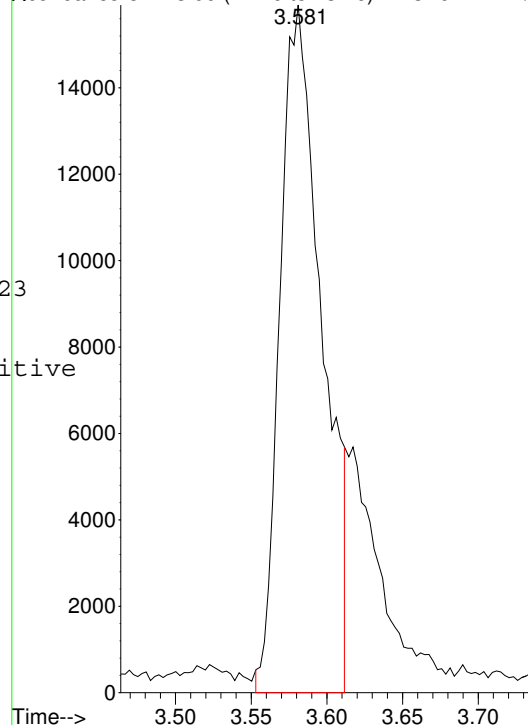
Fri Feb 10 07:39:08 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 3.58
Area : 30917
Amount: 11.7777

Manual Integration

ETHYL ACETATE

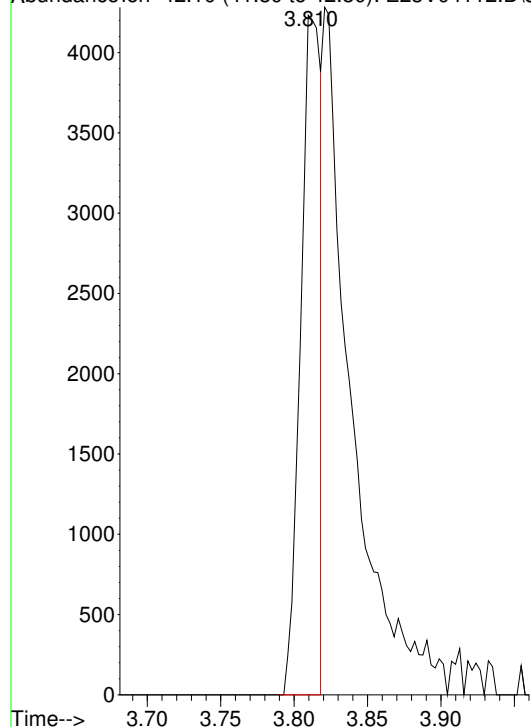
Abundance on 43.00 (42.70 to 43.70): E23V04112.D



Original Integration

TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04112.D



Original Int. Results

RT : 3.81
Area : 4001
Amount: 5.04795

Manual Int. Results

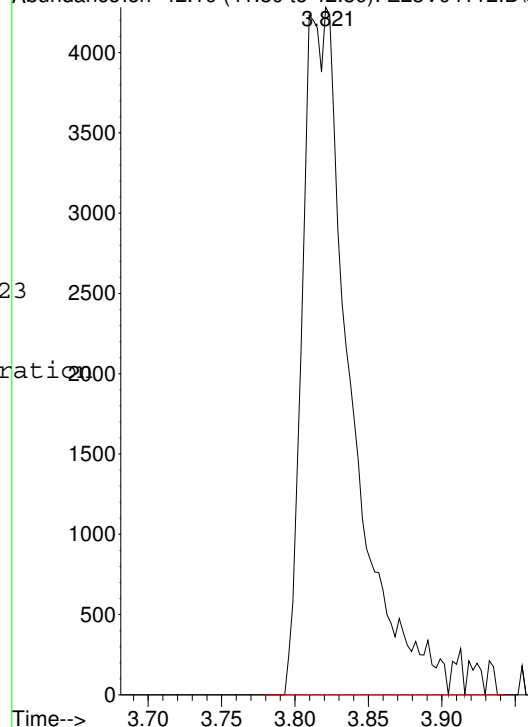
Fri Feb 10 07:39:12 2023

MIuser: EEH
Reason: Incoret Integratio
RT : 3.82
Area : 10066
Amount: 12.7

Manual Integration

TETRAHYDROFURAN

Abundance on 42.10 (41.80 to 42.80): E23V04112.D



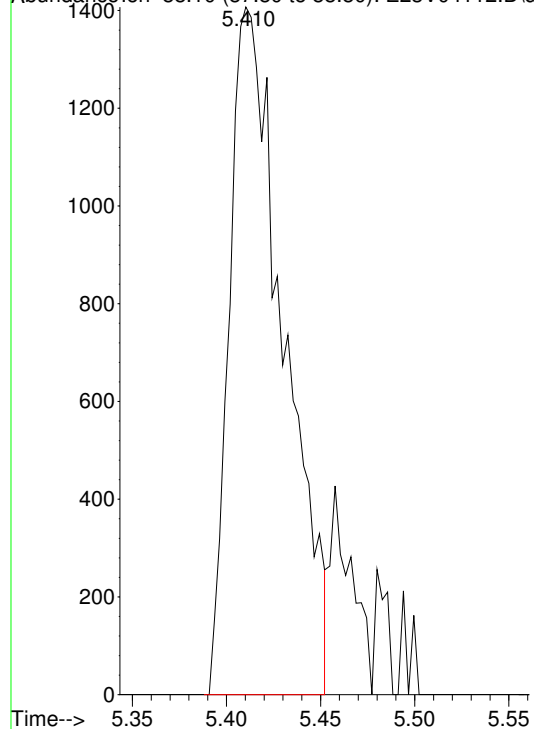
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04112.D
Acq On : 9 Feb 2023 12:53 pm
Operator :
Sample : 8260STD 10PPB 2301702
Misc : 1

Quant Time : Fri Feb 10 07:39:39 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V04112.D



Original Int. Results

RT : 5.41
Area : 2830
Amount: 75.2411

Manual Int. Results

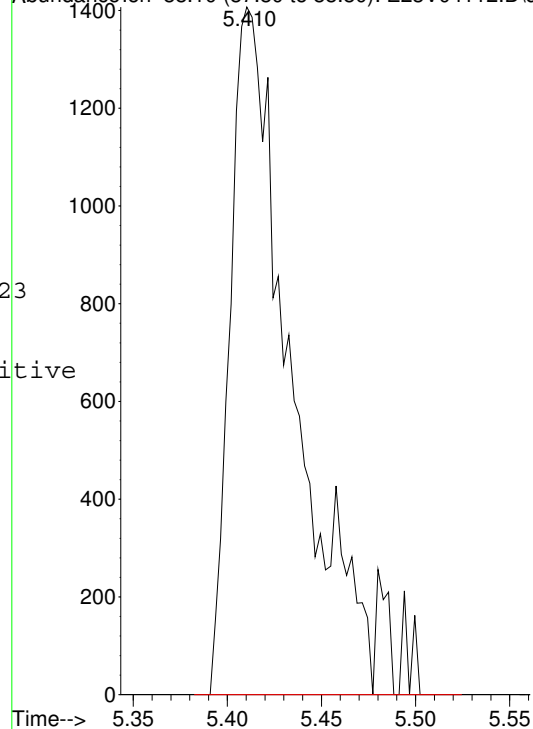
Fri Feb 10 07:39:23 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 5.41
Area : 3344
Amount: 88.9067

Manual Integration

1,4-DIOXANE

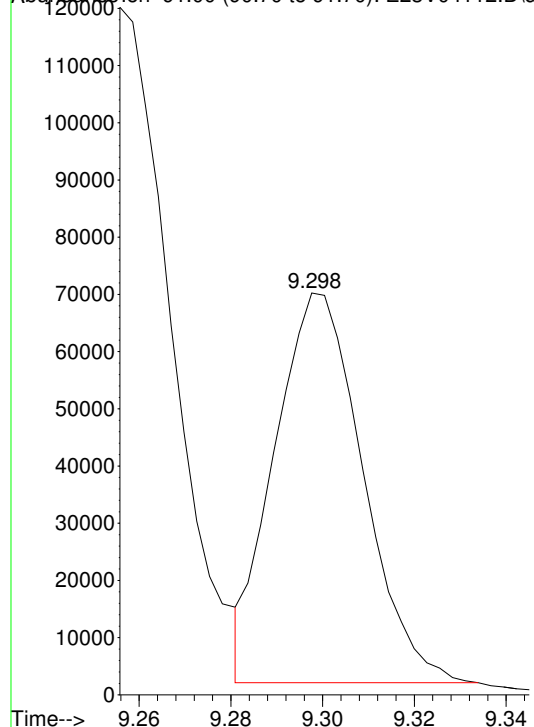
Abundance on 88.10 (87.80 to 88.80): E23V04112.D



Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04112.D



Original Int. Results

RT : 9.30
Area : 91273
Amount: 9.5412

Manual Int. Results

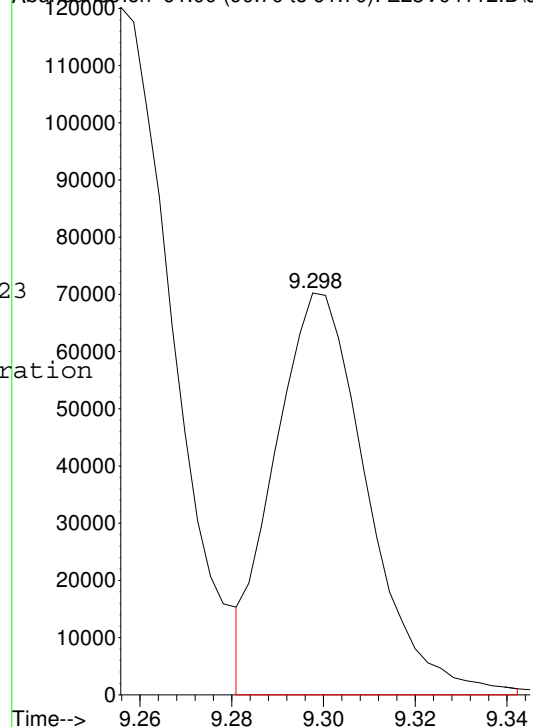
Fri Feb 10 07:39:39 2023

MIuser: EEH
Reason: Incoret Integration
RT : 9.30
Area : 98758
Amount: 10.3236

Manual Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04112.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04113.D
 Acq On : 9 Feb 2023 1:21 pm
 Operator :
 Sample : 8260STD 20PPB 2301703
 Misc : 1
 ALS Vial : 13 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:41:02 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.099	168	345312	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	523598	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	247121	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	220107	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	147082	25.34	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	101.36%		
50) TOLUENE SS	6.484	98	501893	24.65	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	98.60%		
72) 4-BROMOFLUOROBENZENE SS	8.862	95	176366	23.60	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	94.40%		
Target Compounds						
					Qvalue	
3) DICHLORODIFLUOROMETHANE	0.915	85	80357	15.18	UG/L	99
4) DIFLUOROCHLOROMETHANE	0.887	51	89093	18.46	UG/L	92
5) CHLOROMETHANE	0.990	50	64329	15.86	UG/L	100
6) VINYL CHLORIDE	1.057	62	40480m	5.35	UG/L	
7) BROMOMETHANE	1.227	94	36733	9.58	UG/L	97
8) CHLOROETHANE	1.294	64	39387	13.66	UG/L	98
9) Ethanol	1.341	45	10721m	176.64	UG/L	
10) FLUORODICHLOROMETHANE	1.328	67	121733	14.11	UG/L	99
11) TRICHLOROFLUOROMETHANE	1.570	101	97858	13.00	UG/L	99
12) DI ETHYL ETHER	1.729	59	47424	16.55	UG/L	95
13) ACROLEIN	1.584	56	138116	147.53	UG/L	99
14) ACETONE	1.662	43	174024	125.59	UG/L	94
15) 1,1-DICHLOROETHENE	1.871	61	92055	15.73	UG/L	97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.016	101	70499	18.20	UG/L	98
17) IODOMETHANE	1.880	142	982830	174.47	UG/L	88
19) METHYL ACETATE	2.053	43	85716	19.65	UG/L	96
20) T-BUTYL ALCOHOL	1.947	59	55434	202.18	UG/L #	89
21) ACRYLONITRILE	1.944	53	26284	20.34	UG/L	98
22) METHYLENE CHLORIDE	1.983	49	77333	18.86	UG/L	92
23) CARBON DISULFIDE	2.072	76	2005051	202.52	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.605	73	164471	20.33	UG/L	95
25) TRANS 1,2-DICHLOROETHENE	2.462	61	93263	20.82	UG/L	93
26) 1,1-DICHLOROETHANE	2.677	63	117686	21.45	UG/L	98
28) VINYL ACETATE	2.898	43	1118897	211.26	UG/L	96
30) DI ISOPROYL ETHER	3.218	45	197442	23.14	UG/L	90
31) 2-BUTANONE	3.176	43	317456m	252.03	UG/L	
33) T-BUTYL ETHYL ETHER	3.620	59	182631	21.75	UG/L	96
34) CIS-1,2-DICHLOROETHENE	3.249	61	90237	21.69	UG/L	94
35) 2,2-DICHLOROPROPANE	3.517	77	75320	17.66	UG/L	99
36) ETHYL ACETATE	3.575	43	58089	21.72	UG/L	98
37) BROMOCHLOROMETHANE	3.397	49	51265	21.00	UG/L #	78
38) TETRAHYDROFURAN	3.809	42	18184	22.52	UG/L	91
40) CHLOROFORM	3.469	83	115518	17.93	UG/L	100
42) 1,1,1-TRICHLOROETHANE	4.164	97	91244	18.40	UG/L	99
43) CYCLOHEXANE	4.403	56	124433	23.71	UG/L	91
44) CARBON TETRACHLORIDE	4.495	117	82341	20.10	UG/L	100
45) 1,1-DICHLOROPROPENE	4.367	75	91723	20.88	UG/L	95
46) BENZENE	4.557	78	271242	20.96	UG/L	99
48) T-AMYLMETHYL ETHER	4.808	73	164385	20.96	UG/L #	90
51) 1,2-DICHLOROETHANE	4.097	62	77436	15.43	UG/L #	79
53) TRICHLOROETHENE	5.184	95	71555	19.30	UG/L	95
54) METHYLCYCLOHEXANE	5.622	83	114336	20.60	UG/L	94
55) 1,2-DICHLOROPROPANE	5.134	63	69330	20.77	UG/L	93

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04113.D
 Acq On : 9 Feb 2023 1:21 pm
 Operator :
 Sample : 8260STD 20PPB 2301703
 Misc : 1
 ALS Vial : 13 Sample Multiplier: 1

Inst : GCMSVOA5

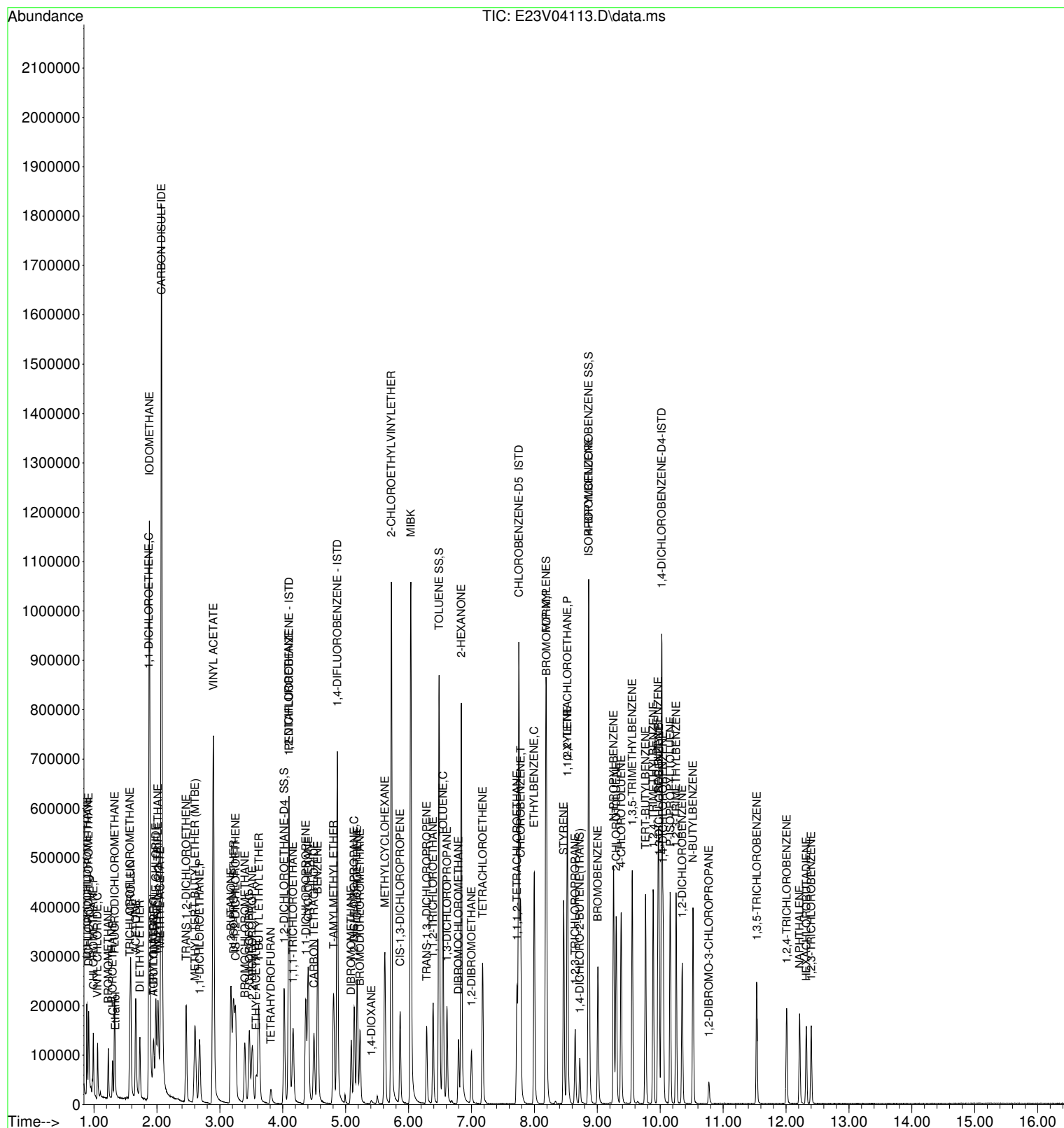
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 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) DIBROMOMETHANE	5.087	93	41141	18.68	UG/L	97
57) 1,4-DIOXANE	5.407	88	6678m	173.54	UG/L	
58) BROMODICHLOROMETHANE	5.229	83	80046	18.32	UG/L	100
59) 2-CHLOROETHYL VINYLETHYR	5.725	63	420754	271.82	UG/L	100
60) MIBK	6.035	43	638447	225.80	UG/L	97
61) CIS-1,3-DICHLOROPROPENE	5.865	75	95781	20.53	UG/L	96
62) TOLUENE	6.545	91	280391	19.61	UG/L	99
63) TRANS-1,3,-DICHLOROPRO...	6.286	75	73447	19.71	UG/L	97
65) 1,1,2-TRICHLOROETHANE	6.389	97	58103	19.59	UG/L	97
66) 2-HEXANONE	6.838	43	446560	227.09	UG/L	96
67) TETRACHLOROETHENE	7.175	166	74366	18.19	UG/L	98
68) 1,3-DICHLOROPROPANE	6.609	76	101660	20.58	UG/L	99
69) DIBROMOCHLOROMETHANE	6.793	129	61334	18.61	UG/L	100
70) 1,2-DIBROMOETHANE	7.000	107	61601	19.37	UG/L	100
73) CHLOROBENZENE	7.780	112	179103	20.16	UG/L	95
74) 1,1,1,2-TETRACHLOROETHANE	7.722	131	60982	19.96	UG/L	96
75) ETHYLBENZENE	7.995	91	299265	20.66	UG/L	98
76) M/P-XYLENES	8.185	91	477428	41.41	UG/L	99
77) O-XYLENE	8.522	91	228929	20.38	UG/L	100
78) STYRENE	8.464	104	175100	21.13	UG/L	100
79) BROMOFORM	8.190	173	40941	17.17	UG/L	99
80) ISOPROPYLBENZENE	8.860	105	283869	19.50	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	75921	20.50	UG/L	99
83) 1,4-DICHLORO-2-BUTENE(...	8.720	53	16289	19.11	UG/L #	81
84) BROMOBENZENE	9.007	77	104630	20.51	UG/L	90
85) 1,2,3-TRICHLOROPROPANE	8.648	75	58585	21.22	UG/L	94
86) N-PROPYLBENZENE	9.256	91	331543	20.58	UG/L	98
87) 2-CHLOROTOLUENE	9.297	91	190351m	19.82	UG/L	
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	216351	20.22	UG/L	100
89) 4-CHLOROTOLUENE	9.378	91	193011	20.13	UG/L	98
91) TERT-BUTYLBENZENE	9.766	119	179272	21.68	UG/L	98
92) 1,2,4-TRIMETHYLBENZENE	9.889	105	207184	22.57	UG/L	98
93) SEC-BUTYLBENZENE	9.967	105	257050	22.18	UG/L	99
94) 1,3-DICHLOROBENZENE	9.981	146	119536	20.72	UG/L	99
95) P-ISOPROPYLTOLUENE	10.156	119	210174	21.98	UG/L	100
96) 1,4-DICHLOROBENZENE	10.045	146	120443	20.23	UG/L	99
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	210527	22.65	UG/L	95
98) N-BUTYLBENZENE	10.519	91	191394	22.28	UG/L	99
99) 1,2-DICHLOROBENZENE	10.349	146	107837	21.47	UG/L	100
100) 1,2-DIBROMO-3-CHLOROPR...	10.770	75	9224	22.23	UG/L	99
101) 1,3,5-TRICHLOROBENZENE	11.534	180	72293	22.02	UG/L	99
102) 1,2,4-TRICHLOROBENZENE	12.008	180	55486	24.00	UG/L	95
103) HEXACHLOROBUTADIENE	12.320	225	30768	22.50	UG/L	92
104) NAPHTHALENE	12.214	128	122846	26.96	UG/L	98
105) 1,2,3-TRICHLOROBENZENE	12.398	180	44701	25.65	UG/L	98

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

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Inst : GCMSVOA5

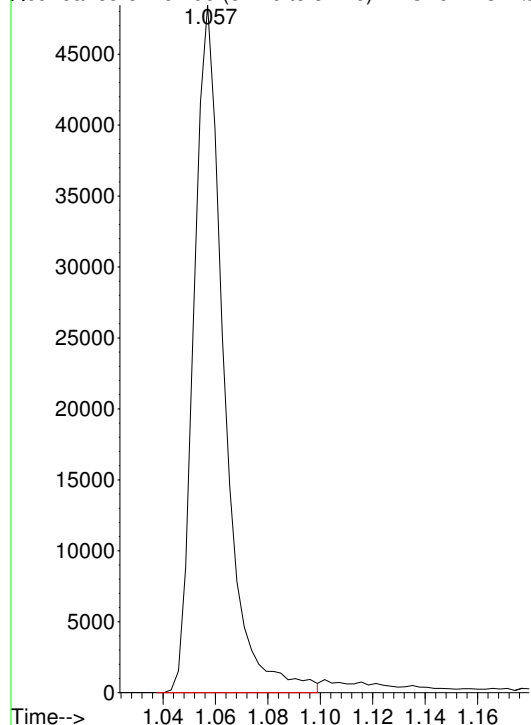


Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04113.D
Acq On : 9 Feb 2023 1:21 pm
Operator :
Sample : 8260STD 20PPB 2301703
Misc : 1

Quant Time : Fri Feb 10 07:41:02 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration
VINYL CHLORIDE

Abundance on 62.00 (61.70 to 62.70): E23V04113.D



Original Int. Results

RT : 1.06
Area : 38756
Amount: 5.12201

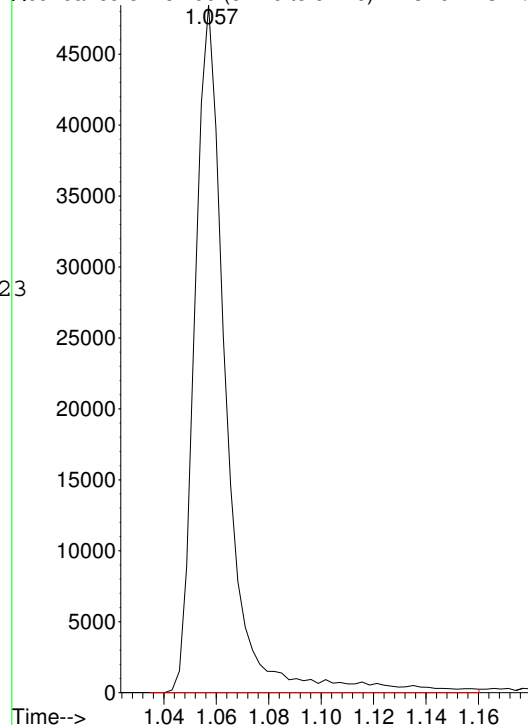
Manual Int. Results

Fri Feb 10 07:40:03 2023

MIuser: EEH
Reason: Other
RT : 1.06
Area : 40480
Amount: 5.34985

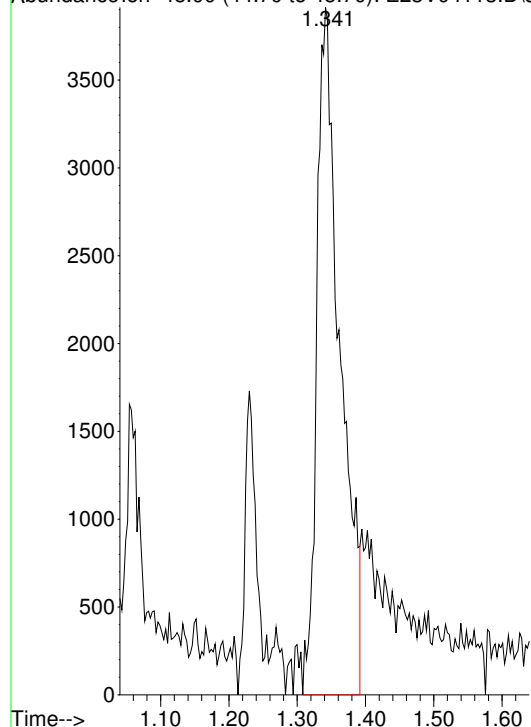
Manual Integration
VINYL CHLORIDE

Abundance on 62.00 (61.70 to 62.70): E23V04113.D



Original Integration
Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V04113.D



Original Int. Results

RT : 1.34
Area : 9303
Amount: 149.475

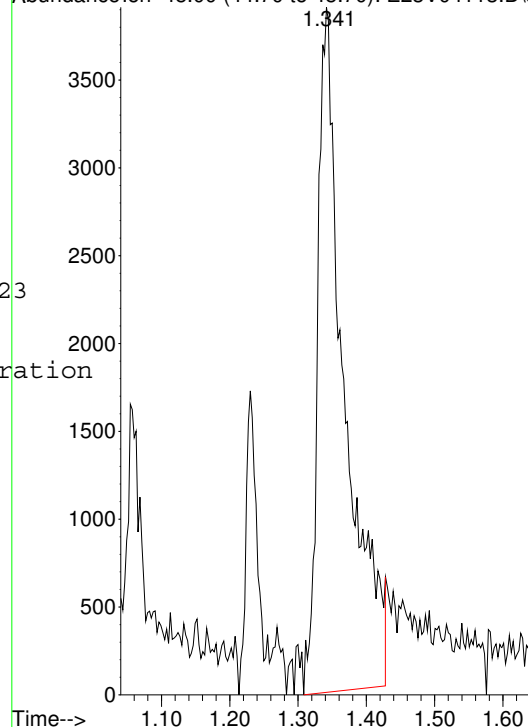
Manual Int. Results

Fri Feb 10 07:40:13 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.34
Area : 10721
Amount: 176.638

Manual Integration
Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V04113.D



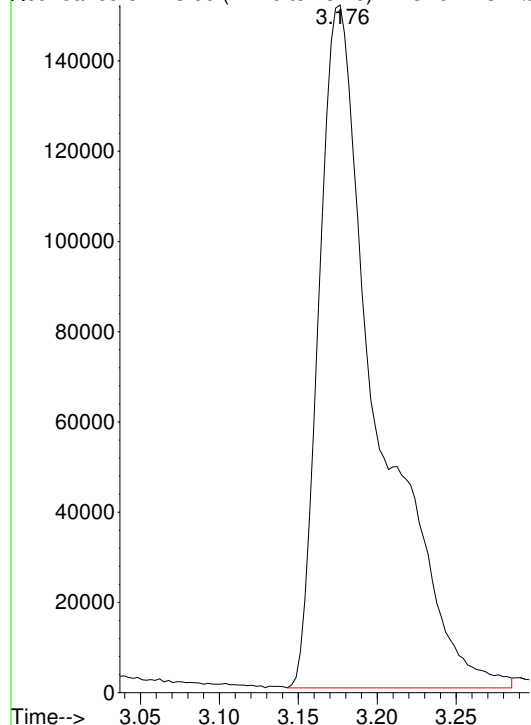
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Acq On : 9 Feb 2023 1:21 pm
Operator :
Sample : 8260STD 20PPB 2301703
Misc : 1

Quant Time : Fri Feb 10 07:41:02 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V04113.D



Original Int. Results

RT : 3.18
Area : 391587
Amount: 310.881

Manual Int. Results

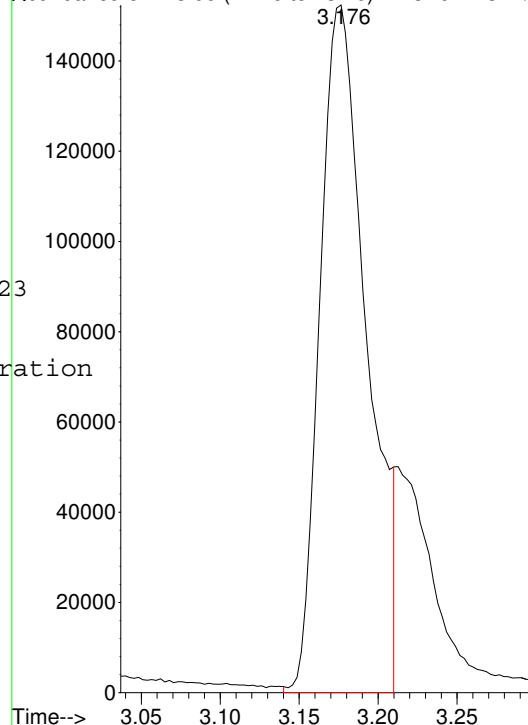
Fri Feb 10 07:40:31 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.18
Area : 317456
Amount: 252.028

Manual Integration

2-BUTANONE

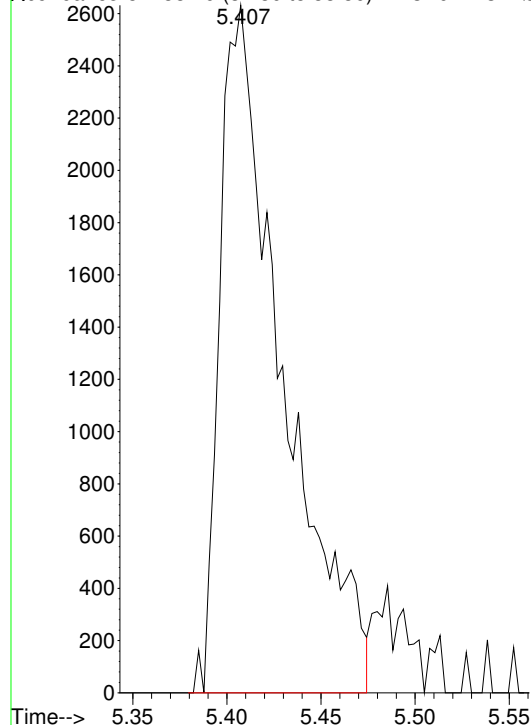
Abundance on 43.00 (42.70 to 43.70): E23V04113.D



Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V04113.D



Original Int. Results

RT : 5.41
Area : 6082
Amount: 158.055

Manual Int. Results

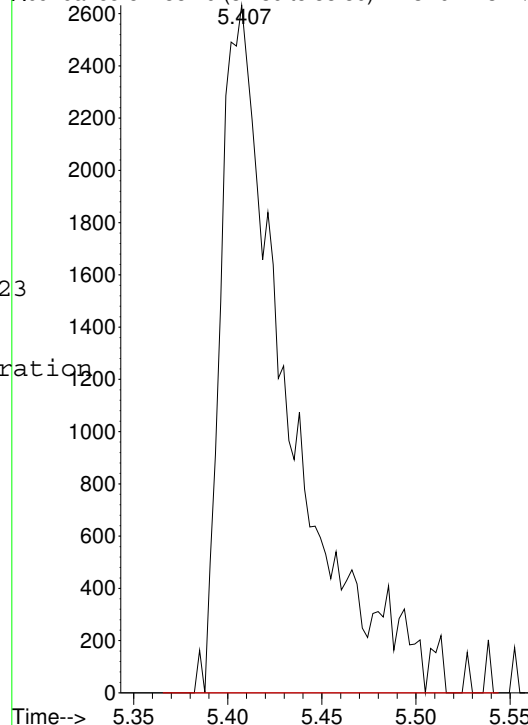
Fri Feb 10 07:40:45 2023

MIuser: EEH
Reason: Incoret Integration
RT : 5.41
Area : 6678
Amount: 173.544

Manual Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V04113.D



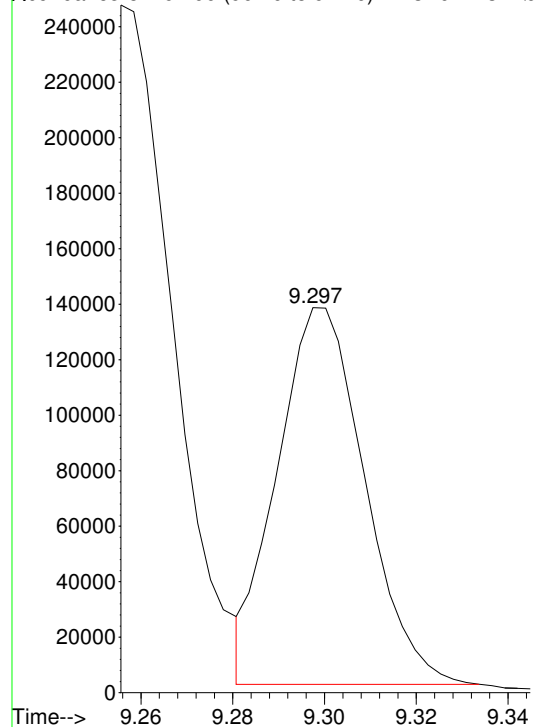
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Data File : E23V04113.D
Acq On : 9 Feb 2023 1:21 pm
Operator :
Sample : 8260STD 20PPB 2301703
Misc : 1

Quant Time : Fri Feb 10 07:41:02 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04113.D



Original Int. Results

RT : 9.30
Area : 180035
Amount: 18.7473

Manual Int. Results

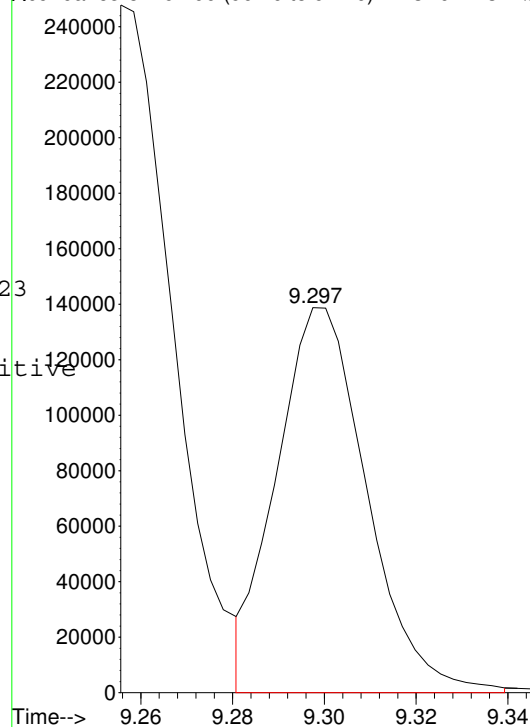
Fri Feb 10 07:41:02 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 9.30
Area : 190351
Amount: 19.8215

Manual Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04113.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04114.D
 Acq On : 9 Feb 2023 1:48 pm
 Operator :
 Sample : 8260STD 50PPB 2301704
 Misc : 1
 ALS Vial : 14 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:42:30 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	340443	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	514599	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	251191	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	217430	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	137543	24.03	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	96.12%		
50) TOLUENE SS	6.484	98	493089	24.64	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	98.56%		
72) 4-BROMOFLUOROBENZENE SS	8.863	95	176631	23.25	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	93.00%		
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.915	85	218417	41.85	UG/L	100
4) DIFLUOROCHLOROMETHANE	0.887	51	226847	47.66	UG/L	93
5) CHLOROMETHANE	0.990	50	185190	46.32	UG/L	100
6) VINYL CHLORIDE	1.060	62	122575m	16.43	UG/L	
7) BROMOMETHANE	1.230	94	107967	28.57	UG/L	98
8) CHLOROETHANE	1.297	64	96665	34.00	UG/L	98
10) FLUORODICHLOROMETHANE	1.328	67	301002	35.40	UG/L	99
11) TRICHLOROFLUOROMETHANE	1.570	101	246090	33.16	UG/L	99
12) DI ETHYL ETHER	1.729	59	116235	41.15	UG/L	96
13) ACROLEIN	1.584	56	371423	402.43	UG/L	100
14) ACETONE	1.662	43	422083	308.98	UG/L	92
15) 1,1-DICHLOROETHENE	1.871	61	222057	38.50	UG/L	98
16) 1,1,2-TRICL-1,2,2-TRIF...	2.016	101	179135	46.91	UG/L	96
17) IODOMETHANE	1.883	142	2391515	430.60	UG/L	91
19) METHYL ACETATE	2.053	43	212485	49.42	UG/L	96
20) T-BUTYL ALCOHOL	1.950	59	142801	528.26	UG/L #	91
21) ACRYLONITRILE	1.947	53	64996	51.01	UG/L	97
22) METHYLENE CHLORIDE	1.983	49	173500	42.93	UG/L	92
23) CARBON DISULFIDE	2.072	76	5124590	525.02	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.605	73	426921	53.53	UG/L	95
25) TRANS 1,2-DICHLOROETHENE	2.465	61	228872	51.82	UG/L	94
26) 1,1-DICHLOROETHANE	2.680	63	289332	53.50	UG/L	97
28) VINYL ACETATE	2.898	43	3153808	603.98	UG/L	97
30) DI ISOPROYL ETHER	3.218	45	493097	58.63	UG/L	90
31) 2-BUTANONE	3.174	43	785031	632.15	UG/L	95
33) T-BUTYL ETHYL ETHER	3.617	59	462756	55.89	UG/L	95
34) CIS-1,2-DICHLOROETHENE	3.249	61	222456	54.24	UG/L	94
35) 2,2-DICHLOROPROPANE	3.517	77	205165	48.80	UG/L	100
36) ETHYL ACETATE	3.575	43	152287m	57.76	UG/L	
37) BROMOCHLOROMETHANE	3.400	49	120791	50.18	UG/L #	80
38) TETRAHYDROFURAN	3.807	42	46741	58.71	UG/L	91
40) CHLOROFORM	3.469	83	289162	45.51	UG/L	99
42) 1,1,1-TRICHLOROETHANE	4.164	97	229392	46.92	UG/L	99
43) CYCLOHEXANE	4.404	56	311818	60.26	UG/L	90
44) CARBON TETRACHLORIDE	4.496	117	209431	51.85	UG/L	100
45) 1,1-DICHLOROPROPENE	4.364	75	232797	53.75	UG/L	96
46) BENZENE	4.557	78	655239	51.36	UG/L	99
48) T-AMYL METHYL ETHER	4.808	73	426147	55.10	UG/L #	92
51) 1,2-DICHLOROETHANE	4.097	62	190650	38.64	UG/L #	87
53) TRICHLOROETHENE	5.184	95	176870	48.54	UG/L	95
54) METHYLCYCLOHEXANE	5.622	83	287738	52.75	UG/L	95
55) 1,2-DICHLOROPROPANE	5.134	63	174795	53.29	UG/L #	92
56) DIBROMOMETHANE	5.090	93	105201	48.61	UG/L	96

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04114.D
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 Operator :
 Sample : 8260STD 50PPB 2301704
 Misc : 1
 ALS Vial : 14 Sample Multiplier: 1

Inst : GCMSVOA5

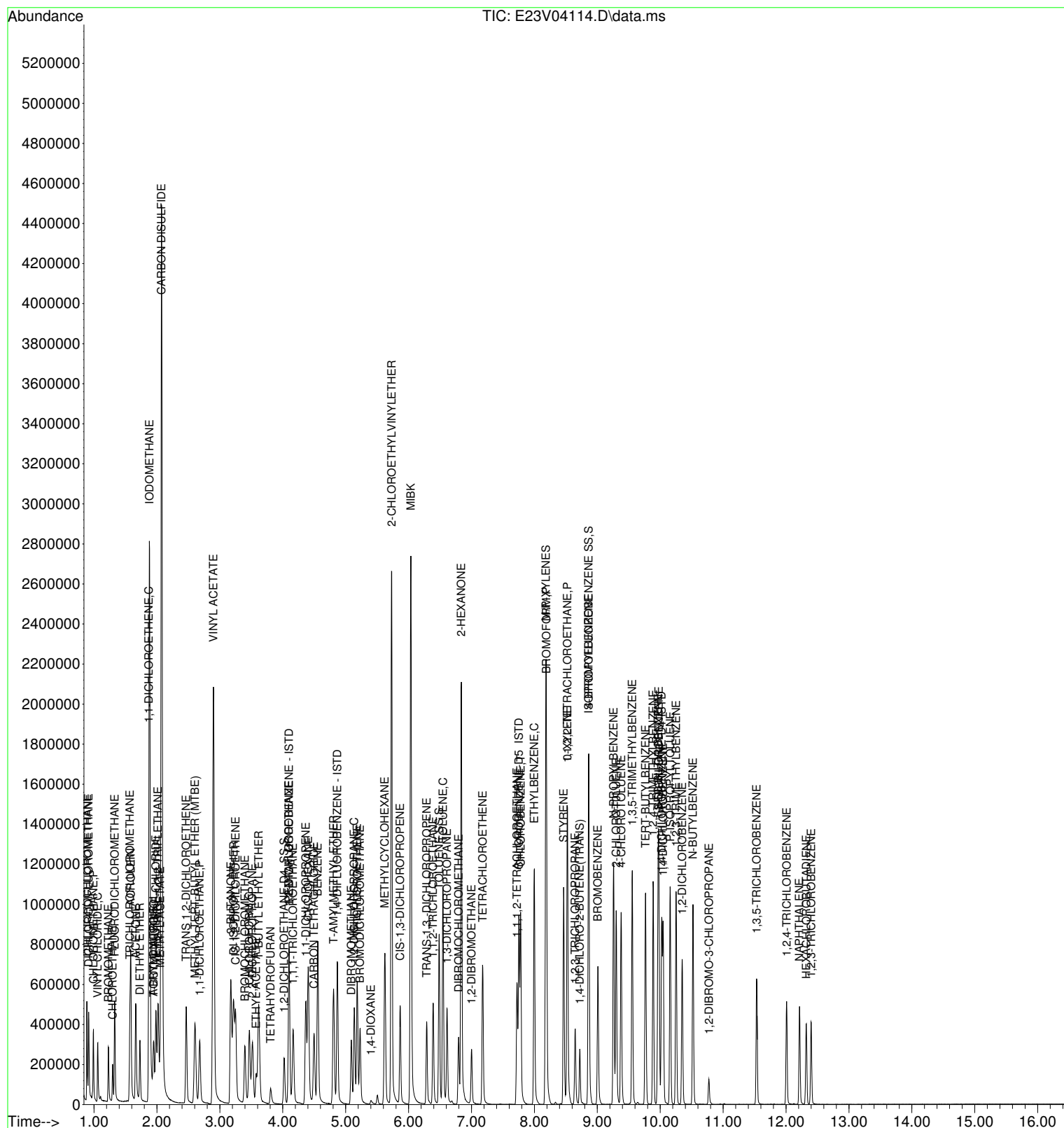
Quant Time: Feb 10 07:42:30 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
57) 1,4-DIOXANE	5.402	88	18621m	492.37	UG/L	
58) BROMODICHLOROMETHANE	5.229	83	209275	48.72	UG/L	99
59) 2-CHLOROETHYL VINYLETHER	5.731	63	1070334	703.56	UG/L	99
60) MIBK	6.035	43	1607615	578.50	UG/L	98
61) CIS-1,3-DICHLOROPROPENE	5.865	75	251232	54.78	UG/L	96
62) TOLUENE	6.545	91	689004	49.02	UG/L	100
63) TRANS-1,3,-DICHLOROPRO...	6.289	75	200714	54.81	UG/L	98
65) 1,1,2-TRICHLOROETHANE	6.389	97	145806	50.03	UG/L	96
66) 2-HEXANONE	6.838	43	1157849	599.10	UG/L	95
67) TETRACHLOROETHENE	7.178	166	190133	47.33	UG/L	100
68) 1,3-DICHLOROPROPANE	6.609	76	253458	52.21	UG/L	99
69) DIBROMOCHLOROMETHANE	6.796	129	162508	50.18	UG/L	99
70) 1,2-DIBROMOETHANE	7.000	107	156583	50.10	UG/L	99
73) CHLOROBENZENE	7.781	112	448486	49.68	UG/L	96
74) 1,1,1,2-TETRACHLOROETHANE	7.722	131	156315	50.32	UG/L	97
75) ETHYLBENZENE	7.998	91	760978	51.68	UG/L	99
76) M/P-XYLENES	8.182	91	1190070	101.54	UG/L	99
77) O-XYLENE	8.522	91	576495	50.49	UG/L	99
78) STYRENE	8.464	104	448834	53.30	UG/L	99
79) BROMOFORM	8.191	173	110976	45.79	UG/L	99
80) ISOPROPYLBENZENE	8.860	105	714970	48.32	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	197067	52.35	UG/L	99
83) 1,4-DICHLORO-2-BUTENE (...)	8.720	53	46044	53.15	UG/L	85
84) BROMOBENZENE	9.008	77	263528	50.83	UG/L	91
85) 1,2,3-TRICHLOROPROPANE	8.648	75	148788	53.02	UG/L	94
86) N-PROPYLBENZENE	9.259	91	828296	50.58	UG/L	98
87) 2-CHLOROTOLUENE	9.300	91	480260m	49.20	UG/L	
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	546006	50.20	UG/L	99
89) 4-CHLOROTOLUENE	9.378	91	489010	50.16	UG/L	99
91) TERT-BUTYLBENZENE	9.766	119	463231	56.71	UG/L	99
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	524090	57.80	UG/L	97
93) SEC-BUTYLBENZENE	9.964	105	645298	56.37	UG/L	99
94) 1,3-DICHLOROBENZENE	9.978	146	302335	53.06	UG/L	100
95) P-ISOPROPYLTOLUENE	10.156	119	536329	56.79	UG/L	99
96) 1,4-DICHLOROBENZENE	10.045	146	304048	51.70	UG/L	98
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	530563	57.80	UG/L	95
98) N-BUTYLBENZENE	10.519	91	493472	58.16	UG/L	98
99) 1,2-DICHLOROBENZENE	10.349	146	274816	55.39	UG/L	100
100) 1,2-DIBROMO-3-CHLOROPR...	10.773	75	25031	61.08	UG/L	99
101) 1,3,5-TRICHLOROBENZENE	11.531	180	187122	57.71	UG/L	98
102) 1,2,4-TRICHLOROBENZENE	12.008	180	149145	65.30	UG/L	95
103) HEXACHLOROBUTADIENE	12.320	225	78748	58.29	UG/L	91
104) NAPHTHALENE	12.212	128	334774	74.38	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.399	180	118276	68.69	UG/L	99

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

244

Inst : GCMSVOA5

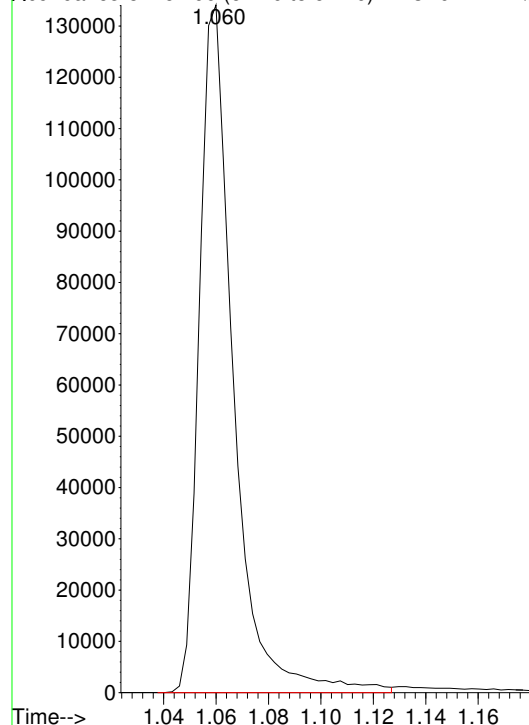


Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04114.D
Acq On : 9 Feb 2023 1:48 pm
Operator :
Sample : 8260STD 50PPB 2301704
Misc : 1

Quant Time : Fri Feb 10 07:42:30 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration
VINYL CHLORIDE

Abundance on 62.00 (61.70 to 62.70): E23V04114.D



Original Int. Results

RT : 1.06
Area : 121183
Amount: 16.2446

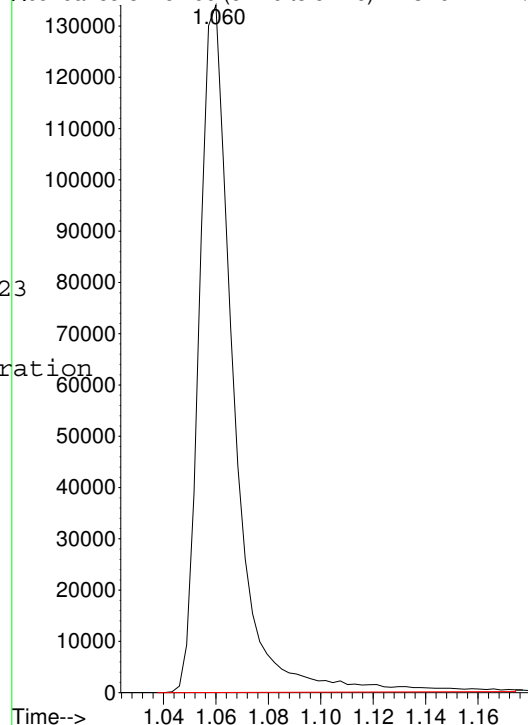
Manual Int. Results

Fri Feb 10 07:41:41 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.06
Area : 122575
Amount: 16.4312

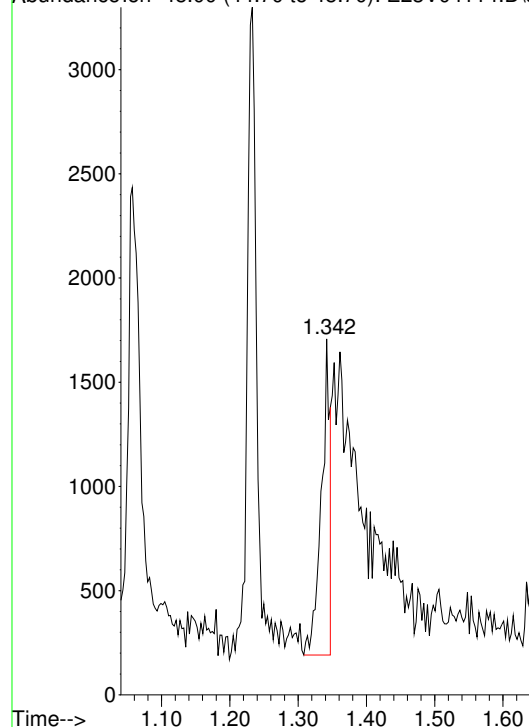
Manual Integration
VINYL CHLORIDE

Abundance on 62.00 (61.70 to 62.70): E23V04114.D



Original Integration
Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V04114.D



Original Int. Results

RT : 1.34
Area : 1340
Amount: -2.69892

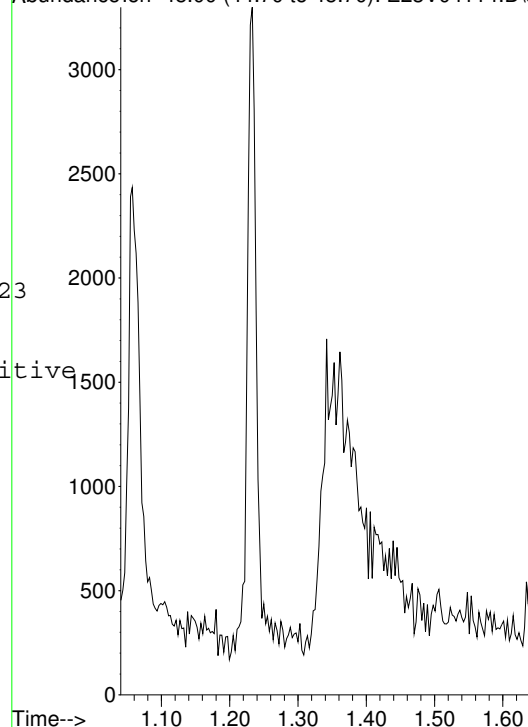
Manual Int. Results

Fri Feb 10 07:41:46 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V04114.D



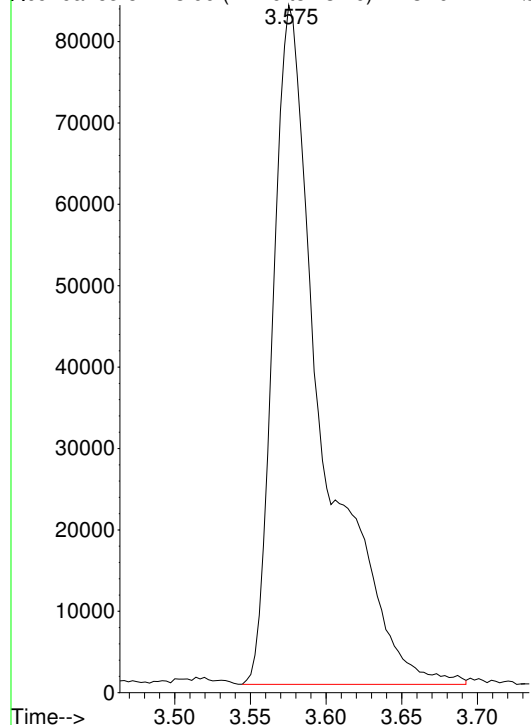
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04114.D
Acq On : 9 Feb 2023 1:48 pm
Operator :
Sample : 8260STD 50PPB 2301704
Misc : 1

Quant Time : Fri Feb 10 07:42:30 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

ETHYL ACETATE

Abundance on 43.00 (42.70 to 43.70): E23V04114.D



Original Int. Results

RT : 3.58
Area : 188570
Amount: 71.5195

Manual Int. Results

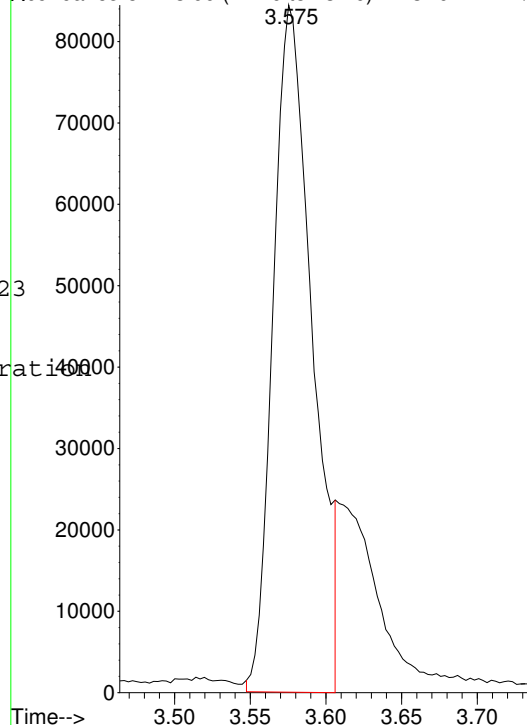
Fri Feb 10 07:42:02 2023

MIuser: EEH
Reason: Incoret Integrati
RT : 3.58
Area : 152287
Amount: 57.7584

Manual Integration

ETHYL ACETATE

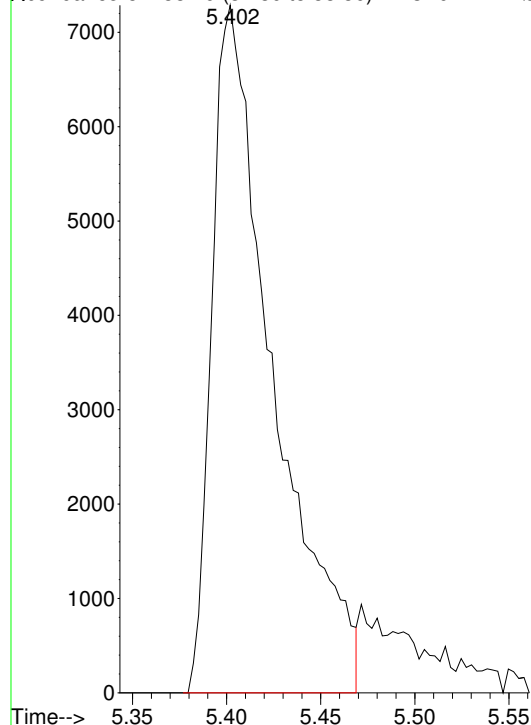
Abundance on 43.00 (42.70 to 43.70): E23V04114.D



Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V04114.D



Original Int. Results

RT : 5.40
Area : 16402
Amount: 433.699

Manual Int. Results

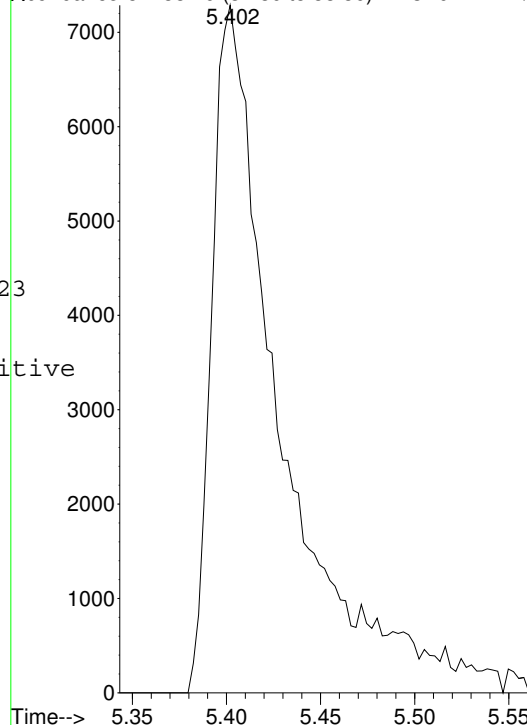
Fri Feb 10 07:42:13 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 5.40
Area : 18621
Amount: 492.373

Manual Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V04114.D



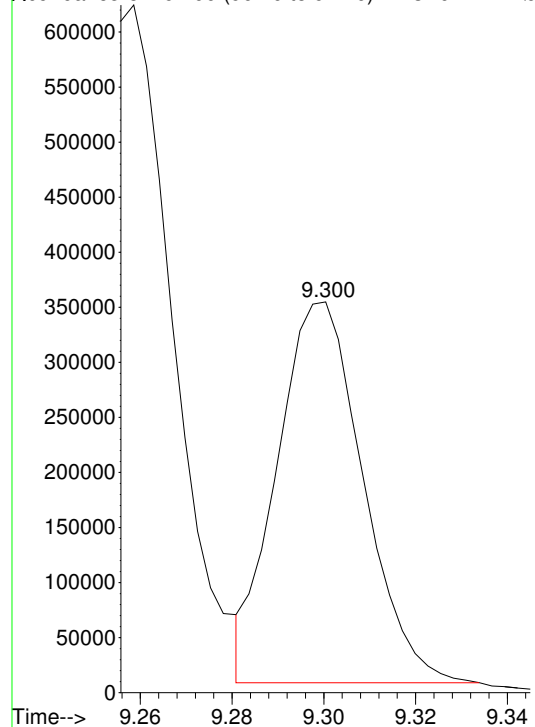
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04114.D
Acq On : 9 Feb 2023 1:48 pm
Operator :
Sample : 8260STD 50PPB 2301704
Misc : 1

Quant Time : Fri Feb 10 07:42:30 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04114.D



Original Int. Results

RT : 9.30
Area : 450376
Amount: 46.1383

Manual Int. Results

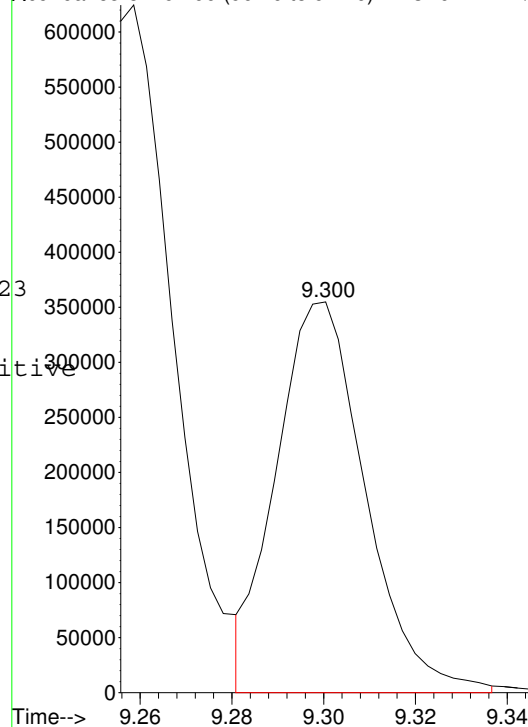
Fri Feb 10 07:42:30 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 9.30
Area : 480260
Amount: 49.1997

Manual Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04114.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04115.D
 Acq On : 9 Feb 2023 2:16 pm
 Operator :
 Sample : 8260STD 100PPB 2301705
 Misc : 1
 ALS Vial : 15 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:43:52 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.099	168	341206	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.869	114	514913	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.752	82	256835	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.022	152	219868	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	134866	23.51	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	94.04%		
50) TOLUENE SS	6.486	98	490036	24.47	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	97.88%		
72) 4-BROMOFLUOROBENZENE SS	8.865	95	175165	22.55	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	90.20%		
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.915	85	431715	82.54	UG/L	100
4) DIFLUOROCHLOROMETHANE	0.887	51	462172	96.89	UG/L	93
5) CHLOROMETHANE	0.987	50	466705	116.46	UG/L	99
6) VINYL CHLORIDE	1.057	62	204025	27.29	UG/L	98
7) BROMOMETHANE	1.227	94	257831	68.07	UG/L	99
8) CHLOROETHANE	1.294	64	181587	63.73	UG/L	99
10) FLUORODICHLOROMETHANE	1.327	67	603331	70.79	UG/L	100
11) TRICHLOROFLUOROMETHANE	1.570	101	485461	65.27	UG/L	99
12) DI ETHYL ETHER	1.729	59	224899	79.45	UG/L	96
13) ACROLEIN	1.584	56	716205	774.25	UG/L	100
14) ACETONE	1.665	43	792287	578.68	UG/L	91
15) 1,1-DICHLOROETHENE	1.871	61	445252	77.02	UG/L	97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.016	101	333780	87.21	UG/L	97
17) IODOMETHANE	1.882	142	4722913	848.47	UG/L	90
19) METHYL ACETATE	2.052	43	365086	84.72	UG/L	99
20) T-BUTYL ALCOHOL	1.949	59	268860	992.37	UG/L #	90
21) ACRYLONITRILE	1.946	53	125638	98.38	UG/L	97
22) METHYLENE CHLORIDE	1.983	49	317000	78.25	UG/L	94
23) CARBON DISULFIDE	2.075	76	9182158	938.62	UG/L #	77
24) METHYL TERT-BUTYL ETHE...	2.605	73	841747	105.30	UG/L	95
25) TRANS 1,2-DICHLOROETHENE	2.465	61	458507	103.58	UG/L	94
26) 1,1-DICHLOROETHANE	2.680	63	572326	105.58	UG/L	98
28) VINYL ACETATE	2.900	43	6181885	1181.23	UG/L	98
30) DI ISOPROYL ETHER	3.221	45	993226	117.83	UG/L	90
31) 2-BUTANONE	3.176	43	1539976	1237.30	UG/L	97
33) T-BUTYL ETHYL ETHER	3.620	59	929655	112.03	UG/L	96
34) CIS-1,2-DICHLOROETHENE	3.252	61	442447	107.63	UG/L	94
35) 2,2-DICHLOROPROPANE	3.517	77	409798	97.25	UG/L	98
36) ETHYL ACETATE	3.575	43	300667	113.78	UG/L	97
37) BROMOCHLOROMETHANE	3.397	49	206554	85.61	UG/L #	80
38) TETRAHYDROFURAN	3.804	42	96948	121.51	UG/L	89
40) CHLOROFORM	3.469	83	575530	90.38	UG/L	99
42) 1,1,1-TRICHLOROETHANE	4.166	97	462854	94.46	UG/L	99
43) CYCLOHEXANE	4.403	56	615044	118.59	UG/L	90
44) CARBON TETRACHLORIDE	4.498	117	425385	105.08	UG/L	99
45) 1,1-DICHLOROPROPENE	4.367	75	462884	106.63	UG/L	96
46) BENZENE	4.557	78	1312222	102.62	UG/L	99
48) T-AMYL METHYL ETHER	4.808	73	881526	113.73	UG/L #	93
51) 1,2-DICHLOROETHANE	4.097	62	372449	75.44	UG/L #	89
53) TRICHLOROETHENE	5.184	95	352453	96.66	UG/L	96
54) METHYLCYCLOHEXANE	5.622	83	579029	106.10	UG/L	95
55) 1,2-DICHLOROPROPANE	5.137	63	349993	106.63	UG/L #	92
56) DIBROMOMETHANE	5.089	93	208761	96.40	UG/L	98

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04115.D
 Acq On : 9 Feb 2023 2:16 pm
 Operator :
 Sample : 8260STD 100PPB 2301705
 Misc : 1
 ALS Vial : 15 Sample Multiplier: 1

Inst : GCMSVOA5

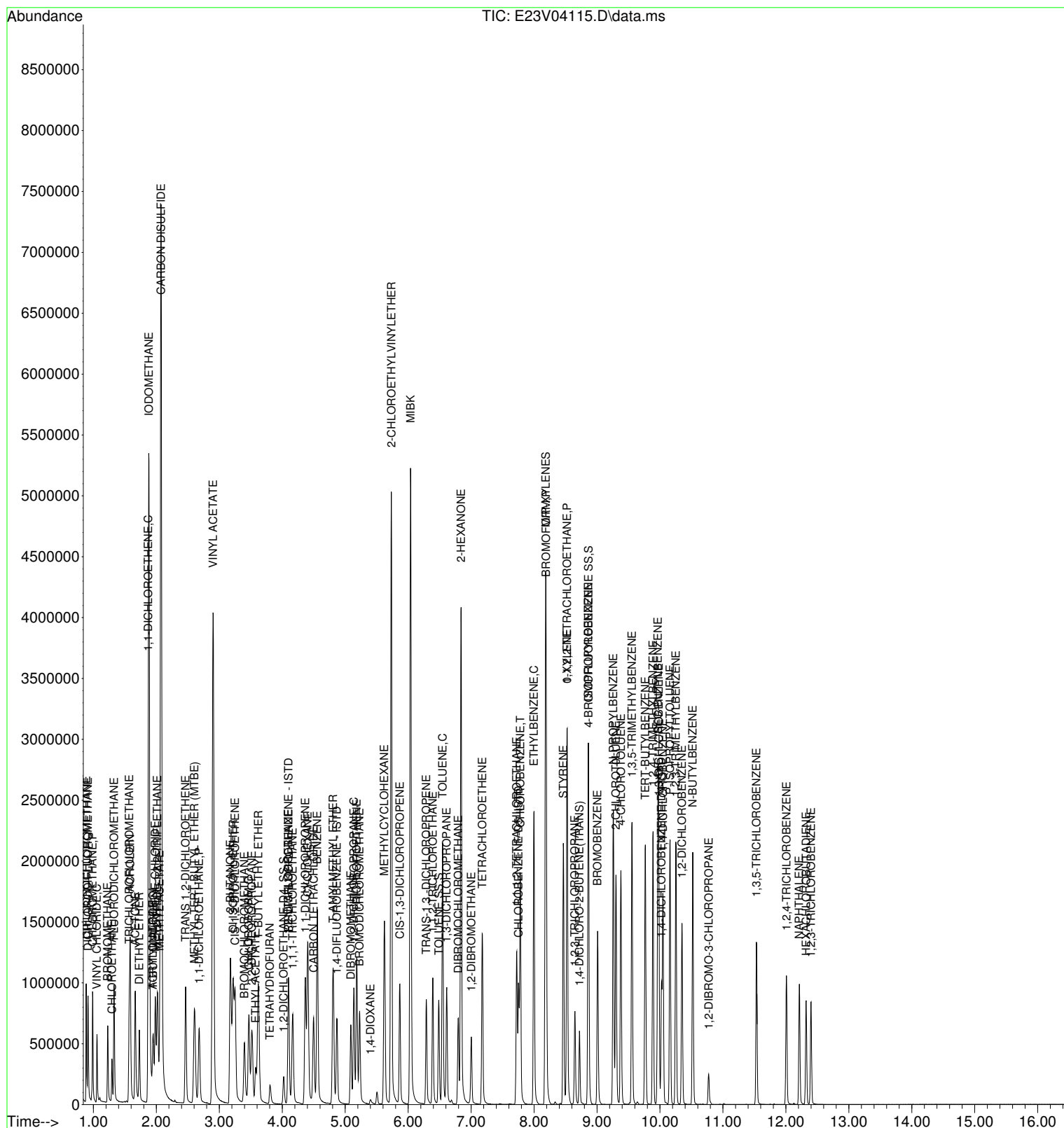
Quant Time: Feb 10 07:43:52 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
57) 1,4-DIOXANE	5.402	88	36288m	958.94	UG/L	
58) BROMODICHLOROMETHANE	5.229	83	420960	97.95	UG/L	99
59) 2-CHLOROETHYL VINYLETHER	5.733	63	2024866	1330.18	UG/L	99
60) MIBK	6.037	43	3080103	1107.70	UG/L	98
61) CIS-1,3-DICHLOROPROPENE	5.867	75	513887	111.98	UG/L	96
62) TOLUENE	6.548	91	1376197	97.86	UG/L	100
63) TRANS-1,3,-DICHLOROPRO...	6.288	75	413692	112.90	UG/L	98
65) 1,1,2-TRICHLOROETHANE	6.392	97	291456	99.95	UG/L	96
66) 2-HEXANONE	6.841	43	2215366	1145.60	UG/L	94
67) TETRACHLOROETHENE	7.178	166	372815	92.75	UG/L	99
68) 1,3-DICHLOROPROPANE	6.612	76	502227	103.38	UG/L	99
69) DIBROMOCHLOROMETHANE	6.796	129	338576	104.49	UG/L	100
70) 1,2-DIBROMOETHANE	7.002	107	314468	100.56	UG/L	99
73) CHLOROBENZENE	7.780	112	881774	95.52	UG/L	97
74) 1,1,1,2-TETRACHLOROETHANE	7.725	131	320643	100.96	UG/L	99
75) ETHYLBENZENE	7.998	91	1511387	100.40	UG/L	99
76) M/P-XYLENES	8.185	91	2338105	195.11	UG/L	100
77) O-XYLENE	8.522	91	1138702	97.54	UG/L	99
78) STYRENE	8.464	104	905909	105.21	UG/L	99
79) BROMOFORM	8.190	173	233301	94.16	UG/L	100
80) ISOPROPYLBENZENE	8.860	105	1416687	93.64	UG/L	100
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	387239	100.61	UG/L	100
83) 1,4-DICHLORO-2-BUTENE (...)	8.720	53	93668	105.74	UG/L	90
84) BROMOBENZENE	9.007	77	525619	99.16	UG/L	91
85) 1,2,3-TRICHLOROPROPANE	8.648	75	293217	102.19	UG/L	94
86) N-PROPYLBENZENE	9.258	91	1681688	100.43	UG/L	99
87) 2-CHLOROTOLUENE	9.300	91	944655m	94.65	UG/L	
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	1101977	99.09	UG/L	99
89) 4-CHLOROTOLUENE	9.378	91	964612	96.78	UG/L	98
91) TERT-BUTYLBENZENE	9.766	119	931909	112.83	UG/L	99
92) 1,2,4-TRIMETHYLBENZENE	9.889	105	1046887	114.17	UG/L	97
93) SEC-BUTYLBENZENE	9.967	105	1286374	111.13	UG/L	99
94) 1,3-DICHLOROBENZENE	9.981	146	603833	104.80	UG/L	100
95) P-ISOPROPYLTOLUENE	10.159	119	1094757	114.64	UG/L	100
96) 1,4-DICHLOROBENZENE	10.047	146	603167	101.43	UG/L	98
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	1066289	114.87	UG/L	94
98) N-BUTYLBENZENE	10.519	91	989909	115.38	UG/L	97
99) 1,2-DICHLOROBENZENE	10.349	146	548654	109.35	UG/L	99
100) 1,2-DIBROMO-3-CHLOROPR...	10.773	75	51599	124.51	UG/L	99
101) 1,3,5-TRICHLOROBENZENE	11.531	180	383886	117.07	UG/L	99
102) 1,2,4-TRICHLOROBENZENE	12.008	180	304606	131.88	UG/L	96
103) HEXACHLOROBUTADIENE	12.320	225	162765	119.15	UG/L	92
104) NAPHTHALENE	12.211	128	694668	152.63	UG/L	98
105) 1,2,3-TRICHLOROBENZENE	12.398	180	243388	139.78	UG/L	100

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

250

Inst : GCMSVOA5



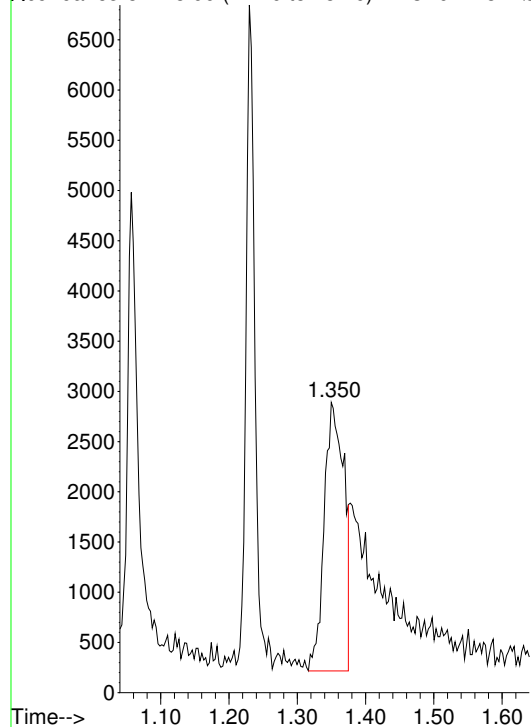
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04115.D
Acq On : 9 Feb 2023 2:16 pm
Operator :
Sample : 8260STD 100PPB 2301705
Misc : 1

Quant Time : Fri Feb 10 07:43:52 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

Ethanol

Abundancelon 45.00 (44.70 to 45.70): E23V04115.D\



Original Int. Results

RT : 1.35
Area : 5431
Amount: 76.554

Manual Int. Results

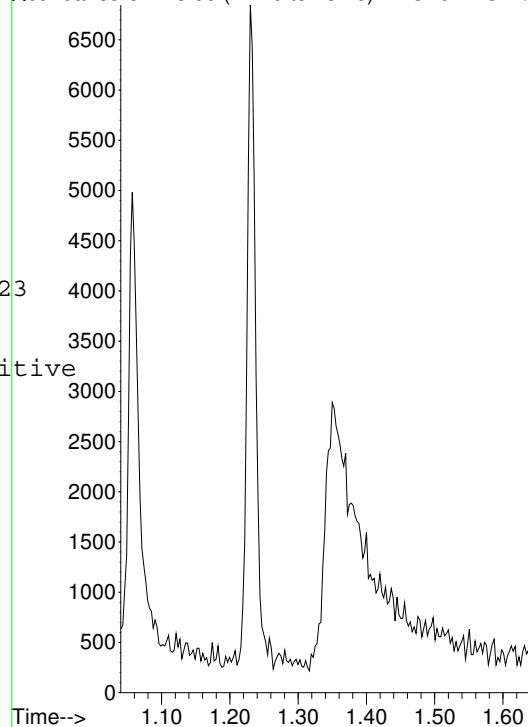
Fri Feb 10 07:42:58 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

Ethanol

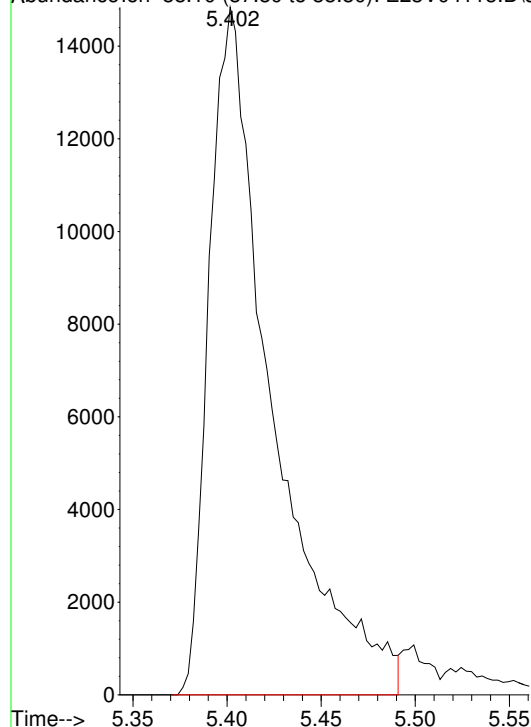
Abundancelon 45.00 (44.70 to 45.70): E23V04115.D\



Original Integration

1,4-DIOXANE

Abundancelon 88.10 (87.80 to 88.80): E23V04115.D\



Original Int. Results

RT : 5.40
Area : 34617
Amount: 914.778

Manual Int. Results

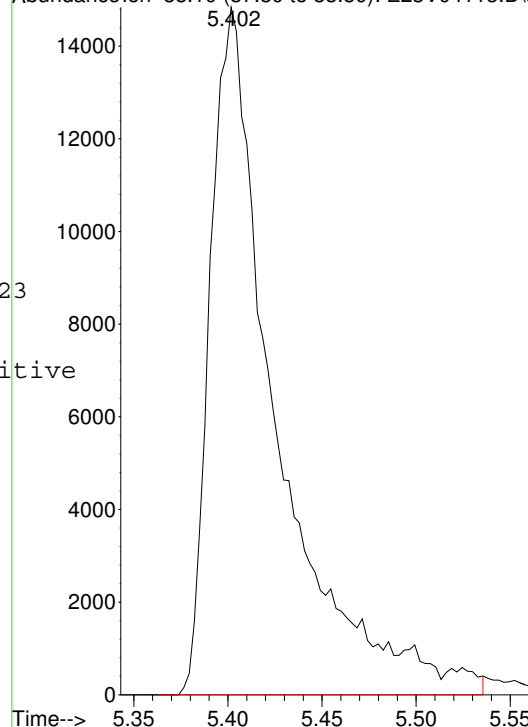
Fri Feb 10 07:43:23 2023

MIuser: EEH
Reason: Qdel False Positive
RT : 5.40
Area : 36288
Amount: 958.936

Manual Integration

1,4-DIOXANE

Abundancelon 88.10 (87.80 to 88.80): E23V04115.D\



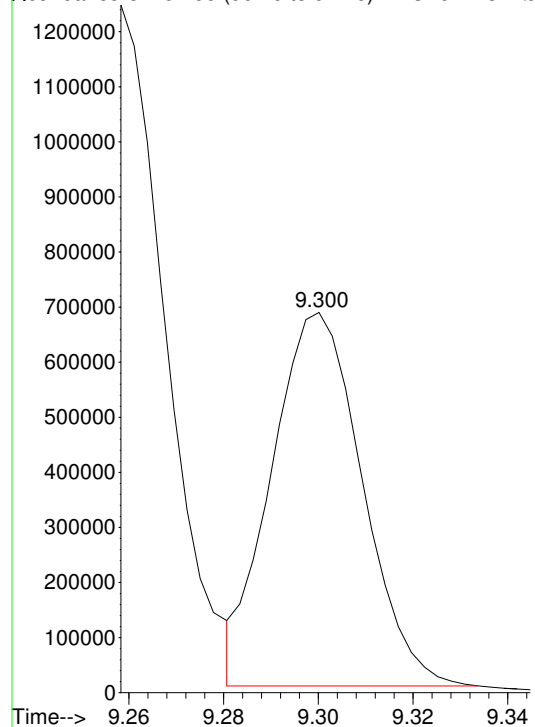
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04115.D
Acq On : 9 Feb 2023 2:16 pm
Operator :
Sample : 8260STD 100PPB 2301705
Misc : 1

Quant Time : Fri Feb 10 07:43:52 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04115.D



Original Int. Results

RT : 9.30
Area : 902953
Amount: 90.4693

Manual Int. Results

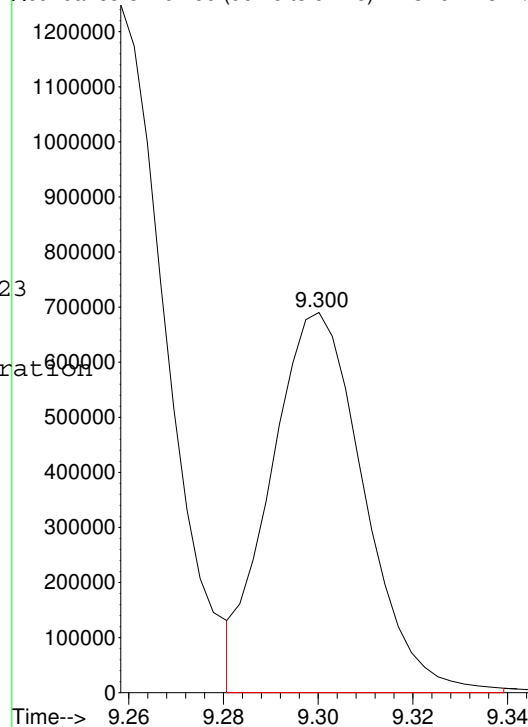
Fri Feb 10 07:43:52 2023

MIuser: EEH
Reason: Incoret Integration
RT : 9.30
Area : 944655
Amount: 94.6476

Manual Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04115.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04116.D
 Acq On : 9 Feb 2023 2:44 pm
 Operator :
 Sample : 8260STD 200PPB 2301706
 Misc : 1
 ALS Vial : 16 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:45:14 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.099	168	336010	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	501595	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	266053	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.025	152	210140	30.00	UG/L	# 0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	132433	23.45	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	93.80%		
50) TOLUENE SS	6.487	98	478350	24.52	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	98.08%		
72) 4-BROMOFLUOROBENZENE SS	8.865	95	173118	21.51	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	86.04%		
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.915	85	854032	165.81	UG/L	100
4) DIFLUOROCHLOROMETHANE	0.884	51	928101	197.58	UG/L	93
5) CHLOROMETHANE	0.987	50	1166971	295.71	UG/L	99
6) VINYL CHLORIDE	1.057	62	351298	47.71	UG/L	100
7) BROMOMETHANE	1.227	94	589275	157.98	UG/L	100
8) CHLOROETHANE	1.294	64	338412	120.61	UG/L	97
10) FLUORODICHLOROMETHANE	1.328	67	1176754	140.21	UG/L	100
11) TRICHLOROFLUOROMETHANE	1.570	101	906842	123.81	UG/L	99
12) DI ETHYL ETHER	1.729	59	449068	161.09	UG/L	97
13) ACROLEIN	1.587	56	1437384	1577.91	UG/L	98
14) ACETONE	1.665	43	1535153	1138.60	UG/L	90
15) 1,1-DICHLOROETHENE	1.869	61	831746	146.10	UG/L	98
16) 1,1,2-TRICL-1,2,2-TRIF...	2.016	101	663960	176.17	UG/L	97
17) IODOMETHANE	1.883	142	8231496	1501.66	UG/L	93
19) METHYL ACETATE	2.053	43	725067	170.85	UG/L	99
20) T-BUTYL ALCOHOL	1.952	59	546351	2047.79	UG/L	# 85
21) ACRYLONITRILE	1.949	53	253693	201.73	UG/L	97
22) METHYLENE CHLORIDE	1.983	49	565205	141.68	UG/L	92
23) CARBON DISULFIDE	2.072	76	15519105	1610.93	UG/L	# 78
24) METHYL TERT-BUTYL ETHE...	2.605	73	1739076	220.92	UG/L	95
25) TRANS 1,2-DICHLOROETHENE	2.463	61	905612	207.75	UG/L	95
26) 1,1-DICHLOROETHANE	2.680	63	1124582	210.67	UG/L	98
28) VINYL ACETATE	2.906	43	11945731	2317.87	UG/L	99
30) DI ISOPROYL ETHER	3.221	45	1951796	235.13	UG/L	91
31) 2-BUTANONE	3.179	43	3017461	2461.88	UG/L	98
33) T-BUTYL ETHYL ETHER	3.620	59	1868224	228.61	UG/L	96
34) CIS-1,2-DICHLOROETHENE	3.252	61	862823	213.14	UG/L	95
35) 2,2-DICHLOROPROPANE	3.519	77	802674	193.43	UG/L	98
36) ETHYL ACETATE	3.575	43	602548	231.55	UG/L	97
37) BROMOCHLOROMETHANE	3.400	49	318518	134.06	UG/L	# 82
38) TETRAHYDROFURAN	3.804	42	194353	247.35	UG/L	91
40) CHLOROFORM	3.469	83	1128693	180.00	UG/L	100
42) 1,1,1-TRICHLOROETHANE	4.164	97	927685	192.25	UG/L	100
43) CYCLOHEXANE	4.406	56	1216825	238.26	UG/L	90
44) CARBON TETRACHLORIDE	4.495	117	846620	212.37	UG/L	99
45) 1,1-DICHLOROPROPENE	4.364	75	919134	215.01	UG/L	96
46) BENZENE	4.557	78	2592768	205.91	UG/L	98
48) T-AMYL METHYL ETHER	4.808	73	1808792	236.97	UG/L	# 94
51) 1,2-DICHLOROETHANE	4.097	62	750281	156.01	UG/L	# 91
53) TRICHLOROETHENE	5.181	95	695480	195.81	UG/L	96
54) METHYLCYCLOHEXANE	5.622	83	1157546	217.73	UG/L	95
55) 1,2-DICHLOROPROPANE	5.137	63	693133	216.78	UG/L	# 91
56) DIBROMOMETHANE	5.089	93	416669	197.52	UG/L	99

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04116.D
 Acq On : 9 Feb 2023 2:44 pm
 Operator :
 Sample : 8260STD 200PPB 2301706
 Misc : 1
 ALS Vial : 16 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:45:14 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
57) 1,4-DIOXANE	5.402	88	72722m	1972.75	UG/L	
58) BROMODICHLOROMETHANE	5.229	83	858967	205.17	UG/L	99
59) 2-CHLOROETHYL VINYLETHER	5.739	63	4008442	2703.16	UG/L	98
60) MIBK	6.043	43	5875937	2169.27	UG/L	98
61) CIS-1,3-DICHLOROPROPENE	5.867	75	1035589	231.66	UG/L	97
62) TOLUENE	6.548	91	2696586	196.84	UG/L	99
63) TRANS-1,3,-DICHLOROPRO...	6.289	75	855974	239.80	UG/L	98
65) 1,1,2-TRICHLOROETHANE	6.392	97	585558	206.13	UG/L	96
66) 2-HEXANONE	6.843	43	4369421	2319.48	UG/L	93
67) TETRACHLOROETHENE	7.178	166	748431	191.15	UG/L	99
68) 1,3-DICHLOROPROPANE	6.612	76	1002452	211.84	UG/L	99
69) DIBROMOCHLOROMETHANE	6.796	129	699639	221.66	UG/L	100
70) 1,2-DIBROMOETHANE	7.005	107	634022	208.13	UG/L	99
73) CHLOROBENZENE	7.780	112	1769809	185.08	UG/L	97
74) 1,1,1,2-TETRACHLOROETHANE	7.725	131	653247	198.56	UG/L	99
75) ETHYLBENZENE	7.998	91	2971948	190.58	UG/L	99
76) M/P-XYLENES	8.188	91	4594878	370.14	UG/L	99
77) O-XYLENE	8.525	91	2238558	185.11	UG/L	100
78) STYRENE	8.466	104	1823715	204.46	UG/L	99
79) BROMOFORM	8.190	173	487185	189.81	UG/L	99
80) ISOPROPYLBENZENE	8.862	105	2823397	180.16	UG/L	100
82) 1,1,2,2-TETRACHLOROETHANE	8.528	83	787014	197.38	UG/L	100
83) 1,4-DICHLORO-2-BUTENE (...)	8.720	53	197301	215.02	UG/L	92
84) BROMOBENZENE	9.010	77	1056826	192.47	UG/L	92
85) 1,2,3-TRICHLOROPROPANE	8.648	75	600547	202.04	UG/L	94
86) N-PROPYLBENZENE	9.258	91	3347020	192.96	UG/L	100
87) 2-CHLOROTOLUENE	9.300	91	1886911m	182.50	UG/L	
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	2238737	194.33	UG/L	99
89) 4-CHLOROTOLUENE	9.378	91	1927773	186.71	UG/L	99
91) TERT-BUTYLBENZENE	9.766	119	1891468	239.61	UG/L	100
92) 1,2,4-TRIMETHYLBENZENE	9.889	105	2100682	239.71	UG/L	96
93) SEC-BUTYLBENZENE	9.967	105	2611252	236.02	UG/L	98
94) 1,3-DICHLOROBENZENE	9.981	146	1216691	220.95	UG/L	100
95) P-ISOPROPYLTOLUENE	10.159	119	2223844	243.65	UG/L	99
96) 1,4-DICHLOROBENZENE	10.048	146	1227936	216.06	UG/L	98
97) 1,2,3-TRIMETHYLBENZENE	10.254	105	2152291	242.59	UG/L	94
98) N-BUTYLBENZENE	10.522	91	2017775	246.08	UG/L	96
99) 1,2-DICHLOROBENZENE	10.349	146	1115704	232.66	UG/L	99
100) 1,2-DIBROMO-3-CHLOROPR...	10.770	75	110767	279.66	UG/L	98
101) 1,3,5-TRICHLOROBENZENE	11.534	180	800667	255.48	UG/L	99
102) 1,2,4-TRICHLOROBENZENE	12.008	180	639858	289.86	UG/L	96
103) HEXACHLOROBUTADIENE	12.320	225	331404	253.83	UG/L	91
104) NAPHTHALENE	12.212	128	1441170	331.31	UG/L	98
105) 1,2,3-TRICHLOROBENZENE	12.398	180	501121	301.13	UG/L	99

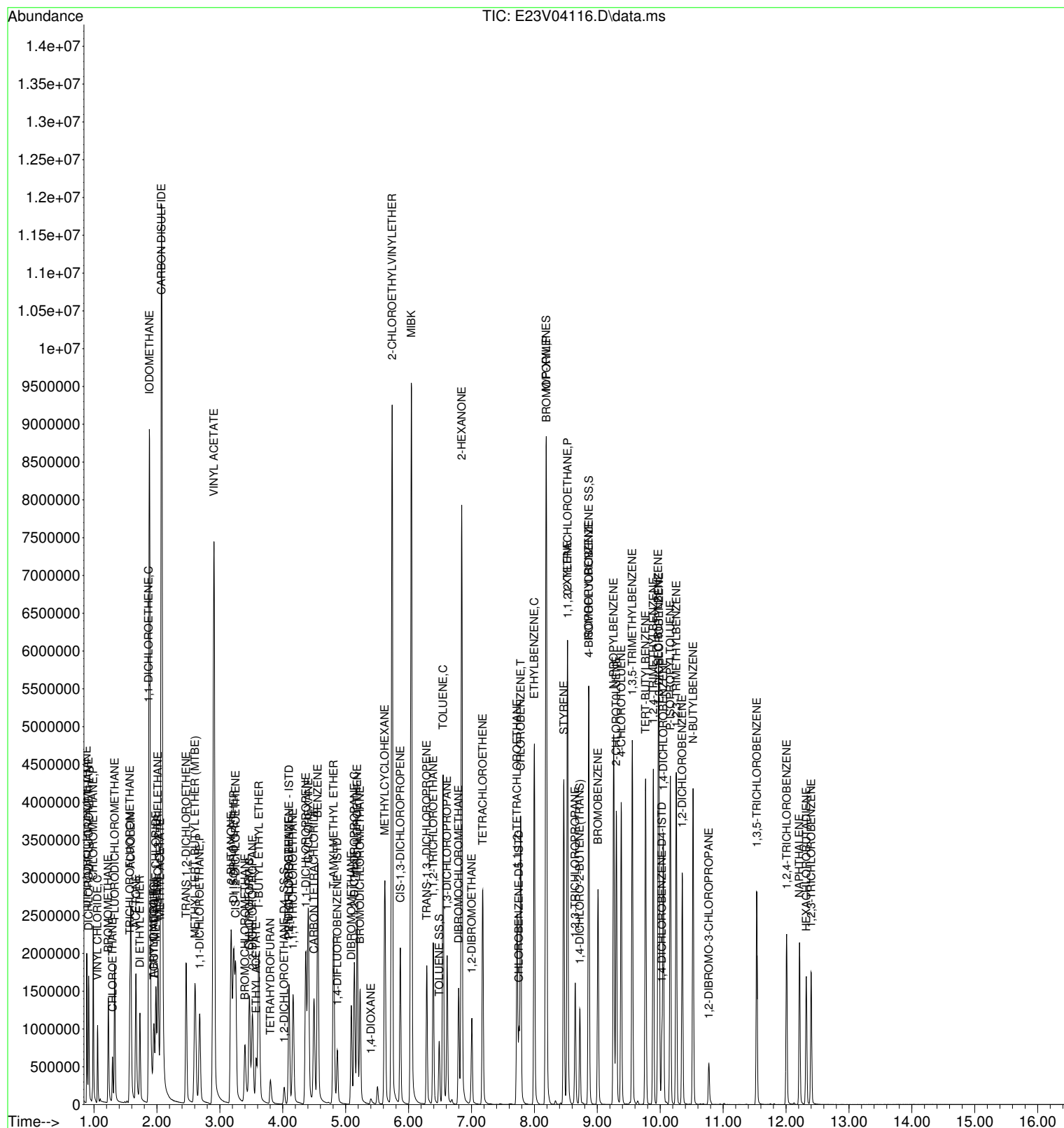
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04116.D
 Acq On : 9 Feb 2023 2:44 pm
 Operator :
 Sample : 8260STD 200PPB 2301706
 Misc : 1
 ALS Vial : 16 Sample Multiplier: 1

255

Inst : GCMSVOA5

Quant Time: Feb 10 07:45:14 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration



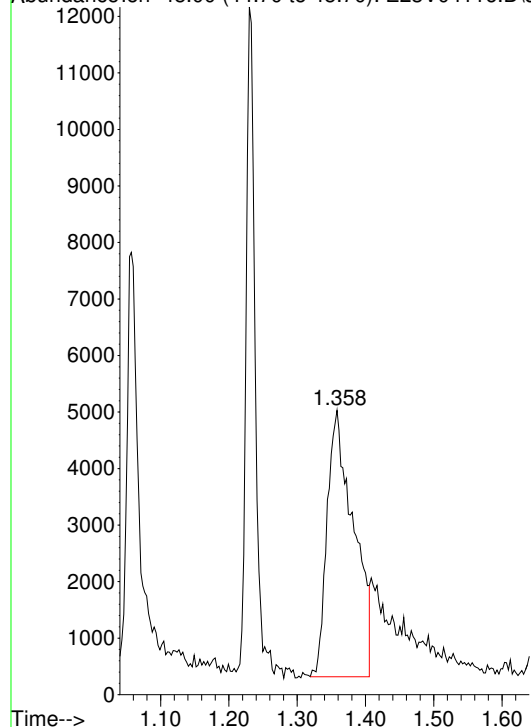
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Data File : E23V04116.D
Acq On : 9 Feb 2023 2:44 pm
Operator :
Sample : 8260STD 200PPB 2301706
Misc : 1

Quant Time : Fri Feb 10 07:45:14 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

Ethanol

Abundancelon 45.00 (44.70 to 45.70): E23V04116.D\



Original Int. Results

RT : 1.36
Area : 12757
Amount: 222.406

Manual Int. Results

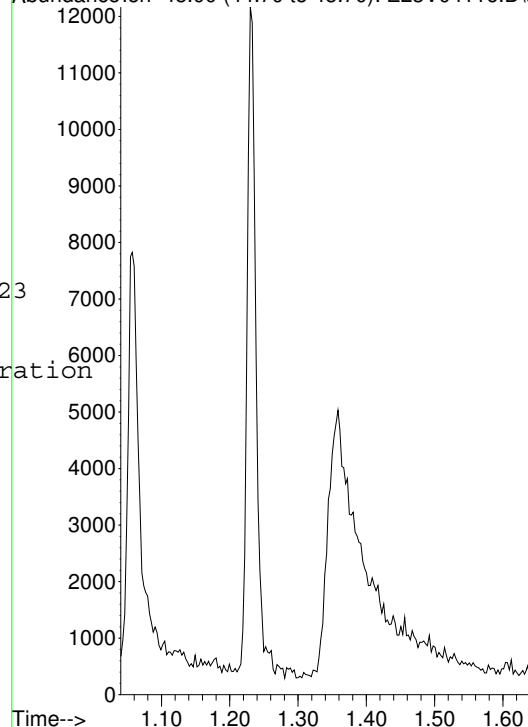
Fri Feb 10 07:44:18 2023

MIuser: EEH
Reason: Incoret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

Ethanol

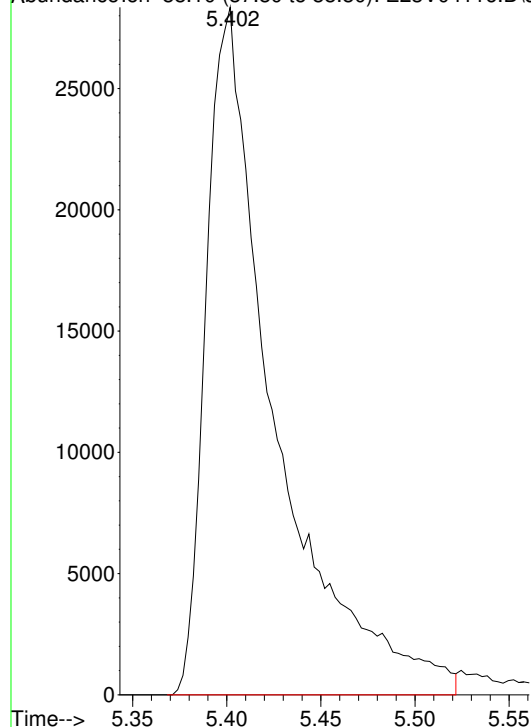
Abundancelon 45.00 (44.70 to 45.70): E23V04116.D\



Original Integration

1,4-DIOXANE

Abundancelon 88.10 (87.80 to 88.80): E23V04116.D\



Original Int. Results

RT : 5.40
Area : 71680
Amount: 1944.49

Manual Int. Results

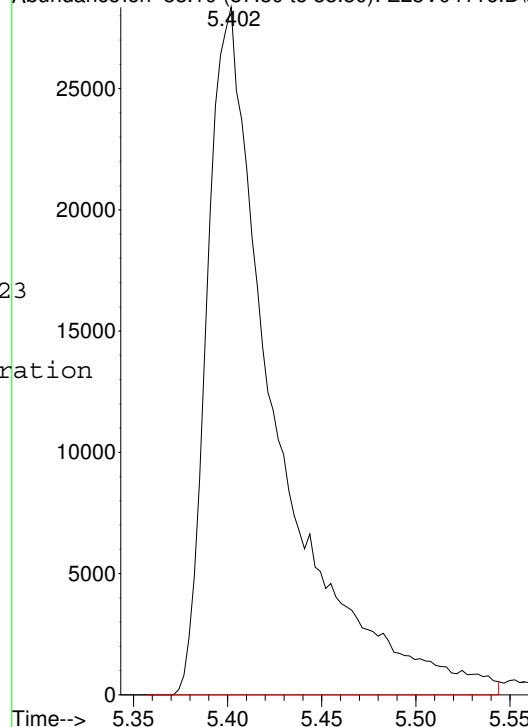
Fri Feb 10 07:44:49 2023

MIuser: EEH
Reason: Incoret Integration
RT : 5.40
Area : 72722
Amount: 1972.75

Manual Integration

1,4-DIOXANE

Abundancelon 88.10 (87.80 to 88.80): E23V04116.D\



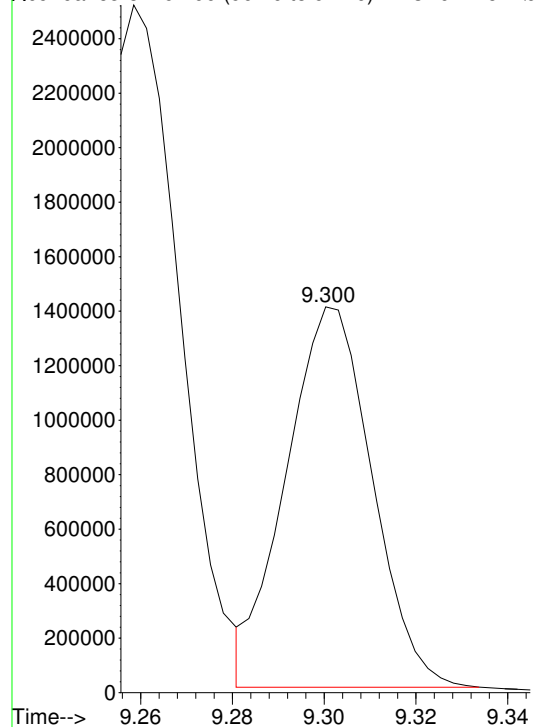
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04116.D
Acq On : 9 Feb 2023 2:44 pm
Operator :
Sample : 8260STD 200PPB 2301706
Misc : 1

Quant Time : Fri Feb 10 07:45:14 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04116.D



Original Int. Results

RT : 9.30
Area : 1.82051e+006
Amount: 176.082

Manual Int. Results

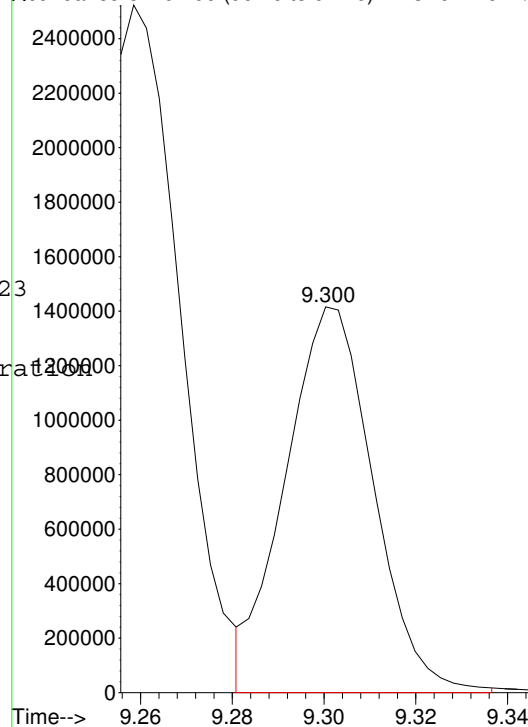
Fri Feb 10 07:45:14 2023

MIuser: EEH
Reason: Incoret Integrat
RT : 9.30
Area : 1.88691e+006
Amount: 182.505

Manual Integration

2-CHLOROTOLUENE

Abundance on 91.00 (90.70 to 91.70): E23V04116.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04117.D
 Acq On : 9 Feb 2023 3:12 pm
 Operator :
 Sample : ETOH500PPB
 Misc : 1
 ALS Vial : 17 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:45:40 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.099	168	358691	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	534328	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	250293	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	218314	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	149313	24.76	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	99.04%		
50) TOLUENE SS	6.487	98	512471	24.66	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	98.64%		
72) 4-BROMOFLUOROBENZENE SS	8.862	95	179494	23.71	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	94.84%		
Target Compounds						
					Qvalue	
5) CHLOROMETHANE	0.990	50	10421	2.47	UG/L	96
7) BROMOMETHANE	1.233	94	7063	1.77	UG/L	93
9) Ethanol	1.336	45	20335m	346.28	UG/L	
13) ACROLEIN	1.584	56	2712	2.79	UG/L #	83
14) ACETONE	1.668	43	2602	1.81	UG/L	95
17) IODOMETHANE	1.885	142	27484	4.70	UG/L	88
19) METHYL ACETATE	2.053	43	1750	0.39	UG/L #	56
21) ACRYLONITRILE	1.947	53	503	0.37	UG/L #	7
22) METHYLENE CHLORIDE	1.988	49	761	0.18	UG/L #	66
23) CARBON DISULFIDE	2.072	76	42606	4.14	UG/L #	79
25) TRANS 1,2-DICHLOROETHENE	2.471	61	934	0.20	UG/L #	17
28) VINYL ACETATE	2.906	43	5676	1.03	UG/L #	72
31) 2-BUTANONE	3.196	43	2336	1.79	UG/L #	53
34) CIS-1,2-DICHLOROETHENE	3.249	61	602	0.14	UG/L #	13
36) ETHYL ACETATE	3.589	43	1256	0.45	UG/L #	66
37) BROMOCHLOROMETHANE	3.411	49	543	0.21	UG/L #	2
40) CHLOROFORM	3.472	83	548	0.08	UG/L #	18
43) CYCLOHEXANE	4.406	56	797	0.15	UG/L #	57
46) BENZENE	4.554	78	2407	0.18	UG/L #	83
48) T-AMYL METHYL ETHER	4.869	73	5566	0.68	UG/L #	43
51) 1,2-DICHLOROETHANE	4.099	62	1380	0.27	UG/L #	1
54) METHYLCYCLOHEXANE	5.619	83	1835	0.32	UG/L	95
56) DIBROMOMETHANE	5.089	93	652	0.29	UG/L #	37
59) 2-CHLOROETHYL VINYLETHER	5.728	63	1656	1.05	UG/L	91
60) MIBK	6.043	43	5118	1.77	UG/L #	91
62) TOLUENE	6.548	91	1676	0.11	UG/L	95
63) TRANS-1,3,-DICHLOROPRO...	6.291	75	682	0.18	UG/L #	48
65) 1,1,2-TRICHLOROETHANE	6.492	97	7130	2.36	UG/L #	14
66) 2-HEXANONE	6.843	43	5499	2.74	UG/L	100
67) TETRACHLOROETHENE	7.175	166	640	0.15	UG/L #	20
73) CHLOROBENZENE	7.780	112	1605	0.18	UG/L #	1
75) ETHYLBENZENE	8.001	91	2716	0.19	UG/L	100
76) M/P-XYLENES	8.188	91	5094	0.44	UG/L	93
77) O-XYLENE	8.522	91	2719	0.24	UG/L	95
78) STYRENE	8.469	104	2135	0.25	UG/L	97
80) ISOPROPYLBENZENE	8.860	105	6114	0.41	UG/L	95
82) 1,1,2,2-TETRACHLOROETHANE	8.528	83	2693	0.72	UG/L #	96
84) BROMOBENZENE	9.013	77	2050	0.40	UG/L	86
85) 1,2,3-TRICHLOROPROPANE	8.648	75	1424	0.51	UG/L #	36
86) N-PROPYLBENZENE	9.256	91	9055	0.55	UG/L	99
87) 2-CHLOROTOLUENE	9.300	91	4839	0.50	UG/L	95
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	8008	0.74	UG/L	100
89) 4-CHLOROTOLUENE	9.376	91	5402	0.56	UG/L	97

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04117.D
 Acq On : 9 Feb 2023 3:12 pm
 Operator :
 Sample : ETOH500PPB
 Misc : 1
 ALS Vial : 17 Sample Multiplier: 1

Inst : GCMSVOA5

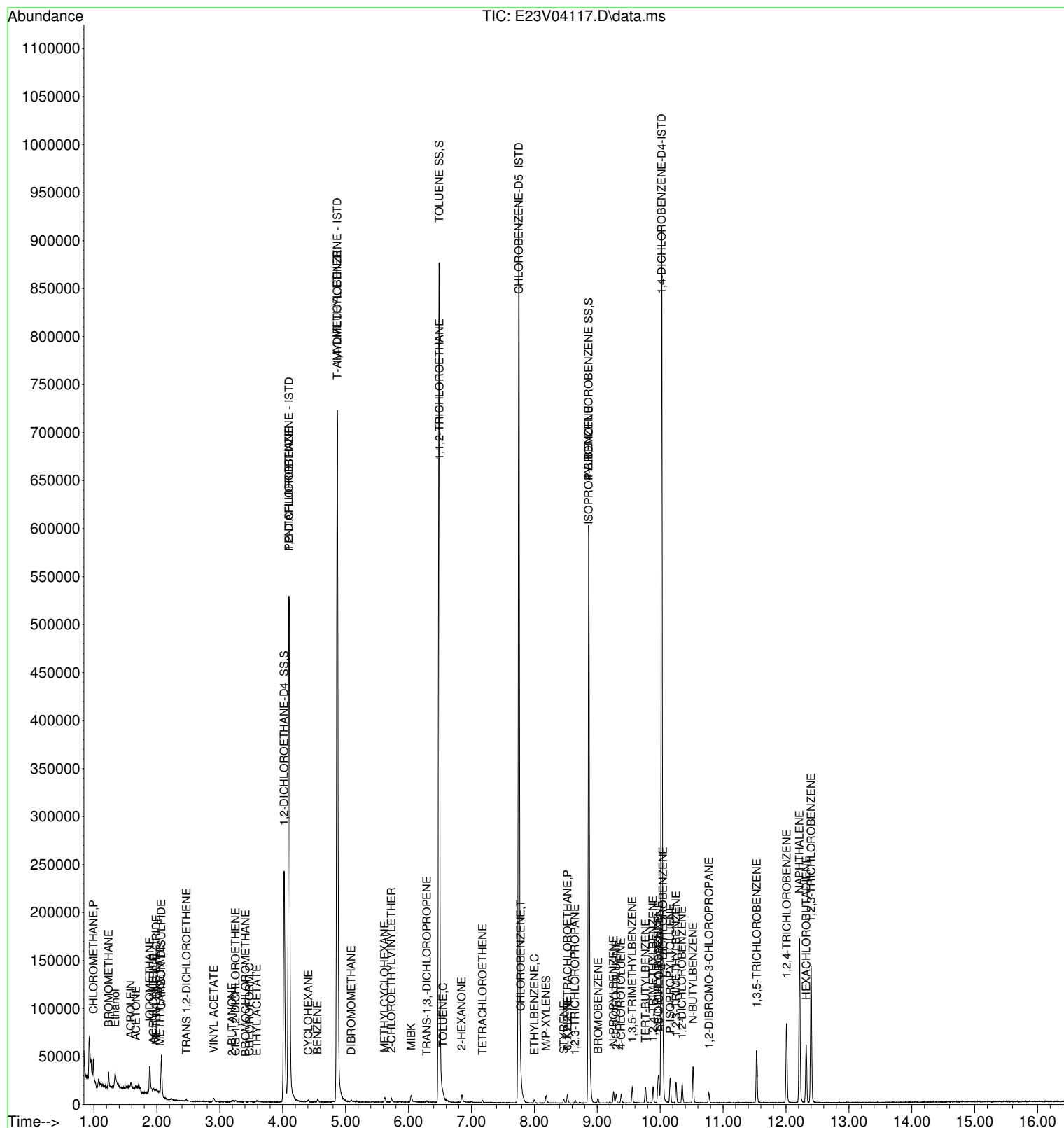
Quant Time: Feb 10 07:45:40 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
91)	TERT-BUTYLBENZENE	9.766	119	7650	0.93	UG/L	98
92)	1,2,4-TRIMETHYLBENZENE	9.886	105	8345	0.92	UG/L	99
93)	SEC-BUTYLBENZENE	9.967	105	14523	1.26	UG/L	100
94)	1,3-DICHLOROBENZENE	9.978	146	6634	1.16	UG/L	96
95)	P-ISOPROPYLTOLUENE	10.159	119	13706	1.45	UG/L	98
96)	1,4-DICHLOROBENZENE	10.045	146	6821	1.16	UG/L	95
97)	1,2,3-TRIMETHYLBENZENE	10.251	105	10661	1.16	UG/L	93
98)	N-BUTYLBENZENE	10.525	91	18882	2.22	UG/L	97
99)	1,2-DICHLOROBENZENE	10.346	146	8113	1.63	UG/L	98
100)	1,2-DIBROMO-3-CHLOROPR...	10.775	75	2252	5.47	UG/L	94
101)	1,3,5-TRICHLOROBENZENE	11.534	180	16357	5.02	UG/L	98
102)	1,2,4-TRICHLOROBENZENE	12.008	180	24959	10.88	UG/L	93
103)	HEXACHLOROBUTADIENE	12.320	225	12264	9.04	UG/L	97
104)	NAPHTHALENE	12.214	128	117600	26.02	UG/L	98
105)	1,2,3-TRICHLOROBENZENE	12.398	180	42629	24.66	UG/L	98

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

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Quant Time: Feb 10 07:45:40 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Wed Jan 11 13:11:09 2023
Response via : Initial Calibration



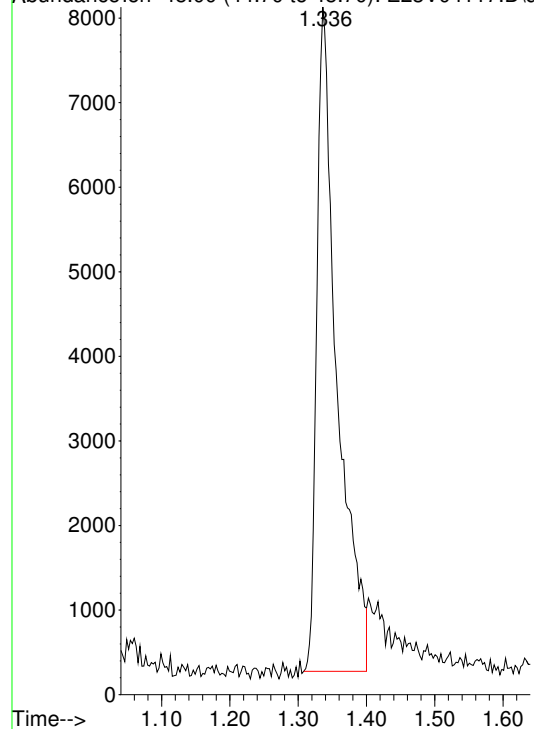
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Data File : E23V04117.D
Acq On : 9 Feb 2023 3:12 pm
Operator :
Sample : ETOH500PPB
Misc : 1

Quant Time : Fri Feb 10 07:45:40 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V04117.D



Original Int. Results

RT : 1.34
Area : 16276
Amount: 271.422

Manual Int. Results

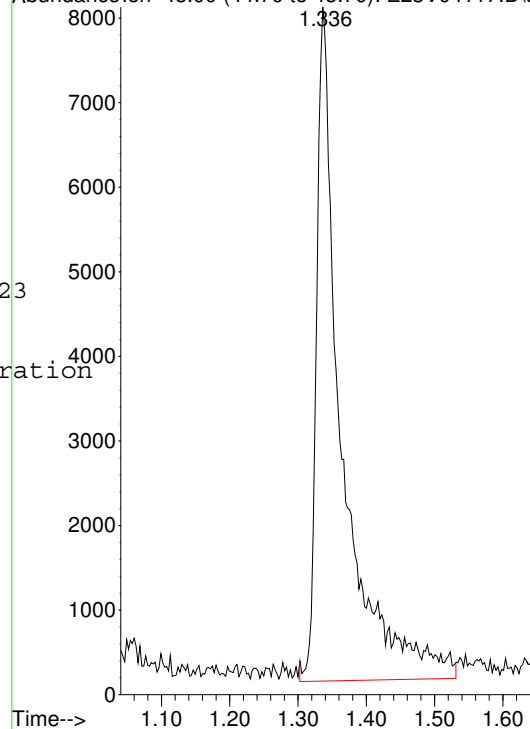
Fri Feb 10 07:45:40 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.34
Area : 20335
Amount: 346.276

Manual Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V04117.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04118.D
 Acq On : 9 Feb 2023 3:39 pm
 Operator :
 Sample : ETOH1000PPB
 Misc : 1
 ALS Vial : 18 Sample Multiplier: 1

Inst : GCMSVOA5

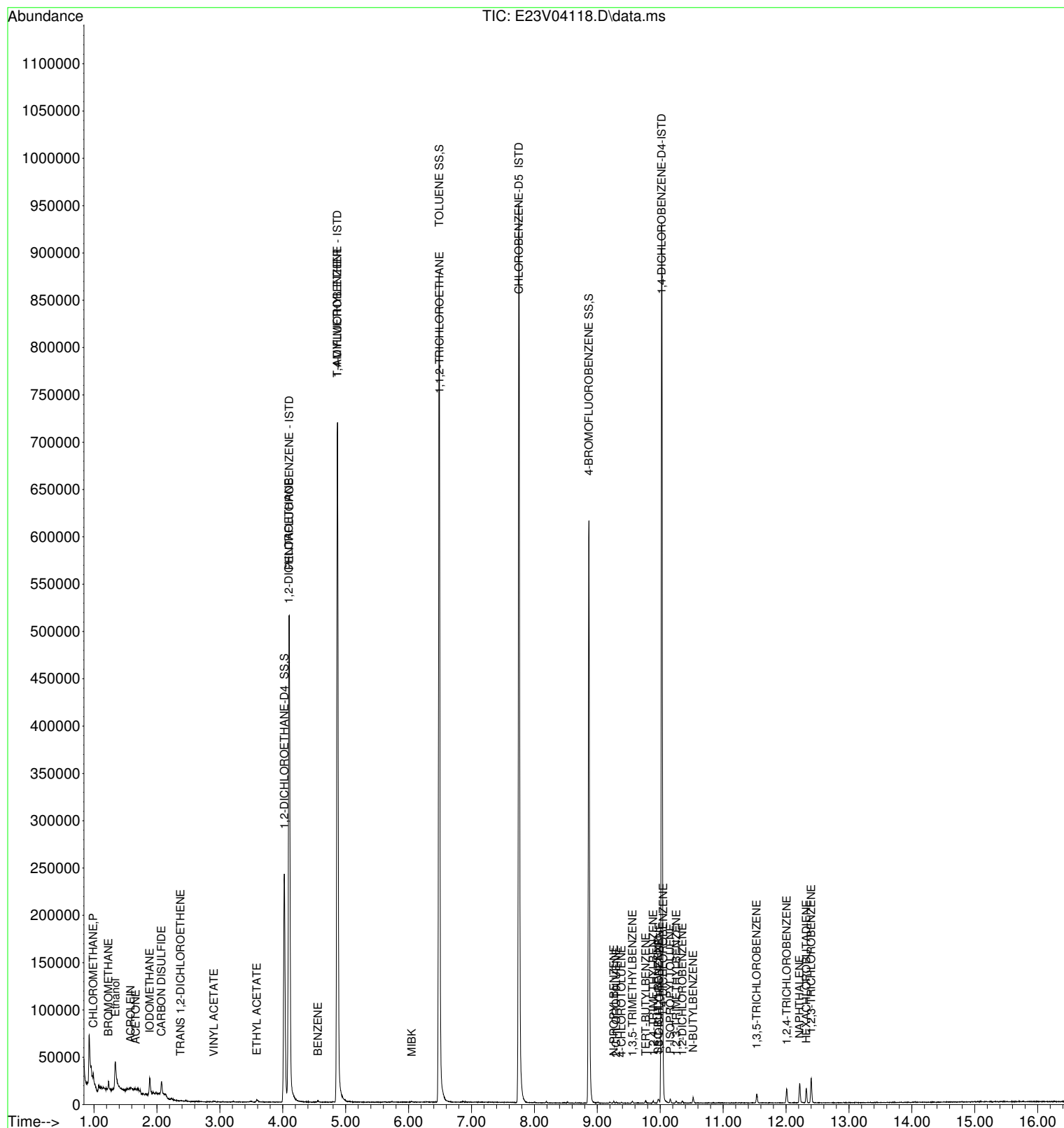
Quant Time: Feb 10 07:45:53 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.102	168	351349	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.869	114	528594	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	252119	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	217351	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.024	65	149837	25.37	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.48%
50) TOLUENE SS	6.487	98	518894	25.24	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.96%
72) 4-BROMOFLUOROBENZENE SS	8.865	95	178244	23.38	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.52%
Target Compounds						
					Qvalue	
5) CHLOROMETHANE	0.987	50	4647	1.13	UG/L	97
7) BROMOMETHANE	1.230	94	4156	1.07	UG/L	94
9) Ethanol	1.339	45	39515m	715.22	UG/L	
13) ACROLEIN	1.581	56	814	0.85	UG/L #	71
14) ACETONE	1.665	43	1467	1.04	UG/L	90
17) IODOMETHANE	1.885	142	15159	2.64	UG/L	95
23) CARBON DISULFIDE	2.072	76	13259	1.32	UG/L #	77
25) TRANS 1,2-DICHLOROETHENE	2.376	61	644	0.14	UG/L #	17
28) VINYL ACETATE	2.903	43	985	0.18	UG/L #	72
36) ETHYL ACETATE	3.589	43	3376	1.24	UG/L #	66
46) BENZENE	4.560	78	1480	0.11	UG/L #	56
48) T-AMYL METHYL ETHER	4.869	73	5391	0.68	UG/L #	37
51) 1,2-DICHLOROETHANE	4.097	62	950	0.19	UG/L #	1
60) MIBK	6.052	43	810	0.28	UG/L #	43
65) 1,1,2-TRICHLOROETHANE	6.492	97	6684	2.23	UG/L #	14
86) N-PROPYLBENZENE	9.261	91	1476	0.09	UG/L #	52
87) 2-CHLOROTOLUENE	9.300	91	930	0.09	UG/L #	37
88) 1,3,5-TRIMETHYLBENZENE	9.560	105	1420	0.13	UG/L	100
89) 4-CHLOROTOLUENE	9.384	91	874	0.09	UG/L #	39
91) TERT-BUTYLBENZENE	9.769	119	1450	0.18	UG/L	97
92) 1,2,4-TRIMETHYLBENZENE	9.889	105	1342	0.15	UG/L	95
93) SEC-BUTYLBENZENE	9.964	105	2643	0.23	UG/L #	58
94) 1,3-DICHLOROBENZENE	9.981	146	874	0.15	UG/L #	74
95) P-ISOPROPYLTOLUENE	10.159	119	2522	0.27	UG/L	95
96) 1,4-DICHLOROBENZENE	10.048	146	1140	0.19	UG/L #	1
97) 1,2,3-TRIMETHYLBENZENE	10.254	105	1569	0.17	UG/L #	92
98) N-BUTYLBENZENE	10.522	91	3243	0.38	UG/L	99
99) 1,2-DICHLOROBENZENE	10.352	146	1124	0.23	UG/L #	70
101) 1,3,5-TRICHLOROBENZENE	11.531	180	3480	1.07	UG/L	97
102) 1,2,4-TRICHLOROBENZENE	12.011	180	4864	2.13	UG/L	94
103) HEXACHLOROBUTADIENE	12.320	225	3177	2.35	UG/L #	76
104) NAPHTHALENE	12.214	128	15600	3.47	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.399	180	8209	4.77	UG/L	95

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

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Inst : GCMSVOA5



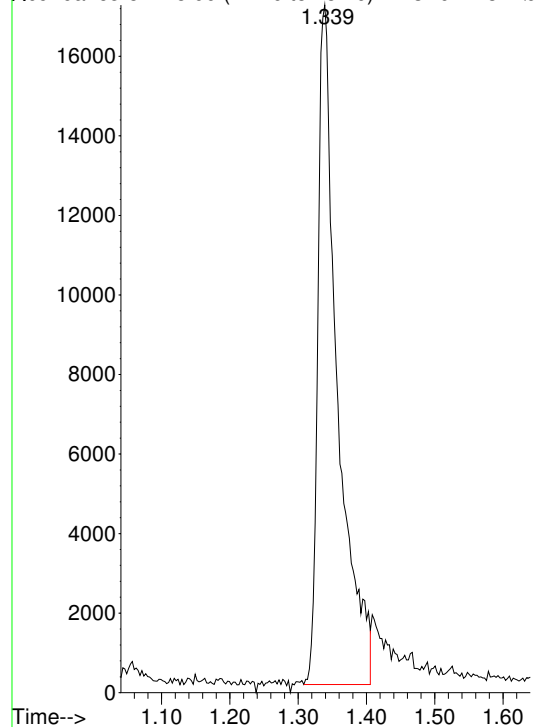
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04118.D
Acq On : 9 Feb 2023 3:39 pm
Operator :
Sample : ETOH1000PPB
Misc : 1

Quant Time : Fri Feb 10 07:45:53 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V04118.D



Original Int. Results

RT : 1.34
Area : 34354
Amount: 618.049

Manual Int. Results

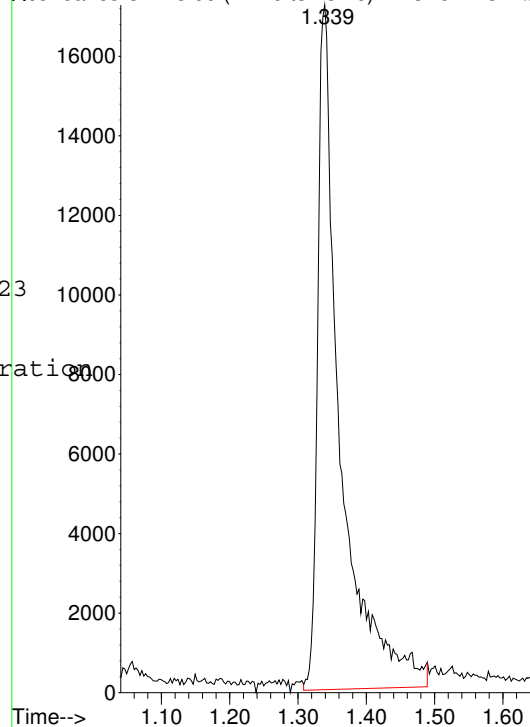
Fri Feb 10 07:45:53 2023

MIuser: EEH
Reason: Incorret Integration
RT : 1.34
Area : 39515
Amount: 715.216

Manual Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V04118.D



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04119.D
 Acq On : 9 Feb 2023 4:07 pm
 Operator :
 Sample : ETOH2000PPB
 Misc : 1
 ALS Vial : 19 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:46:05 2023
 Quant Method : C:\msdchem\1\METHODS\E011123W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Wed Jan 11 13:11:09 2023
 Response via : Initial Calibration

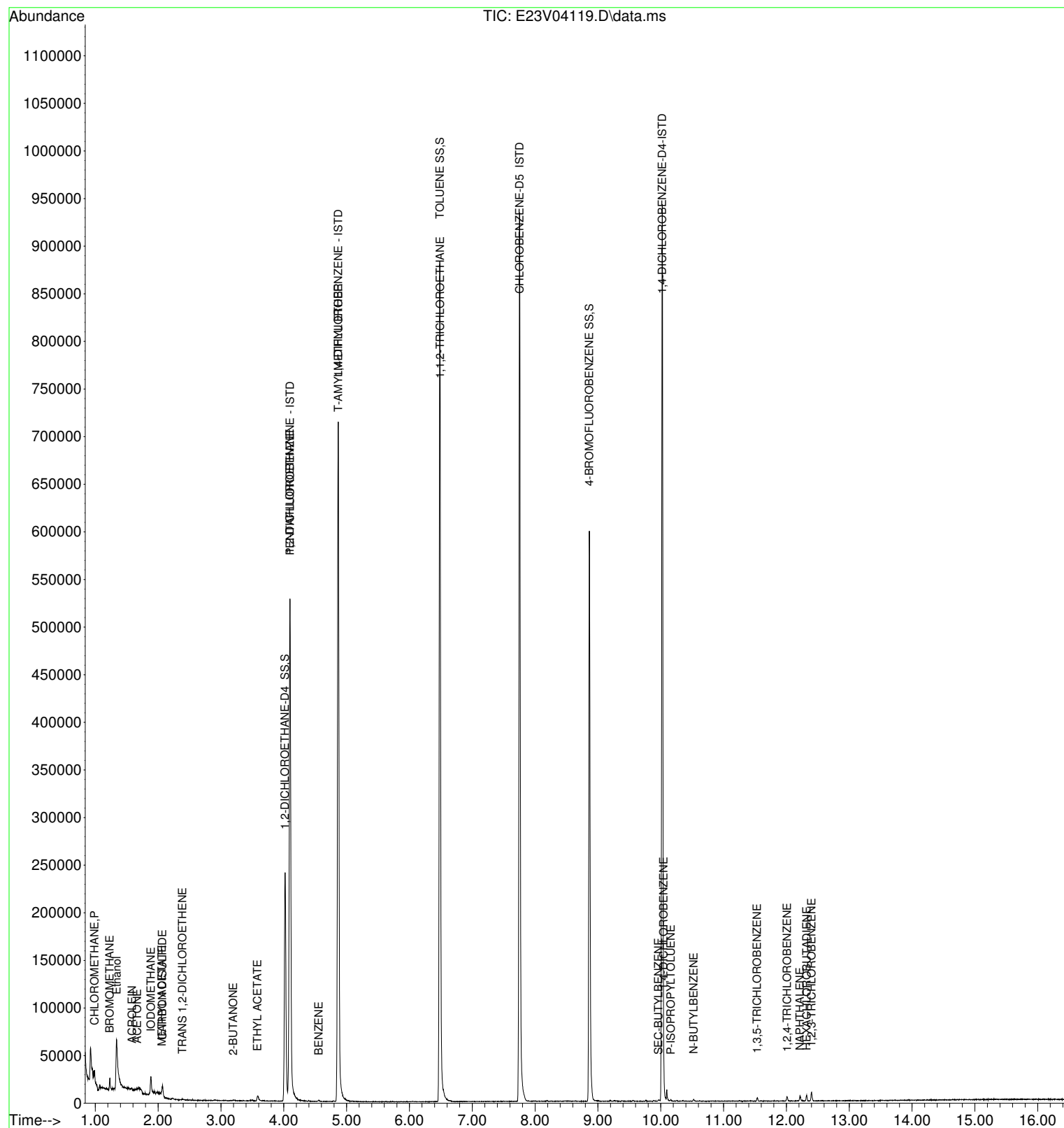
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	358734	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.867	114	532698	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	255810	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	220798	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.019	65	151934	25.20	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.80%
50) TOLUENE SS	6.484	98	523438	25.26	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.04%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	180237	23.30	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.20%
Target Compounds						
					Qvalue	
5) CHLOROMETHANE	0.988	50	6374	1.51	UG/L	99
7) BROMOMETHANE	1.230	94	4885	1.23	UG/L	95
9) Ethanol	1.339	45	80190m	1449.93	UG/L	
13) ACROLEIN	1.584	56	564	0.58	UG/L #	69
14) ACETONE	1.668	43	1473	1.02	UG/L #	42
17) IODOMETHANE	1.885	142	18112	3.09	UG/L	87
19) METHYL ACETATE	2.058	43	908	0.20	UG/L #	56
23) CARBON DISULFIDE	2.070	76	9041	0.88	UG/L #	63
25) TRANS 1,2-DICHLOROETHENE	2.387	61	1303	0.28	UG/L #	17
31) 2-BUTANONE	3.193	43	527	0.40	UG/L #	53
36) ETHYL ACETATE	3.581	43	7004	2.52	UG/L #	83
46) BENZENE	4.557	78	1420	0.11	UG/L #	56
48) T-AMYL METHYL ETHER	4.869	73	5223	0.64	UG/L #	33
51) 1,2-DICHLOROETHANE	4.097	62	1016	0.20	UG/L #	1
65) 1,1,2-TRICHLOROETHANE	6.489	97	7481	2.48	UG/L #	14
93) SEC-BUTYLBENZENE	9.961	105	1296	0.11	UG/L #	58
95) P-ISOPROPYLTOLUENE	10.157	119	1111	0.12	UG/L #	51
96) 1,4-DICHLOROBENZENE	10.045	146	658	0.11	UG/L #	1
98) N-BUTYLBENZENE	10.522	91	1374	0.16	UG/L #	51
101) 1,3,5-TRICHLOROBENZENE	11.531	180	1310	0.40	UG/L	99
102) 1,2,4-TRICHLOROBENZENE	12.008	180	1762	0.76	UG/L	91
103) HEXACHLOROBUTADIENE	12.321	225	1413	1.03	UG/L #	45
104) NAPHTHALENE	12.215	128	4654	1.02	UG/L #	68
105) 1,2,3-TRICHLOROBENZENE	12.399	180	3174	1.82	UG/L	98

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

Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04119.D
Acq On : 9 Feb 2023 4:07 pm
Operator :
Sample : ETOH2000PPB
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 07:46:05 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Wed Jan 11 13:11:09 2023
Response via : Initial Calibration



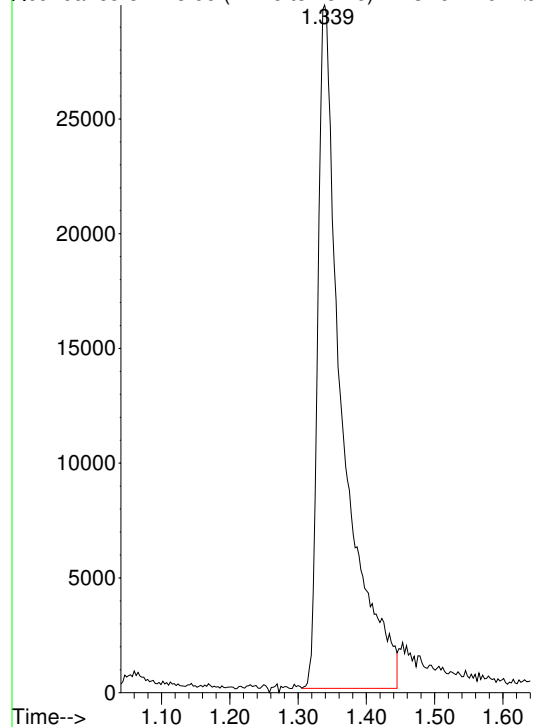
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04119.D
Acq On : 9 Feb 2023 4:07 pm
Operator :
Sample : ETOH2000PPB
Misc : 1

Quant Time : Fri Feb 10 07:46:05 2023
Quant Method : C:\msdchem\1\METHODS\E011123W.m
QLast Update : Wed Jan 11 13:11:09 2023

Original Integration

Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V04119.D\data



Original Int. Results

RT : 1.34
Area : 73968
Amount: 1335.2

Manual Int. Results

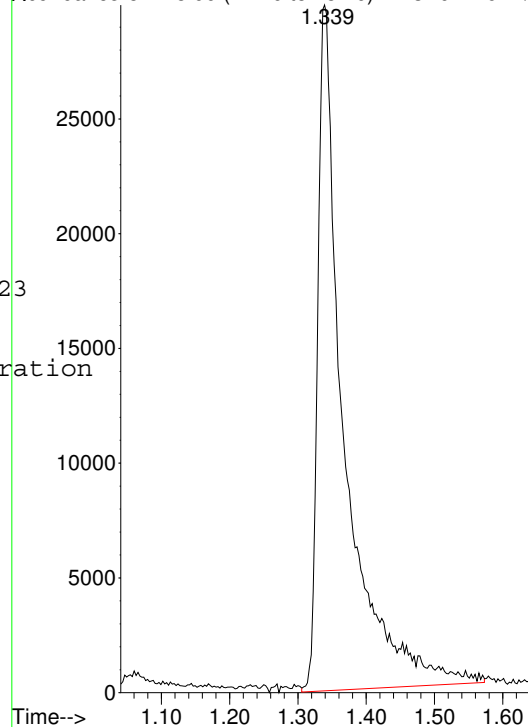
Fri Feb 10 07:46:04 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.34
Area : 80190
Amount: 1449.93

Manual Integration

Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V04119.D\data



Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04123.D
 Acq On : 9 Feb 2023 5:57 pm
 Operator :
 Sample : ICV 2301668
 Misc : 1
 ALS Vial : 23 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Feb 10 09:48:41 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.102	168	342661	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.869	114	520036	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	247199	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	217269	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.024	65	149902	26.40	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.60%
50) TOLUENE SS	6.487	98	505348	25.26	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.04%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	176410	25.57	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.28%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.918	85	42497	10.46	UG/L	99
4) DIFLUOROCHLOROMETHANE	0.887	51	44357	9.56	UG/L	93
5) CHLOROMETHANE	0.990	50	35217	8.73	UG/L	98
6) VINYL CHLORIDE	1.060	62	25474	10.07	UG/L	98
7) BROMOMETHANE	1.230	94	18752	8.21	UG/L	99
8) CHLOROETHANE	1.300	64	22496	11.01	UG/L	99
9) Ethanol	1.336	45	4068m	85.50	UG/L	
10) FLUORODICHLOROMETHANE	1.330	67	61828	10.35	UG/L	99
11) TRICHLOROFLUOROMETHANE	1.573	101	52046	11.07	UG/L	99
12) DI ETHYL ETHER	1.732	59	25649	11.03	UG/L	93
13) ACROLEIN	1.584	56	69712	98.28	UG/L	98
14) ACETONE	1.662	43	121652m	118.96	UG/L	
15) 1,1-DICHLOROETHENE	1.874	61	48975	10.88	UG/L	97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.022	101	38313	10.99	UG/L	95
17) IODOMETHANE	1.885	142	43663	10.08	UG/L	88
19) METHYL ACETATE	2.053	43	53049m	11.98	UG/L	
20) T-BUTYL ALCOHOL	1.950	59	25079	91.62	UG/L #	86
21) ACRYLONITRILE	1.947	53	13278	9.43	UG/L	97
22) METHYLENE CHLORIDE	1.986	49	41018	10.19	UG/L	93
23) CARBON DISULFIDE	2.075	76	107986	11.29	UG/L #	77
24) METHYL TERT-BUTYL ETHE...	2.608	73	78425	9.51	UG/L	94
25) TRANS 1,2-DICHLOROETHENE	2.465	61	48090	10.45	UG/L	93
26) 1,1-DICHLOROETHANE	2.683	63	63395	11.07	UG/L	98
28) VINYL ACETATE	2.900	43	438100m	80.24	UG/L	
30) DI ISOPROYL ETHER	3.221	45	104450	10.82	UG/L	89
31) 2-BUTANONE	3.177	43	162182m	106.04	UG/L	
33) T-BUTYL ETHYL ETHER	3.620	59	89222	10.03	UG/L	97
34) CIS-1,2-DICHLOROETHENE	3.252	61	48421	11.00	UG/L	92
35) 2,2-DICHLOROPROPANE	3.522	77	40601	10.54	UG/L	99
36) ETHYL ACETATE	3.584	43	27868	9.39	UG/L	99
37) BROMOCHLOROMETHANE	3.400	49	27308	11.42	UG/L #	78
38) TETRAHYDROFURAN	3.818	42	8444	9.40	UG/L	94
40) CHLOROFORM	3.472	83	59701	10.07	UG/L	98
42) 1,1,1-TRICHLOROETHANE	4.166	97	49097	10.98	UG/L	96
43) CYCLOHEXANE	4.406	56	65899	10.78	UG/L	91
44) CARBON TETRACHLORIDE	4.498	117	40515	10.28	UG/L	99
45) 1,1-DICHLOROPROPENE	4.367	75	45898	10.12	UG/L	97
46) BENZENE	4.557	78	144135	10.48	UG/L	99
48) T-AMYLMETHYL ETHER	4.808	73	77748	9.55	UG/L #	90
51) 1,2-DICHLOROETHANE	4.100	62	41273	9.98	UG/L #	68
53) TRICHLOROETHENE	5.187	95	36879	10.42	UG/L	97
54) METHYLCYCLOHEXANE	5.625	83	59698	10.62	UG/L	94
55) 1,2-DICHLOROPROPANE	5.140	63	36045	10.03	UG/L	94

Data Path : C:\msdchem\1\DATA\E020923\
 Data File : E23V04123.D
 Acq On : 9 Feb 2023 5:57 pm
 Operator :
 Sample : ICV 2301668
 Misc : 1
 ALS Vial : 23 Sample Multiplier: 1

Inst : GCMSVOA5

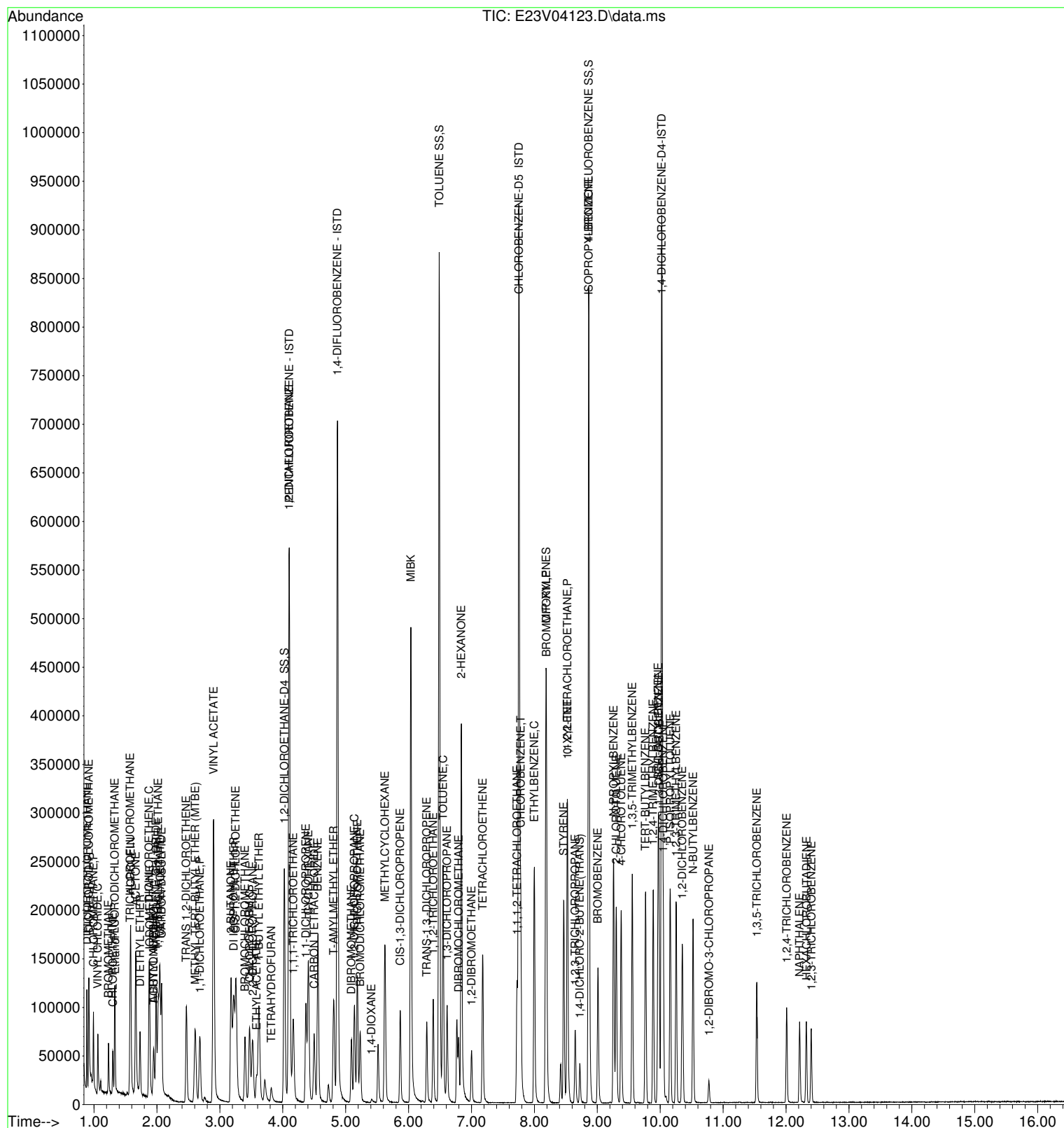
Quant Time: Feb 10 09:48:41 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
56) DIBROMOMETHANE	5.092	93	21080	10.38	UG/L	95
57) 1,4-DIOXANE	5.410	88	3123m	89.83	UG/L	
58) BROMODICHLOROMETHANE	5.232	83	41337	10.34	UG/L	98
60) MIBK	6.035	43	296646	97.66	UG/L	96
61) CIS-1,3-DICHLOROPROPENE	5.865	75	49076	10.77	UG/L	96
62) TOLUENE	6.548	91	148103	10.55	UG/L	100
63) TRANS-1,3,-DICHLOROPRO...	6.289	75	40599	11.38	UG/L	96
65) 1,1,2-TRICHLOROETHANE	6.392	97	30137	10.60	UG/L	97
66) 2-HEXANONE	6.838	43	220145	102.11	UG/L	96
67) TETRACHLOROETHENE	7.175	166	39779	10.74	UG/L	98
68) 1,3-DICHLOROPROPANE	6.612	76	51109	10.24	UG/L	99
69) DIBROMOCHLOROMETHANE	6.796	129	30542	10.26	UG/L	100
70) 1,2-DIBROMOETHANE	7.000	107	31857	10.71	UG/L	99
73) CHLOROBENZENE	7.781	112	93642	10.71	UG/L	93
74) 1,1,1,2-TETRACHLOROETHANE	7.725	131	30677	10.67	UG/L	93
75) ETHYLBENZENE	7.998	91	159269	10.93	UG/L	98
76) M/P-XYLENES	8.185	91	249648	22.03	UG/L	99
77) O-XYLENE	8.522	91	123726	11.23	UG/L	99
78) STYRENE	8.464	104	90354	10.94	UG/L	99
79) BROMOFORM	8.190	173	19283	9.90	UG/L #	98
80) ISOPROPYLBENZENE	8.860	105	151657	10.86	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	37970	10.08	UG/L	99
83) 1,4-DICHLORO-2-BUTENE (...)	8.720	53	7257	9.15	UG/L #	80
84) BROMOBENZENE	9.008	77	54366	10.53	UG/L	91
85) 1,2,3-TRICHLOROPROPANE	8.648	75	30296	10.62	UG/L	94
86) N-PROPYLBENZENE	9.259	91	172602	10.99	UG/L	98
87) 2-CHLOROTOLUENE	9.298	91	94213	9.89	UG/L	98
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	110927	10.78	UG/L	100
89) 4-CHLOROTOLUENE	9.378	91	100553	10.78	UG/L	98
91) TERT-BUTYLBENZENE	9.763	119	95034	10.70	UG/L	98
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	105990	10.58	UG/L	99
93) SEC-BUTYLBENZENE	9.967	105	142692	11.44	UG/L	99
94) 1,3-DICHLOROBENZENE	9.978	146	63824	10.66	UG/L	100
95) P-ISOPROPYLTOLUENE	10.156	119	114361	11.16	UG/L	100
96) 1,4-DICHLOROBENZENE	10.048	146	63897	10.30	UG/L	98
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	101277	9.93	UG/L	95
98) N-BUTYLBENZENE	10.522	91	95353	10.34	UG/L	99
99) 1,2-DICHLOROBENZENE	10.349	146	56079	10.54	UG/L	100
100) 1,2-DIBROMO-3-CHLOROPR...	10.773	75	4629	10.13	UG/L	96
101) 1,3,5-TRICHLOROBENZENE	11.534	180	35572	9.91	UG/L	99
102) 1,2,4-TRICHLOROBENZENE	12.008	180	27827	10.15	UG/L	96
103) HEXACHLOROBUTADIENE	12.323	225	15733	10.73	UG/L	91
104) NAPHTHALENE	12.214	128	57317	9.46	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.401	180	21807	10.07	UG/L	99

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

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Quant Time: Feb 10 09:48:41 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration



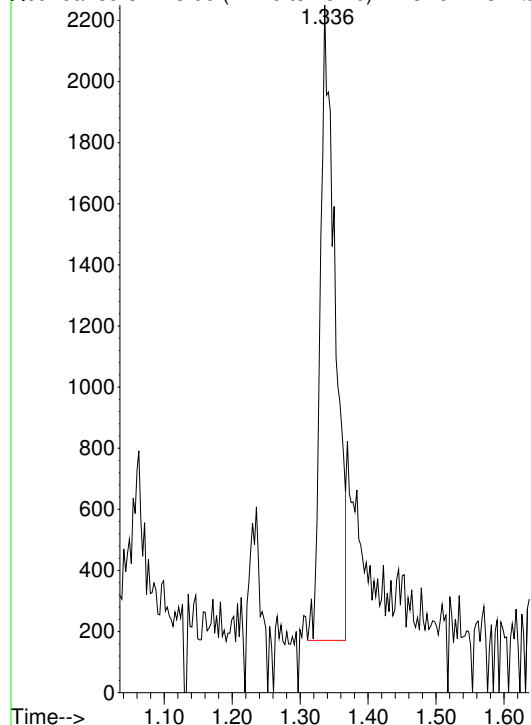
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04123.D
Acq On : 9 Feb 2023 5:57 pm
Operator :
Sample : ICV 2301668
Misc : 1

Quant Time : Fri Feb 10 09:48:41 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V04123.D



Original Int. Results

RT : 1.34
Area : 3169
Amount: 66.6038

Manual Int. Results

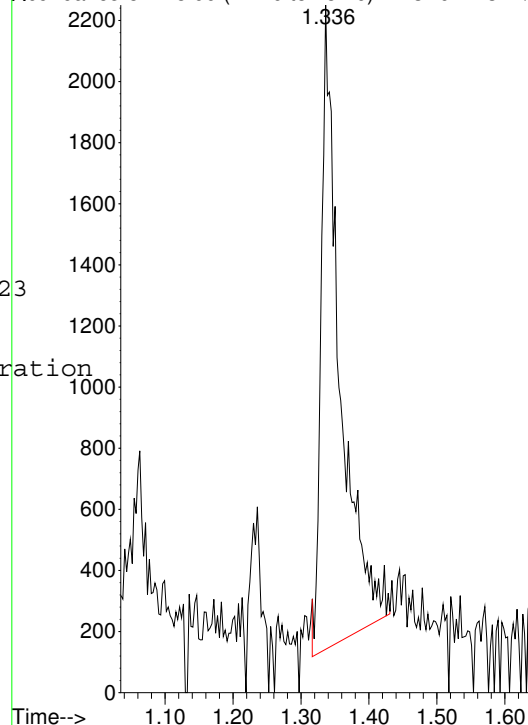
Fri Feb 10 09:48:04 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.34
Area : 4068
Amount: 85.4984

Manual Integration

Ethanol

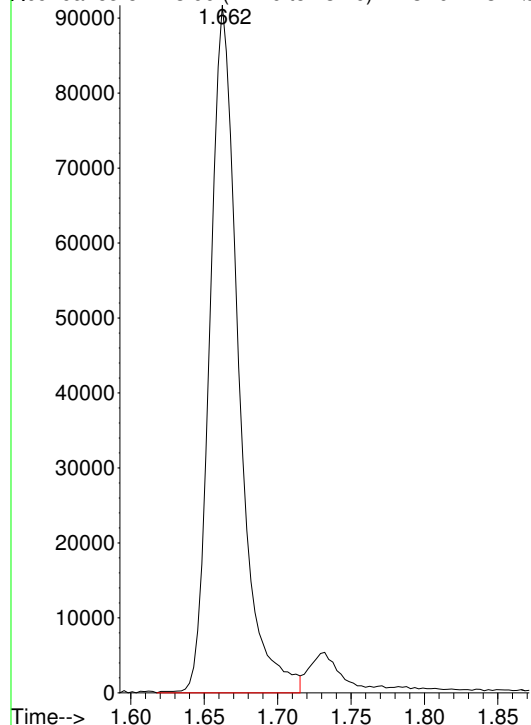
Abundance 45.00 (44.70 to 45.70): E23V04123.D



Original Integration

ACETONE

Abundance 43.00 (42.70 to 43.70): E23V04123.D



Original Int. Results

RT : 1.66
Area : 124404
Amount: 121.654

Manual Int. Results

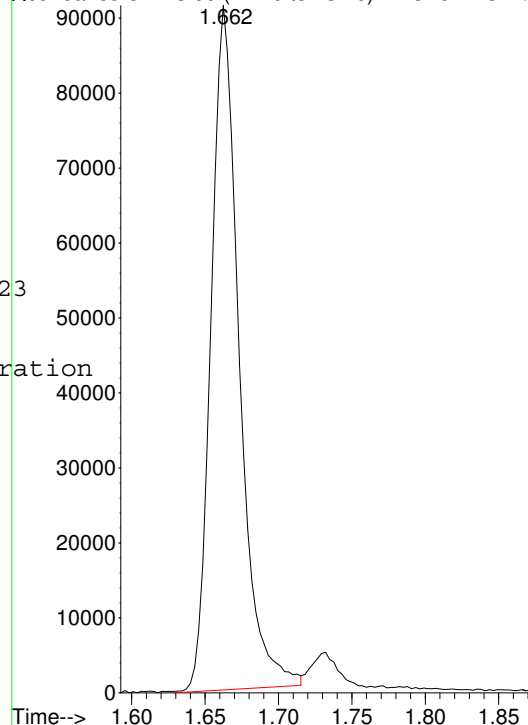
Fri Feb 10 09:47:56 2023

MIuser: EEH
Reason: Incoret Integration
RT : 1.66
Area : 121652
Amount: 118.963

Manual Integration

ACETONE

Abundance 43.00 (42.70 to 43.70): E23V04123.D



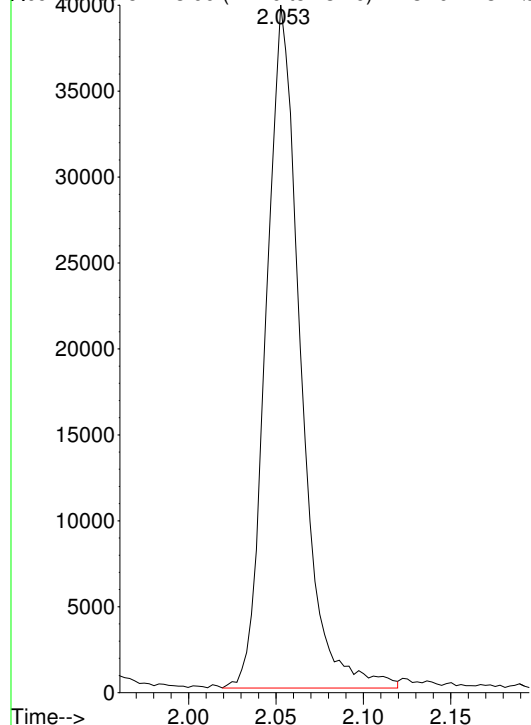
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04123.D
Acq On : 9 Feb 2023 5:57 pm
Operator :
Sample : ICV 2301668
Misc : 1

Quant Time : Fri Feb 10 09:48:41 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

METHYL ACETATE

Abundance on 43.00 (42.70 to 43.70): E23V04123.D



Original Int. Results

RT : 2.05
Area : 54341
Amount: 12.2734

Manual Int. Results

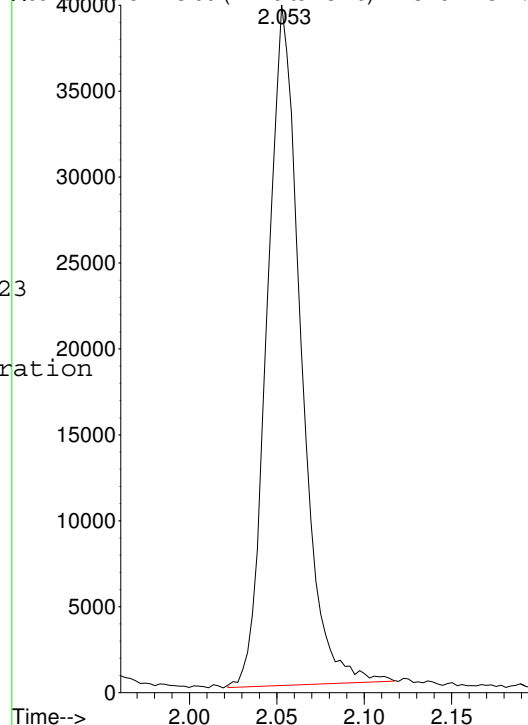
Fri Feb 10 09:48:12 2023

MIuser: EEH
Reason: Incoret Integration
RT : 2.05
Area : 53049
Amount: 11.9816

Manual Integration

METHYL ACETATE

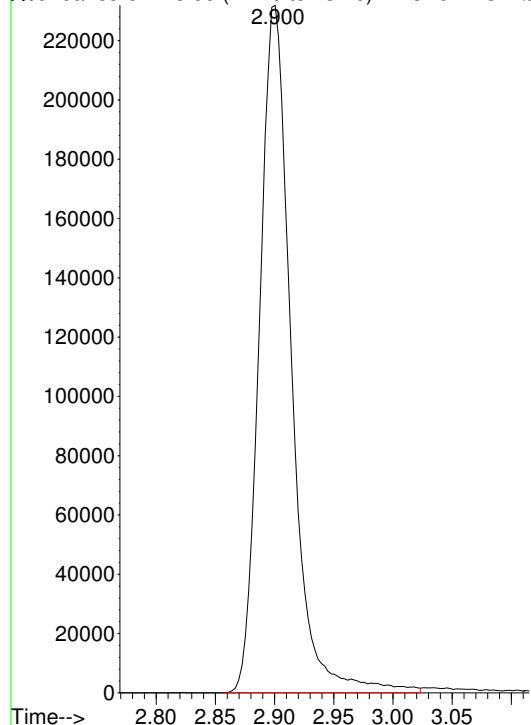
Abundance on 43.00 (42.70 to 43.70): E23V04123.D



Original Integration

VINYL ACETATE

Abundance on 43.00 (42.70 to 43.70): E23V04123.D



Original Int. Results

RT : 2.90
Area : 434428
Amount: 79.5654

Manual Int. Results

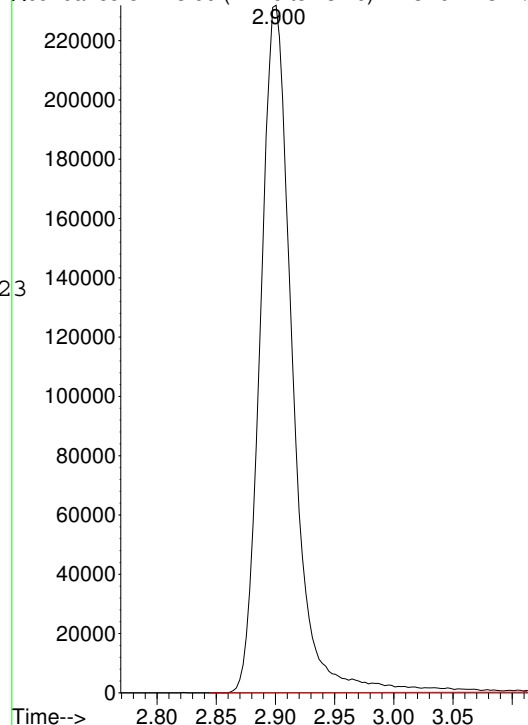
Fri Feb 10 09:48:23 2023

MIuser: EEH
Reason: Other
RT : 2.90
Area : 438100
Amount: 80.2379

Manual Integration

VINYL ACETATE

Abundance on 43.00 (42.70 to 43.70): E23V04123.D



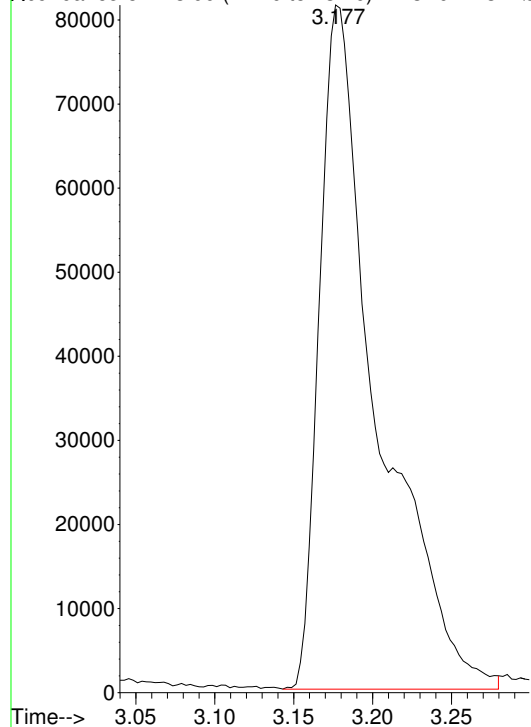
Data Path : C:\msdchem\1\DATA\E020923\
Data File : E23V04123.D
Acq On : 9 Feb 2023 5:57 pm
Operator :
Sample : ICV 2301668
Misc : 1

Quant Time : Fri Feb 10 09:48:41 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V04123.D



Original Int. Results

RT : 3.18
Area : 206960
Amount: 135.314

Manual Int. Results

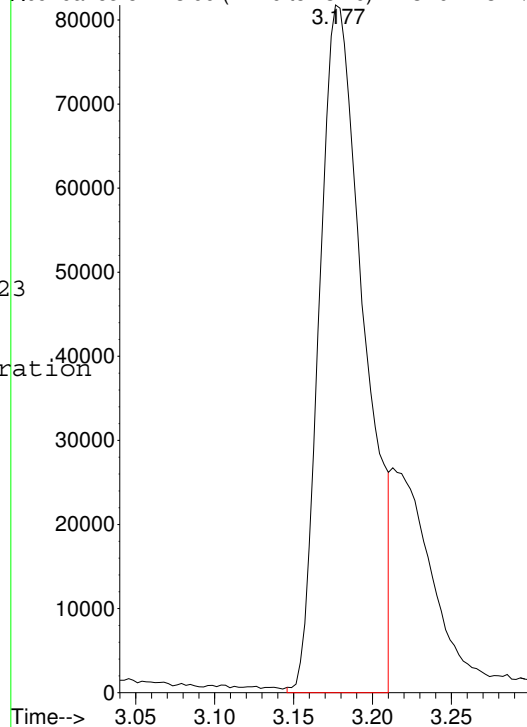
Fri Feb 10 09:48:32 2023

MIuser: EEH
Reason: Incoret Integration
RT : 3.18
Area : 162182
Amount: 106.037

Manual Integration

2-BUTANONE

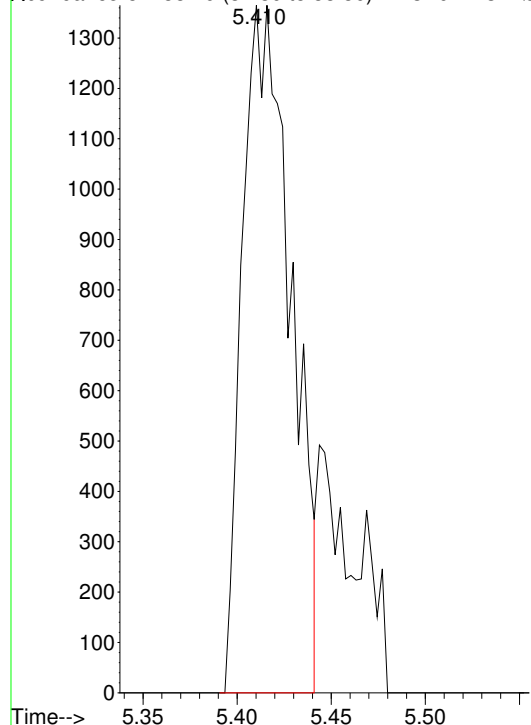
Abundance on 43.00 (42.70 to 43.70): E23V04123.D



Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V04123.D



Original Int. Results

RT : 5.41
Area : 2465
Amount: 70.9071

Manual Int. Results

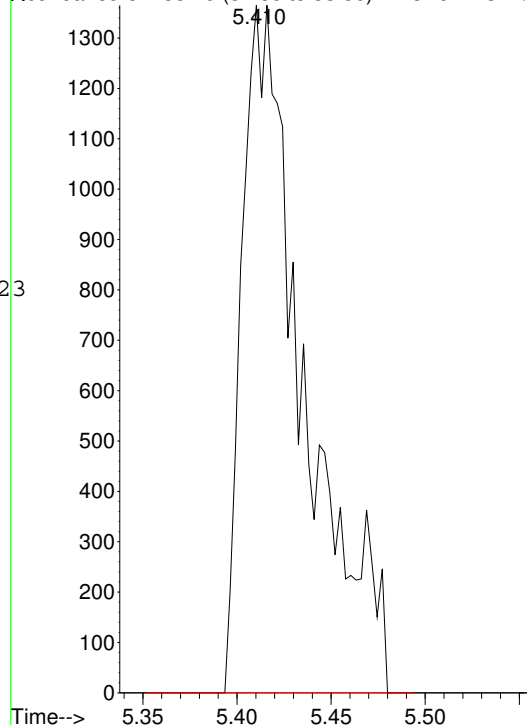
Fri Feb 10 09:48:41 2023

MIuser: EEH
Reason: Other
RT : 5.41
Area : 3123
Amount: 89.8348

Manual Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V04123.D



INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediat	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	GCMSVOA5	Calibration:	2300183
Lab File ID:	E23V04123.D	Calibration Date:	02/09/23 10:07
Sequence:	S083087	Injection Date:	02/09/23
Lab Sample ID:	S083087-ICV1	Injection Time:	17:57

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100	119	8.392821E-02	0.1065064		26.9	
Acrolein	A	100	98.3	6.210203E-02	6.103292E-02		-1.7	
Acrylonitrile	A	10.0	9.43	0.123277	0.116249		-5.7	
tert-Amyl Methyl Ether (TAME)	A	10.0	9.55	0.7127068	0.6806844		-4.5	
Benzene	A	10.0	10.5	1.203912	1.261903		4.8	
Bromobenzene	A	10.0	10.5	0.6264453	0.6597842		5.3	
Bromochloromethane	A	10.0	11.4	0.2094073	0.2390818		14.2	
Bromodichloromethane	A	10.0	10.3	0.2306325	0.2384662		3.4	
Bromoform	A	10.0	9.90	0.2364857	0.2340179		-1.0	
Bromomethane	A	10.0	8.21	0.1999593	0.1641739		-17.9	
2-Butanone (MEK)	A	100	106	0.1339062	0.1419905		6.0	
tert-Butyl Alcohol (TBA)	A	100	91.6	2.396451E-02	2.195669E-02		-8.4	
n-Butylbenzene	A	10.0	10.3	1.273736	1.316612		3.4	
sec-Butylbenzene	A	10.0	11.4	1.722574	1.970258		14.4	
tert-Butylbenzene	A	10.0	10.7	1.226052	1.312207		7.0	
tert-Butyl Ethyl Ether (TBEE)	A	10.0	10.0	0.7787281	0.7811394		0.3	
Carbon Disulfide	A	10.0	11.3	0.8372281	0.9454184		12.9	
Carbon Tetrachloride	A	10.0	10.3	0.3451671	0.3547092		2.8	
Chlorobenzene	A	10.0	10.7	1.061214	1.136437		7.1	
Chlorodibromomethane	A	10.0	10.3	0.1718025	0.1761916		2.6	
Chloroethane	A	10.0	11.0	0.1789061	0.1969527		10.1	
Chloroform	A	10.0	10.1	0.5191691	0.5226828		0.7	
Chloromethane	A	10.0	8.73	0.353007	0.3083251		-12.7	
2-Chlorotoluene	A	10.0	9.89	1.155565	1.143366		-1.1	
4-Chlorotoluene	A	10.0	10.8	1.131774	1.220308		7.8	
Cyclohexane	A	10.0	10.8	0.5351902	0.5769463		7.8	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	10.1	6.308667E-02	6.391616E-02		1.3	
1,2-Dibromoethane (EDB)	A	10.0	10.7	0.1715944	0.1837777		7.1	
Dibromomethane	A	10.0	10.4	0.1171663	0.121607		3.8	

INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediat	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	GCMSVOA5	Calibration:	2300183
Lab File ID:	E23V04123.D	Calibration Date:	02/09/23 10:07
Sequence:	S083087	Injection Date:	02/09/23
Lab Sample ID:	S083087-ICV1	Injection Time:	17:57

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dichlorobenzene	A	10.0	10.5	0.7349742	0.7743258		5.4	
1,3-Dichlorobenzene	A	10.0	10.7	0.8267141	0.881267		6.6	
1,4-Dichlorobenzene	A	10.0	10.3	0.8565107	0.882275		3.0	
trans-1,4-Dichloro-2-butene	A	10.0	9.15	9.627218E-02	8.807074E-02		-8.5	
Dichlorodifluoromethane (Freon 12)	A	10.0	10.5	0.3557065	0.3720616		4.6	
1,1-Dichloroethane	A	10.0	11.1	0.5013873	0.5550238		10.7	
1,2-Dichloroethane	A	10.0	9.98	0.238533	0.238097		-0.2	
1,1-Dichloroethylene	A	10.0	10.9	0.3941065	0.4287765		8.8	
cis-1,2-Dichloroethylene	A	10.0	11.0	0.3852349	0.4239263		10.0	
trans-1,2-Dichloroethylene	A	10.0	10.4	0.4028556	0.4210284		4.5	
Dichlorofluoromethane (Freon 21)	A	10.0	10.4	0.5229172	0.5413047		3.5	
1,2-Dichloropropane	A	10.0	10.0	0.2073328	0.2079375		0.3	
1,3-Dichloropropane	A	10.0	10.2	0.2880472	0.2948392		2.4	
2,2-Dichloropropane	A	10.0	10.5	0.3373236	0.3554621		5.4	
1,1-Dichloropropene	A	10.0	10.1	0.396927	0.4018374		1.2	
cis-1,3-Dichloropropene	A	10.0	10.8	0.2629665	0.2831112		7.7	
trans-1,3-Dichloropropene	A	10.0	11.4	0.2058495	0.2342088		13.8	
Diethyl Ether	A	10.0	11.0	0.2036765	0.2245572		10.3	
Difluorochloromethane (Freon 22)	A	10.0	9.56	0.4061972	0.3883459		-4.4	
Diisopropyl Ether (DIPE)	A	10.0	10.8	0.8452474	0.9144606		8.2	
1,4-Dioxane	A	100	89.8	2.005466E-03	1.801606E-03		-10.2	
Ethanol	A	100	85.5	4.165619E-03	3.561537E-03		-14.5	
Ethyl Acetate	A	10.0	9.39	0.2597411	0.2439846		-6.1	
Ethylbenzene	A	10.0	10.9	1.768822	1.932884		9.3	
Hexachlorobutadiene	A	10.0	10.7	0.2024533	0.2172376		7.3	
2-Hexanone (MBK)	A	100	102	0.1243759	0.1269979		2.1	
Iodomethane	A	10.0	10.1	0.3793351	0.3822699		0.8	
Isopropylbenzene (Cumene)	A	10.0	10.9	1.694762	1.840505		8.6	

INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediat	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	GCMSVOA5	Calibration:	2300183
Lab File ID:	E23V04123.D	Calibration Date:	02/09/23 10:07
Sequence:	S083087	Injection Date:	02/09/23
Lab Sample ID:	S083087-ICV1	Injection Time:	17:57

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR		% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	LIMIT (#)
p-Isopropyltoluene (p-Cymene)	A	10.0	11.2	1.414644	1.57907		11.6
Methyl Acetate	A	10.0	12.0	0.3876303	0.4644445		19.8
Methyl tert-Butyl Ether (MTBE)	A	10.0	9.51	0.7220076	0.6866115		-4.9
Methyl Cyclohexane	A	10.0	10.6	0.3243465	0.3443877		6.2
Methylene Chloride	A	10.0	10.2	0.3524316	0.3591129		1.9
4-Methyl-2-pentanone (MIBK)	A	100	97.7	0.1752224	0.1711301		-2.3
Naphthalene	A	10.0	9.46	0.8369242	0.7914199		-5.4
n-Propylbenzene	A	10.0	11.0	1.905715	2.094693		9.9
Styrene	A	10.0	10.9	1.002583	1.096534		9.4
1,1,1,2-Tetrachloroethane	A	10.0	10.7	0.3488962	0.3722952		6.7
1,1,2,2-Tetrachloroethane	A	10.0	10.1	0.4571675	0.4608028		0.8
Tetrachloroethylene	A	10.0	10.7	0.2137449	0.2294783		7.4
Tetrahydrofuran	A	10.0	9.40	7.866487E-02	7.392729E-02		-6.0
Toluene	A	10.0	10.6	0.8096847	0.8543812		5.5
1,2,3-Trichlorobenzene	A	10.0	10.1	0.299125	0.301106		0.7
1,2,4-Trichlorobenzene	A	10.0	10.2	0.3784861	0.3842288		1.5
1,3,5-Trichlorobenzene	A	10.0	9.91	0.4958638	0.4911699		-0.9
1,1,1-Trichloroethane	A	10.0	11.0	0.391368	0.4298447		9.8
1,1,2-Trichloroethane	A	10.0	10.6	0.1640147	0.1738553		6.0
Trichloroethylene	A	10.0	10.4	0.2041535	0.2127487		4.2
Trichlorofluoromethane (Freon 11)	A	10.0	11.1	0.4115799	0.4556632		10.7
1,2,3-Trichloropropane	A	10.0	10.6	0.3461926	0.3676714		6.2
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	11.0	0.3051662	0.3354306		9.9
1,2,3-Trimethylbenzene	A	10.0	9.93	1.408612	1.398409		-0.7
1,2,4-Trimethylbenzene	A	10.0	10.6	1.383514	1.463485		5.8
1,3,5-Trimethylbenzene	A	10.0	10.8	1.24887	1.346207		7.8
Vinyl Acetate	A	100	80.2	0.4780247	0.3835569		-19.8
Vinyl Chloride	A	10.0	10.1	0.2214266	0.2230251		0.7

INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediat	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	GCMSVOA5	Calibration:	2300183
Lab File ID:	E23V04123.D	Calibration Date:	02/09/23 10:07
Sequence:	S083087	Injection Date:	02/09/23
Lab Sample ID:	S083087-ICV1	Injection Time:	17:57

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
m+p Xylene	A	20.0	22.0	1.375035	1.51486		10.2	
o-Xylene	A	10.0	11.2	1.33756	1.501535		12.3	
1,2-Dichloroethane-d4	A	25.0	26.4	0.4971246	0.5249573		5.6	
Toluene-d8	A	25.0	25.3	1.15431	1.166107		1.0	
4-Bromofluorobenzene	A	25.0	25.6	0.837306	0.8563627		2.3	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediat	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	GCMSVOA5	Calibration:	2300183
Lab File ID:	E23V09002.D	Calibration Date:	02/09/23 10:07
Sequence:	S085366	Injection Date:	03/31/23
Lab Sample ID:	S085366-CCV1	Injection Time:	08:08

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100	107	8.392821E-02	8.960943E-02		6.8	20
Acrylonitrile	A	10.0	10.6	0.123277	0.1303708		5.8	20
tert-Amyl Methyl Ether (TAME)	A	10.0	8.79	0.7127068	0.6262673		-12.1	20
Benzene	A	10.0	9.93	1.203912	1.1959		-0.7	20
Bromobenzene	A	10.0	10.5	0.6264453	0.6598841		5.3	20
Bromochloromethane	A	10.0	10.9	0.2094073	0.2282616		9.0	20
Bromodichloromethane	A	10.0	9.95	0.2306325	0.2295207		-0.5	20
Bromoform	A	10.0	10.9	0.2364857	0.2567968		8.6	20
Bromomethane	A	10.0	7.47	0.1999593	0.1493174		-25.3	20
2-Butanone (MEK)	A	100	108	0.1339062	0.1446979		8.1	20
tert-Butyl Alcohol (TBA)	A	100	105	2.396451E-02	2.522496E-02		5.3	20
n-Butylbenzene	A	10.0	10.4	1.273736	1.319482		3.6	20
sec-Butylbenzene	A	10.0	10.4	1.722574	1.785158		3.6	20
tert-Butylbenzene	A	10.0	10.2	1.226052	1.246866		1.7	20
tert-Butyl Ethyl Ether (TBEE)	A	10.0	8.97	0.7787281	0.6981837		-10.3	20
Carbon Disulfide	A	100	115	0.8372281	0.959241		14.6	20
Carbon Tetrachloride	A	10.0	10.3	0.3451671	0.3543588		2.7	20
Chlorobenzene	A	10.0	10.8	1.061214	1.141221		7.5	20
Chlorodibromomethane	A	10.0	10.2	0.1718025	0.1747549		1.7	20
Chloroethane	A	10.0	9.63	0.1789061	0.1723715		-3.7	20
Chloroform	A	10.0	9.83	0.5191691	0.5102054		-1.7	20
Chloromethane	A	10.0	9.50	0.353007	0.3353884		-5.0	20
2-Chlorotoluene	A	10.0	9.62	1.155565	1.112037		-3.8	20
4-Chlorotoluene	A	10.0	10.2	1.131774	1.154389		2.0	20
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	9.48	6.308667E-02	0.0598217		-5.2	20
1,2-Dibromoethane (EDB)	A	10.0	10.3	0.1715944	0.1763529		2.8	20
Dibromomethane	A	10.0	10.4	0.1171663	0.1220167		4.1	20
1,2-Dichlorobenzene	A	10.0	10.1	0.7349742	0.7425367		1.0	20
1,3-Dichlorobenzene	A	10.0	10.4	0.8267141	0.8573117		3.7	20

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediat	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	GCMSVOA5	Calibration:	2300183
Lab File ID:	E23V09002.D	Calibration Date:	02/09/23 10:07
Sequence:	S085366	Injection Date:	03/31/23
Lab Sample ID:	S085366-CCV1	Injection Time:	08:08

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dichlorobenzene	A	10.0	9.87	0.8565107	0.8457122		-1.3	20
trans-1,4-Dichloro-2-butene	A	10.0	8.38	9.627218E-02	8.068779E-02		-16.2	20
Dichlorodifluoromethane (Freon 12)	A	10.0	10.1	0.3557065	0.359408		1.0	20
1,1-Dichloroethane	A	10.0	10.1	0.5013873	0.5056389		0.8	20
1,2-Dichloroethane	A	10.0	9.67	0.238533	0.230558		-3.3	20
1,1-Dichloroethylene	A	10.0	11.3	0.3941065	0.4469471		13.4	20
cis-1,2-Dichloroethylene	A	10.0	10.3	0.3852349	0.395481		2.7	20
trans-1,2-Dichloroethylene	A	10.0	10.2	0.4028556	0.4097186		1.7	20
1,2-Dichloropropane	A	10.0	9.87	0.2073328	0.2047286		-1.3	20
1,3-Dichloropropane	A	10.0	10.0	0.2880472	0.2896148		0.5	20
2,2-Dichloropropane	A	10.0	9.86	0.3373236	0.3326738		-1.4	20
1,1-Dichloropropene	A	10.0	10.1	0.396927	0.4000791		0.8	20
cis-1,3-Dichloropropene	A	10.0	9.85	0.2629665	0.2589809		-1.5	20
trans-1,3-Dichloropropene	A	10.0	9.34	0.2058495	0.192212		-6.6	20
Diethyl Ether	A	10.0	11.1	0.2036765	0.2259665		10.9	20
Diisopropyl Ether (DIPE)	A	10.0	10.3	0.8452474	0.8685054		2.8	20
1,4-Dioxane	A	100	88.4	2.005466E-03	1.771911E-03		-11.6	20
Ethylbenzene	A	10.0	10.4	1.768822	1.835165		3.8	20
Hexachlorobutadiene	A	10.0	10.0	0.2024533	0.2034991		0.5	20
2-Hexanone (MBK)	A	100	101	0.1243759	0.1261185		1.4	20
Isopropylbenzene (Cumene)	A	10.0	10.3	1.694762	1.738213		2.6	20
p-Isopropyltoluene (p-Cymene)	A	10.0	10.2	1.414644	1.450391		2.5	20
Methyl Acetate	A	10.0	10.2	0.3876303	0.3971192		2.4	20
Methyl tert-Butyl Ether (MTBE)	A	10.0	8.91	0.7220076	0.6429662		-10.9	20
Methyl Cyclohexane	A	10.0	9.75	0.3243465	0.3162249		-2.5	20
Methylene Chloride	A	10.0	9.84	0.3524316	0.3467532		-1.6	20
4-Methyl-2-pentanone (MIBK)	A	100	104	0.1752224	0.1828904		4.4	20
Naphthalene	A	10.0	9.63	0.8369242	0.805557		-3.7	20
n-Propylbenzene	A	10.0	10.4	1.905715	1.985902		4.2	20

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediat	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	GCMSVOA5	Calibration:	2300183
Lab File ID:	E23V09002.D	Calibration Date:	02/09/23 10:07
Sequence:	S085366	Injection Date:	03/31/23
Lab Sample ID:	S085366-CCV1	Injection Time:	08:08

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Styrene	A	10.0	10.4	1.002583	1.046718		4.4	20
1,1,1,2-Tetrachloroethane	A	10.0	10.7	0.3488962	0.3743804		7.3	20
1,1,2,2-Tetrachloroethane	A	10.0	10.5	0.4571675	0.4799982		5.0	20
Tetrachloroethylene	A	10.0	10.2	0.2137449	0.2182668		2.1	20
Tetrahydrofuran	A	10.0	10.4	7.866487E-02	8.195164E-02		4.2	20
Toluene	A	10.0	10.0	0.8096847	0.8130883		0.4	20
1,2,3-Trichlorobenzene	A	10.0	10.1	0.299125	0.3022814		1.1	20
1,2,4-Trichlorobenzene	A	10.0	9.76	0.3784861	0.3692966		-2.4	20
1,3,5-Trichlorobenzene	A	10.0	9.91	0.4958638	0.4915219		-0.9	20
1,1,1-Trichloroethane	A	10.0	10.2	0.391368	0.398797		1.9	20
1,1,2-Trichloroethane	A	10.0	10.5	0.1640147	0.1715537		4.6	20
Trichloroethylene	A	10.0	9.94	0.2041535	0.202832		-0.6	20
Trichlorofluoromethane (Freon 11)	A	10.0	11.0	0.4115799	0.4522654		9.9	20
1,2,3-Trichloropropane	A	10.0	10.5	0.3461926	0.3629136		4.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.8	0.3051662	0.3297693		8.1	20
1,2,4-Trimethylbenzene	A	10.0	10.0	1.383514	1.390556		0.5	20
1,3,5-Trimethylbenzene	A	10.0	10.4	1.24887	1.294328		3.6	20
Vinyl Chloride	A	10.0	13.4	0.2214266	0.297693		34.4	20 *
m+p Xylene	A	20.0	21.0	1.375035	1.446431		5.2	20
o-Xylene	A	10.0	10.3	1.33756	1.383386		3.4	20
1,2-Dichloroethane-d4	A	25.0	24.9	0.4971246	0.4946191		-0.5	
Toluene-d8	A	25.0	24.3	1.15431	1.120196		-3.0	
4-Bromofluorobenzene	A	25.0	24.9	0.837306	0.8332142		-0.5	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09002.D
 Acq On : 31 Mar 2023 8:08 am
 Operator :
 Sample : 8260STD 10PPB 2303196
 Misc : 1
 ALS Vial : 2 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Mar 31 11:22:48 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	379065	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	572602	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.750	82	264501	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	233544	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.019	65	156244	24.87	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.48%
50) TOLUENE SS	6.484	98	534522	24.26	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.04%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	183655	24.88	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.52%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.918	85	45413	10.10	UG/L	98
4) DIFLUOROCHLOROMETHANE	0.887	51	54537	10.63	UG/L	93
5) CHLOROMETHANE	0.990	50	42378	9.50	UG/L	98
6) VINYL CHLORIDE	1.063	62	37615	13.44	UG/L	98
7) BROMOMETHANE	1.227	94	18867	7.47	UG/L	96
8) CHLOROETHANE	1.300	64	21780	9.63	UG/L	97
9) Ethanol	1.339	45	6463	122.79	UG/L #	61
10) FLUORODICHLOROMETHANE	1.331	67	76754	11.62	UG/L	99
11) TRICHLOROFLUOROMETHANE	1.568	101	57146	10.99	UG/L	98
12) DI ETHYL ETHER	1.726	59	28552	11.09	UG/L	93
13) ACROLEIN	1.584	56	81825	104.28	UG/L	98
14) ACETONE	1.662	43	113226	106.77	UG/L	94
15) 1,1-DICHLOROETHENE	1.869	61	56474	11.34	UG/L	96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.019	101	41668	10.81	UG/L	95
17) IODOMETHANE	1.883	142	416982	87.00	UG/L #	86
19) METHYL ACETATE	2.050	43	50178	10.24	UG/L	95
20) T-BUTYL ALCOHOL	1.944	59	31873	105.26	UG/L #	84
21) ACRYLONITRILE	1.944	53	16473	10.58	UG/L	95
22) METHYLENE CHLORIDE	1.986	49	43814	9.84	UG/L	88
23) CARBON DISULFIDE	2.069	76	1212049	114.57	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.602	73	81242	8.91	UG/L	94
25) TRANS 1,2-DICHLOROETHENE	2.463	61	51770	10.17	UG/L	95
26) 1,1-DICHLOROETHANE	2.675	63	63890	10.08	UG/L	97
28) VINYL ACETATE	2.895	43	673681	111.54	UG/L	96
30) DI ISOPROYL ETHER	3.213	45	109740	10.28	UG/L	89
31) 2-BUTANONE	3.174	43	182833m	108.06	UG/L	
33) T-BUTYL ETHYL ETHER	3.617	59	88219	8.97	UG/L	95
34) CIS-1,2-DICHLOROETHENE	3.246	61	49971	10.27	UG/L	95
35) 2,2-DICHLOROPROPANE	3.514	77	42035	9.86	UG/L	100
36) ETHYL ACETATE	3.575	43	39510	12.04	UG/L #	94
37) BROMOCHLOROMETHANE	3.391	49	28842	10.90	UG/L #	80
38) TETRAHYDROFURAN	3.812	42	10355	10.42	UG/L #	84
40) CHLOROFORM	3.467	83	64467	9.83	UG/L	100
42) 1,1,1-TRICHLOROETHANE	4.161	97	50390	10.19	UG/L	97
43) CYCLOHEXANE	4.401	56	67691	10.01	UG/L	94
44) CARBON TETRACHLORIDE	4.496	117	44775	10.27	UG/L	99
45) 1,1-DICHLOROPROPENE	4.362	75	50552	10.08	UG/L	97
46) BENZENE	4.554	78	151108	9.93	UG/L	98
48) T-AMYL METHYL ETHER	4.805	73	79132	8.79	UG/L #	89
51) 1,2-DICHLOROETHANE	4.094	62	44006	9.67	UG/L #	69
53) TRICHLOROETHENE	5.182	95	38714	9.94	UG/L	97
54) METHYLCYCLOHEXANE	5.619	83	60357	9.75	UG/L	95
55) 1,2-DICHLOROPROPANE	5.134	63	39076	9.87	UG/L	93

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09002.D
 Acq On : 31 Mar 2023 8:08 am
 Operator :
 Sample : 8260STD 10PPB 2303196
 Misc : 1
 ALS Vial : 2 Sample Multiplier: 1

Inst : GCMSVOA5

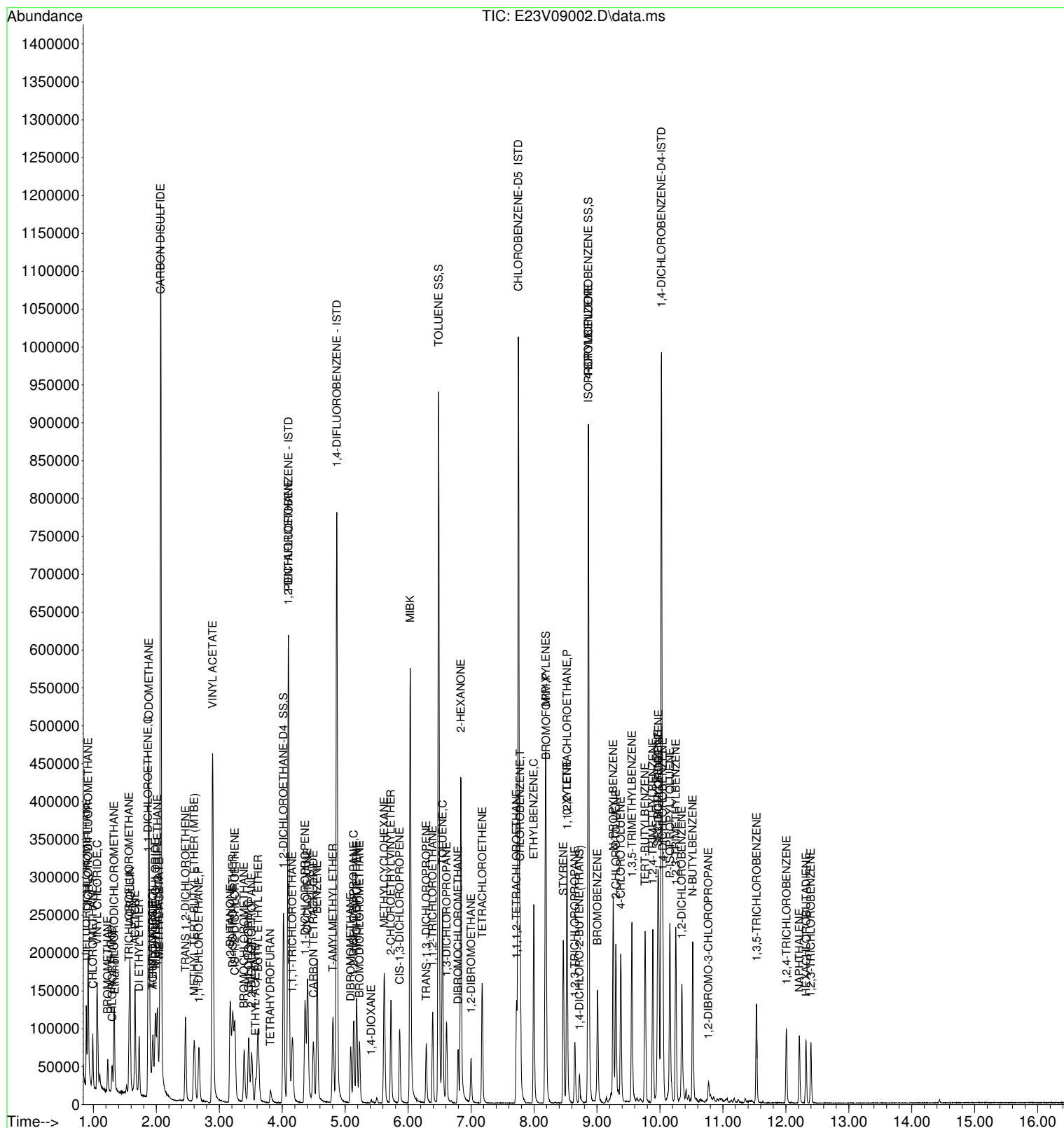
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 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
56) DIBROMOMETHANE	5.087	93	23289	10.41	UG/L	97
57) 1,4-DIOXANE	5.413	88	3382m	88.35	UG/L	
58) BROMODICHLOROMETHANE	5.229	83	43808	9.95	UG/L	97
59) 2-CHLOROETHYL VINYLETHYR	5.725	63	53415	23.94	UG/L	98
60) MIBK	6.032	43	349078	104.38	UG/L	96
61) CIS-1,3-DICHLOROPROPENE	5.865	75	49431	9.85	UG/L	94
62) TOLUENE	6.545	91	155192	10.04	UG/L	100
63) TRANS-1,3,-DICHLOROPRO...	6.289	75	36687	9.34	UG/L	97
65) 1,1,2-TRICHLOROETHANE	6.389	97	32744	10.46	UG/L	97
66) 2-HEXANONE	6.835	43	240719	101.40	UG/L	97
67) TETRACHLOROETHENE	7.175	166	41660	10.21	UG/L	99
68) 1,3-DICHLOROPROPANE	6.609	76	55278	10.05	UG/L	99
69) DIBROMOCHLOROMETHANE	6.793	129	33355	10.17	UG/L	99
70) 1,2-DIBROMOETHANE	7.000	107	33660	10.28	UG/L	100
73) CHLOROBENZENE	7.778	112	100618	10.75	UG/L	95
74) 1,1,1,2-TETRACHLOROETHANE	7.719	131	33008	10.73	UG/L #	92
75) ETHYLBENZENE	7.995	91	161801	10.38	UG/L	97
76) M/P-XYLENES	8.185	91	255055	21.04	UG/L	99
77) O-XYLENE	8.520	91	121969	10.34	UG/L	100
78) STYRENE	8.464	104	92286	10.44	UG/L	98
79) BROMOFORM	8.191	173	22641	10.86	UG/L	99
80) ISOPROPYLBENZENE	8.860	105	153253	10.26	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	42320	10.50	UG/L	99
83) 1,4-DICHLORO-2-BUTENE (...)	8.720	53	7114	8.38	UG/L #	78
84) BROMOBENZENE	9.008	77	58180	10.53	UG/L	92
85) 1,2,3-TRICHLOROPROPANE	8.648	75	31997	10.48	UG/L	94
86) N-PROPYLBENZENE	9.256	91	175091	10.42	UG/L	98
87) 2-CHLOROTOLUENE	9.298	91	98045	9.62	UG/L	100
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	114117	10.36	UG/L	99
89) 4-CHLOROTOLUENE	9.376	91	101779	10.20	UG/L	100
91) TERT-BUTYLBENZENE	9.763	119	97066	10.17	UG/L	100
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	108252	10.05	UG/L	97
93) SEC-BUTYLBENZENE	9.964	105	138971	10.36	UG/L	99
94) 1,3-DICHLOROBENZENE	9.978	146	66740	10.37	UG/L	99
95) P-ISOPROPYLTOLUENE	10.157	119	112910	10.25	UG/L	100
96) 1,4-DICHLOROBENZENE	10.045	146	65837	9.87	UG/L	98
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	110222	10.05	UG/L	96
98) N-BUTYLBENZENE	10.519	91	102719	10.36	UG/L	100
99) 1,2-DICHLOROBENZENE	10.346	146	57805	10.10	UG/L	98
100) 1,2-DIBROMO-3-CHLOROPR...	10.767	75	4657	9.48	UG/L	100
101) 1,3,5-TRICHLOROBENZENE	11.534	180	38264	9.91	UG/L	99
102) 1,2,4-TRICHLOROBENZENE	12.008	180	28749	9.76	UG/L	95
103) HEXACHLOROBUTADIENE	12.321	225	15842	10.05	UG/L	94
104) NAPHTHALENE	12.215	128	62711	9.63	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.396	180	23532	10.11	UG/L	99

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

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Quant Time: Mar 31 11:22:48 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration



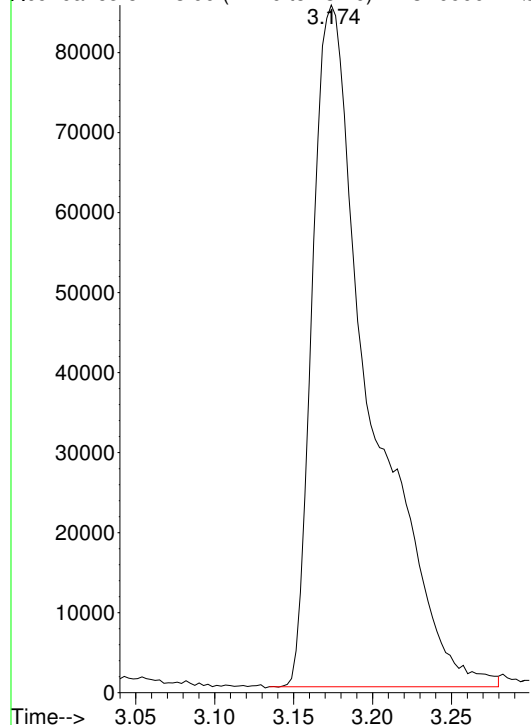
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Acq On : 31 Mar 2023 8:08 am
Operator :
Sample : 8260STD 10PPB 2303196
Misc : 1

Quant Time : Fri Mar 31 11:22:48 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V09002.D



Original Int. Results

RT : 3.17
Area : 218207
Amount: 128.966

Manual Int. Results

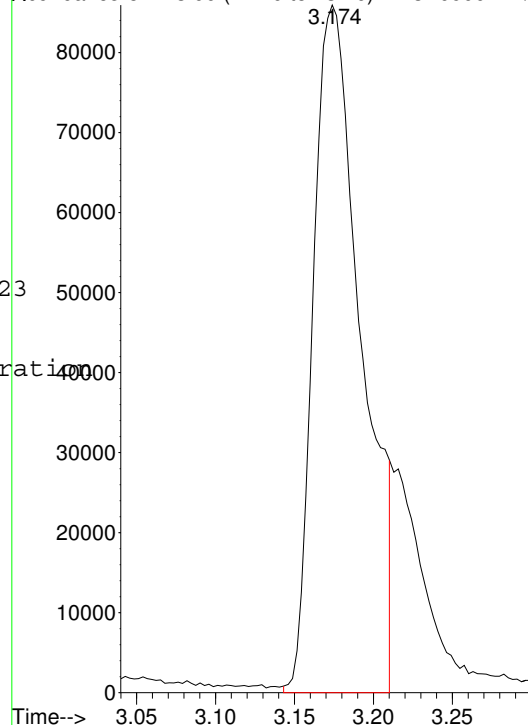
Fri Mar 31 11:22:43 2023

MIuser: eeh
Reason: Incoret Integration
RT : 3.17
Area : 182833
Amount: 108.059

Manual Integration

2-BUTANONE

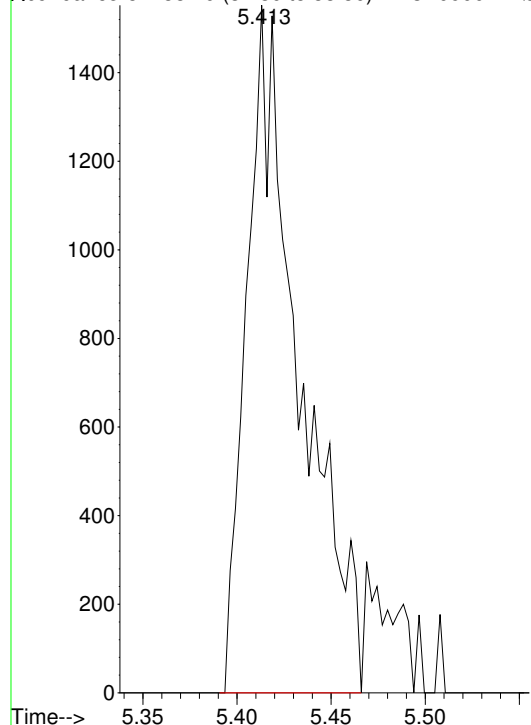
Abundance on 43.00 (42.70 to 43.70): E23V09002.D



Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V09002.D



Original Int. Results

RT : 5.41
Area : 3026
Amount: 79.0537

Manual Int. Results

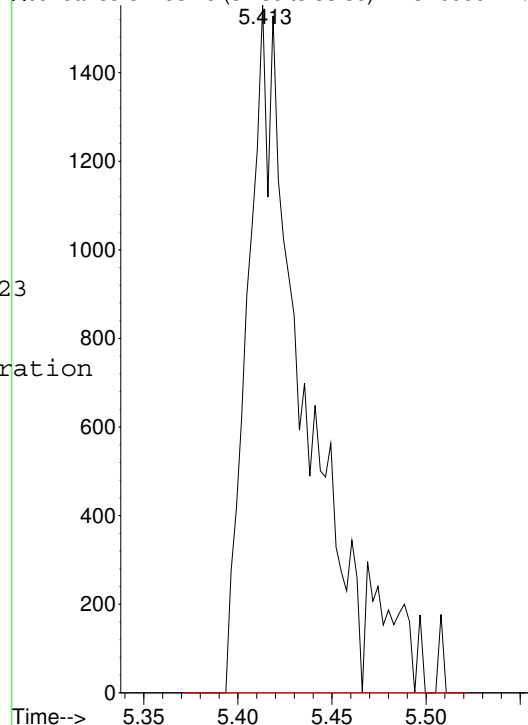
Fri Mar 31 11:22:48 2023

MIuser: eeh
Reason: Incoret Integration
RT : 5.41
Area : 3382
Amount: 88.3541

Manual Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V09002.D



8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

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SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Sequence:	S085366	Instrument:	GCMSVOA5
		Calibration:	2300183

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S085366-CCV1)			<i>Lab File ID: E23V09002.D</i>			<i>Analyzed: 03/31/23 08:08</i>			
Pentafluorobenzene	379065	4.1	338948	4.1	112	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	572602	4.866	511790	4.866	112	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	264501	7.75	246167	7.753	107	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	233544	10.023	216820	10.023	108	50 - 200	0.0000	+/-0.50	
LCS (B335720-BS1)			<i>Lab File ID: E23V09003.D</i>			<i>Analyzed: 03/31/23 08:35</i>			
Pentafluorobenzene	375911	4.097	379065	4.1	99	50 - 200	-0.0030	+/-0.50	
1,4-Difluorobenzene	563851	4.864	572602	4.866	98	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	260120	7.75	264501	7.75	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	232174	10.02	233544	10.023	99	50 - 200	-0.0030	+/-0.50	
LCS Dup (B335720-BSD1)			<i>Lab File ID: E23V09004.D</i>			<i>Analyzed: 03/31/23 09:03</i>			
Pentafluorobenzene	371077	4.097	379065	4.1	98	50 - 200	-0.0030	+/-0.50	
1,4-Difluorobenzene	564272	4.864	572602	4.866	99	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	257371	7.753	264501	7.75	97	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	228135	10.02	233544	10.023	98	50 - 200	-0.0030	+/-0.50	
Blank (B335720-BLK1)			<i>Lab File ID: E23V09006.D</i>			<i>Analyzed: 03/31/23 09:58</i>			
Pentafluorobenzene	389442	4.097	379065	4.1	103	50 - 200	-0.0030	+/-0.50	
1,4-Difluorobenzene	582638	4.866	572602	4.866	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	265627	7.753	264501	7.75	100	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	231449	10.023	233544	10.023	99	50 - 200	0.0000	+/-0.50	
FieldBlank_20230328 (23C3284-06)			<i>Lab File ID: E23V09008.D</i>			<i>Analyzed: 03/31/23 10:53</i>			
Pentafluorobenzene	380329	4.097	379065	4.1	100	50 - 200	-0.0030	+/-0.50	
1,4-Difluorobenzene	572102	4.866	572602	4.866	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	264013	7.75	264501	7.75	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	228841	10.023	233544	10.023	98	50 - 200	0.0000	+/-0.50	
TripBlank_20230328 (23C3284-07)			<i>Lab File ID: E23V09009.D</i>			<i>Analyzed: 03/31/23 11:20</i>			
Pentafluorobenzene	379519	4.099	379065	4.1	100	50 - 200	-0.0010	+/-0.50	
1,4-Difluorobenzene	570002	4.866	572602	4.866	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	260706	7.753	264501	7.75	99	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	229336	10.02	233544	10.023	98	50 - 200	-0.0030	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

286

SW-846 8260D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Sequence:	S085366	Instrument:	GCMSVOA5
		Calibration:	2300183

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW-15S (23C3284-01)			<i>Lab File ID: E23V09011.D</i>			<i>Analyzed: 03/31/23 12:14</i>			
Pentafluorobenzene	379043	4.097	379065	4.1	100	50 - 200	-0.0030	+/-0.50	
1,4-Difluorobenzene	562123	4.864	572602	4.866	98	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	260711	7.75	264501	7.75	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	222854	10.023	233544	10.023	95	50 - 200	0.0000	+/-0.50	
MW-18S (23C3284-02)			<i>Lab File ID: E23V09012.D</i>			<i>Analyzed: 03/31/23 12:42</i>			
Pentafluorobenzene	376141	4.097	379065	4.1	99	50 - 200	-0.0030	+/-0.50	
1,4-Difluorobenzene	559456	4.866	572602	4.866	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	255050	7.753	264501	7.75	96	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	221369	10.023	233544	10.023	95	50 - 200	0.0000	+/-0.50	
MW-3S (23C3284-03)			<i>Lab File ID: E23V09013.D</i>			<i>Analyzed: 03/31/23 13:09</i>			
Pentafluorobenzene	368355	4.1	379065	4.1	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	562277	4.866	572602	4.866	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	261384	7.75	264501	7.75	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	221249	10.023	233544	10.023	95	50 - 200	0.0000	+/-0.50	
MW-17S (23C3284-04)			<i>Lab File ID: E23V09014.D</i>			<i>Analyzed: 03/31/23 13:37</i>			
Pentafluorobenzene	371083	4.1	379065	4.1	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	551974	4.866	572602	4.866	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	257684	7.753	264501	7.75	97	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	224338	10.023	233544	10.023	96	50 - 200	0.0000	+/-0.50	
MW-19S (23C3284-05)			<i>Lab File ID: E23V09015.D</i>			<i>Analyzed: 03/31/23 14:04</i>			
Pentafluorobenzene	365279	4.097	379065	4.1	96	50 - 200	-0.0030	+/-0.50	
1,4-Difluorobenzene	539847	4.866	572602	4.866	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	250278	7.75	264501	7.75	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	218780	10.023	233544	10.023	94	50 - 200	0.0000	+/-0.50	
MW-X (23C3284-08)			<i>Lab File ID: E23V09016.D</i>			<i>Analyzed: 03/31/23 14:31</i>			
Pentafluorobenzene	372130	4.097	379065	4.1	98	50 - 200	-0.0030	+/-0.50	
1,4-Difluorobenzene	567834	4.866	572602	4.866	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	262451	7.753	264501	7.75	99	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	223687	10.02	233544	10.023	96	50 - 200	-0.0030	+/-0.50	

8 - FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

287

SW-846 8260D

Laboratory: Pace New England Work Order: 23C3284
 Client: NYDEC_Environmental Assessment & Remediation Project: Genzale Plating Co. - CO 144183
 Sequence: S085366 Instrument: GCMSVOA5
 Calibration: 2300183

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B335720-MS1)			<i>Lab File ID: E23V09027.D</i>			<i>Analyzed: 03/31/23 19:29</i>			
Pentafluorobenzene	403562	4.102	379065	4.1	106	50 - 200	0.0020	+/-0.50	
1,4-Difluorobenzene	594622	4.869	572602	4.866	104	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	276922	7.753	264501	7.75	105	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	246672	10.023	233544	10.023	106	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B335720-MSD1)			<i>Lab File ID: E23V09028.D</i>			<i>Analyzed: 03/31/23 19:57</i>			
Pentafluorobenzene	405160	4.1	379065	4.1	107	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	593919	4.869	572602	4.866	104	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	270592	7.753	264501	7.75	102	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	240026	10.023	233544	10.023	103	50 - 200	0.0000	+/-0.50	

QC DATA

1 - FORM I

ANALYSIS DATA SHEET

289

Blank

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remed	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Laboratory ID:	B335720-BLK1
		File ID:	E23V09006.D
Sampled:		Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 09:58
Solids:		Preparation:	SW-846 5030B
		Dilution:	
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5
Column:	1		

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
107-13-1	Acrylonitrile		0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.13	0.50	
71-43-2	Benzene		0.18	1.0	
108-86-1	Bromobenzene		0.15	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	V-05
78-93-3	2-Butanone (MEK)		1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)		4.3	20	
104-51-8	n-Butylbenzene		0.15	1.0	
135-98-8	sec-Butylbenzene		0.13	1.0	
98-06-6	tert-Butylbenzene		0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.15	0.50	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
95-49-8	2-Chlorotoluene		0.15	1.0	
106-43-4	4-Chlorotoluene		0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
74-95-3	Dibromomethane		0.32	1.0	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

290

Blank

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remed	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Laboratory ID:	B335720-BLK1
		File ID:	E23V09006.D
Sampled:		Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 09:58
Solids:		Preparation:	SW-846 5030B
		Dilution:	
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5
Column:	1		

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene		1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
142-28-9	1,3-Dichloropropane		0.12	0.50	
594-20-7	2,2-Dichloropropane		0.35	1.0	
563-58-6	1,1-Dichloropropene		0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
60-29-7	Diethyl Ether		0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)		0.20	0.50	
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
87-68-3	Hexachlorobutadiene		0.47	0.60	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.13	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
91-20-3	Naphthalene		0.38	2.0	
103-65-1	n-Propylbenzene		0.12	1.0	
100-42-5	Styrene		0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane		0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

291

Blank

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remed	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Laboratory ID:	B335720-BLK1
		File ID:	E23V09006.D
Sampled:		Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 09:58
Solids:		Preparation:	SW-846 5030B
		Dilution:	
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5
Column:	1		

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
109-99-9	Tetrahydrofuran		0.49	10	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene		0.21	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
96-18-4	1,2,3-Trichloropropane		0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.15	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
108383/106423	m+p Xylene		0.49	2.0	
95-47-6	o-Xylene		0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09006.D
 Acq On : 31 Mar 2023 9:58 am
 Operator :
 Sample : B0-BLK1
 Misc : 1
 ALS Vial : 6 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Mar 31 11:26:09 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.097	168	389442	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.866	114	582638	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	265627	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	231449	30.00	UG/L	0.00

System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4	SS	4.019	65	158143	24.51 UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.04%
50) TOLUENE	SS	6.484	98	550903	24.57 UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.28%
72) 4-BROMOFLUOROBENZENE	SS	8.862	95	180806	24.39 UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.56%

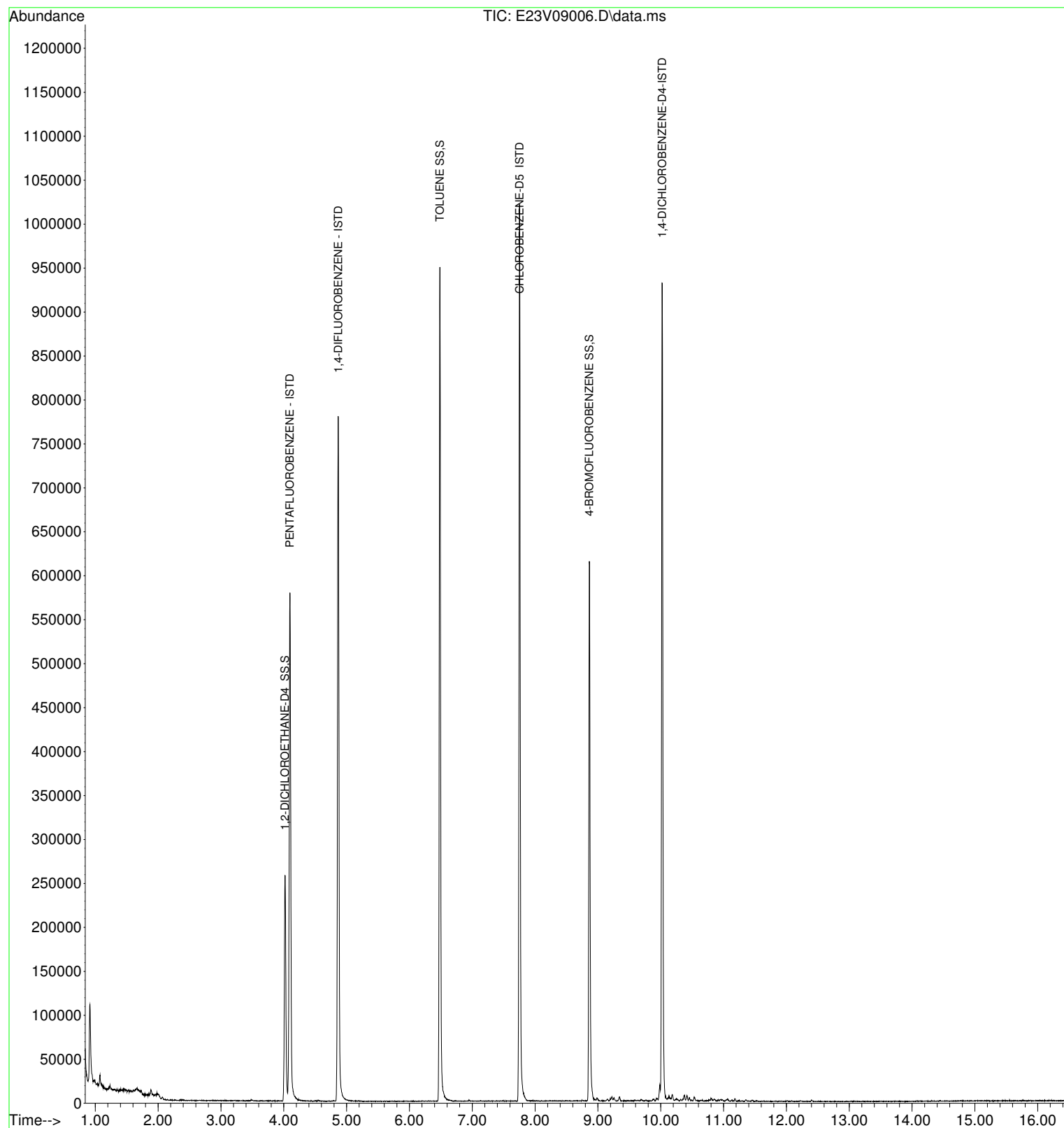
Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09006.D
Acq On : 31 Mar 2023 9:58 am
Operator :
Sample : B0-BLK1
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Mar 31 11:26:09 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration



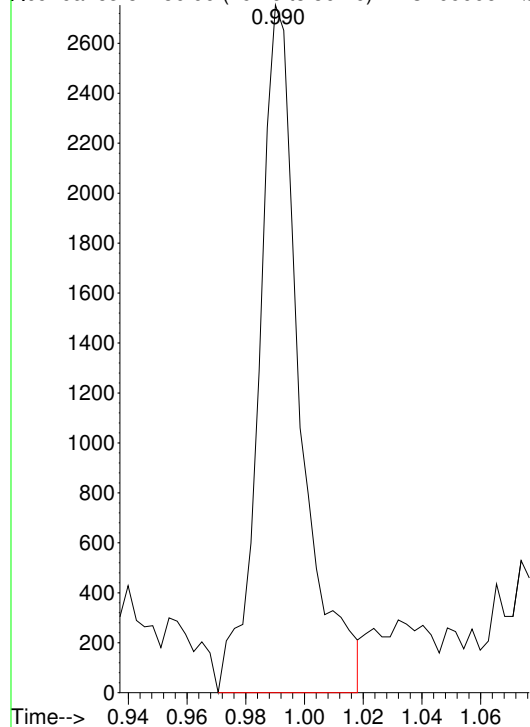
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Data File : E23V09006.D
Acq On : 31 Mar 2023 9:58 am
Operator :
Sample : B0-BLK1
Misc : 1

Quant Time : Fri Mar 31 11:26:09 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

CHLOROMETHANE

Abundance on 50.00 (49.70 to 50.70): E23V09006.D



Original Int. Results

RT : 0.99
Area : 2663
Amount: 0.581121

Manual Int. Results

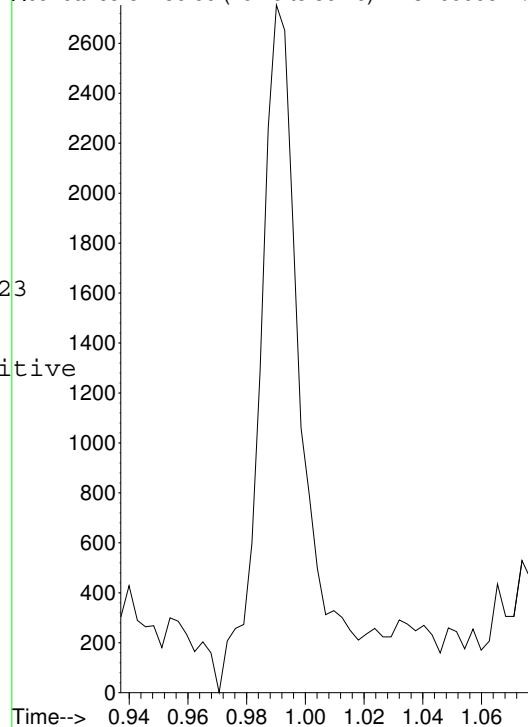
Fri Mar 31 11:25:41 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

CHLOROMETHANE

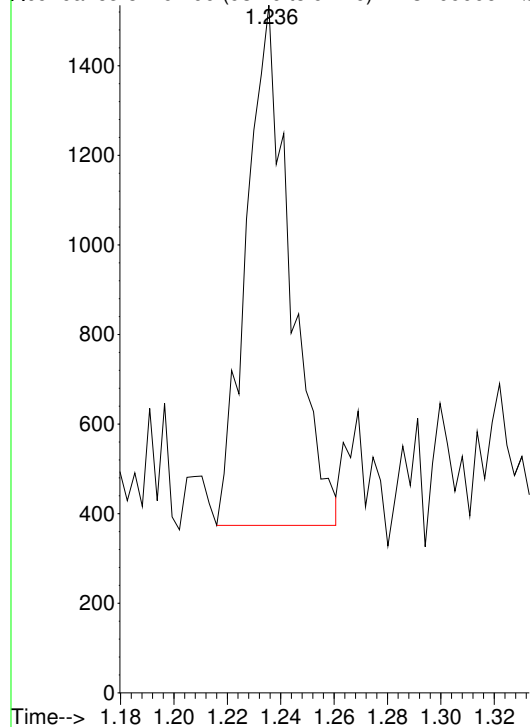
Abundance on 50.00 (49.70 to 50.70): E23V09006.D



Original Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09006.D



Original Int. Results

RT : 1.24
Area : 1321
Amount: 0.508909

Manual Int. Results

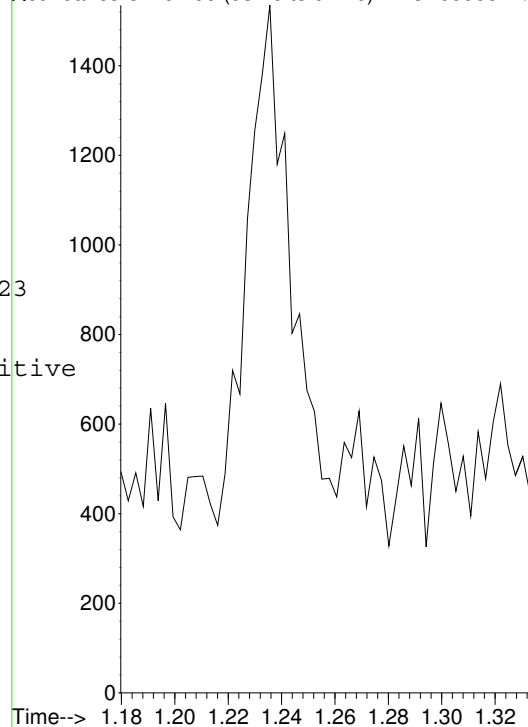
Fri Mar 31 11:25:43 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

BROMOMETHANE

Abundance on 94.00 (93.70 to 94.70): E23V09006.D



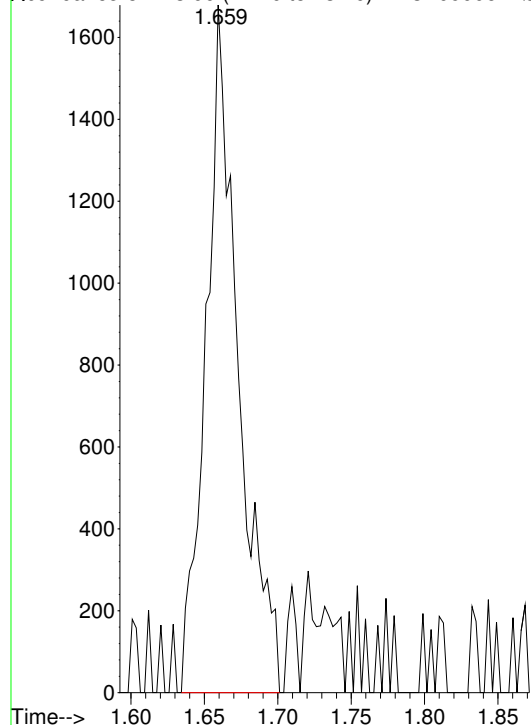
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09006.D
Acq On : 31 Mar 2023 9:58 am
Operator :
Sample : B0-BLK1
Misc : 1

Quant Time : Fri Mar 31 11:26:09 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

ACETONE

Abundance on 43.00 (42.70 to 43.70): E23V09006.D



Original Int. Results

RT : 1.66
Area : 2577
Amount: 2.36529

Manual Int. Results

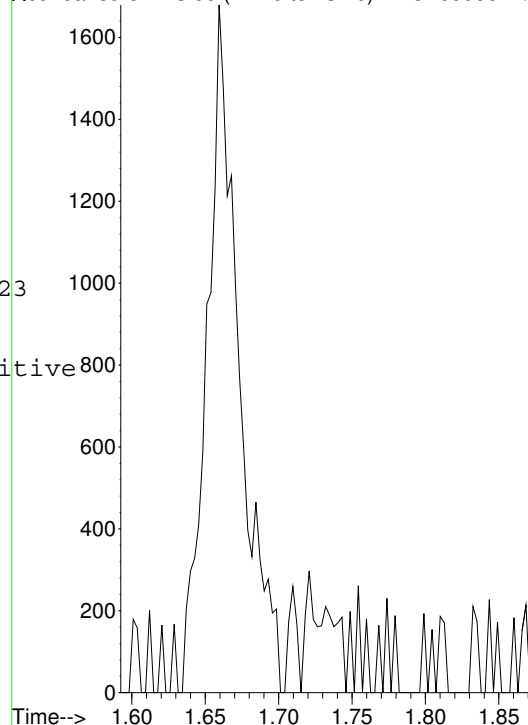
Fri Mar 31 11:25:47 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

ACETONE

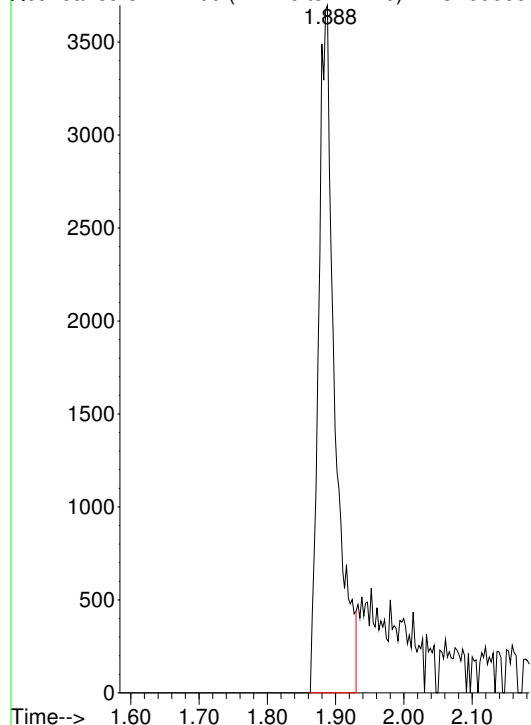
Abundance on 43.00 (42.70 to 43.70): E23V09006.D



Original Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09006.D



Original Int. Results

RT : 1.89
Area : 6113
Amount: 1.24139

Manual Int. Results

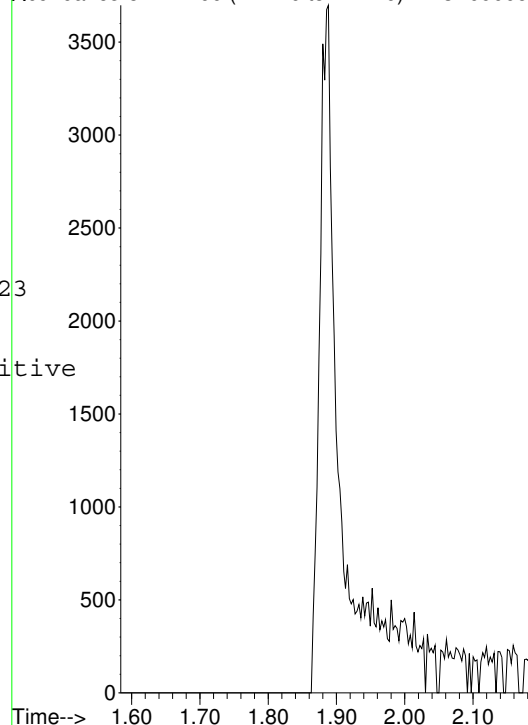
Fri Mar 31 11:25:49 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

IODOMETHANE

Abundance on 142.00 (141.70 to 142.70): E23V09006.D

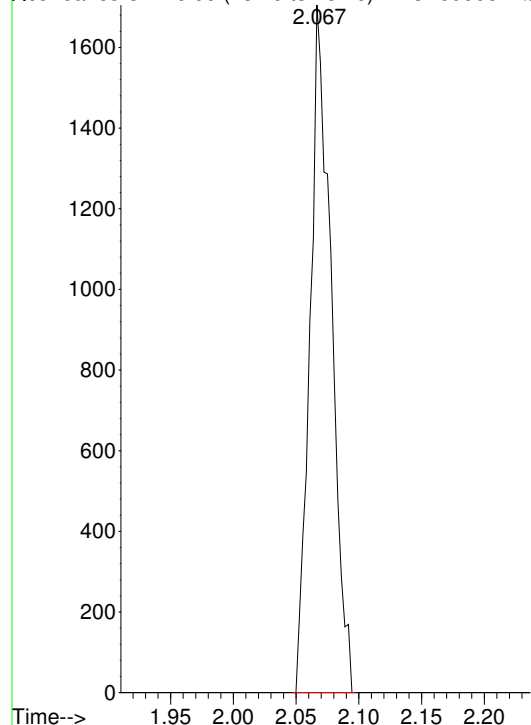


Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09006.D
Acq On : 31 Mar 2023 9:58 am
Operator :
Sample : B0-BLK1
Misc : 1

Quant Time : Fri Mar 31 11:26:09 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration
CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09006.D



Original Int. Results

RT : 2.07
Area : 2003
Amount: 0.184296

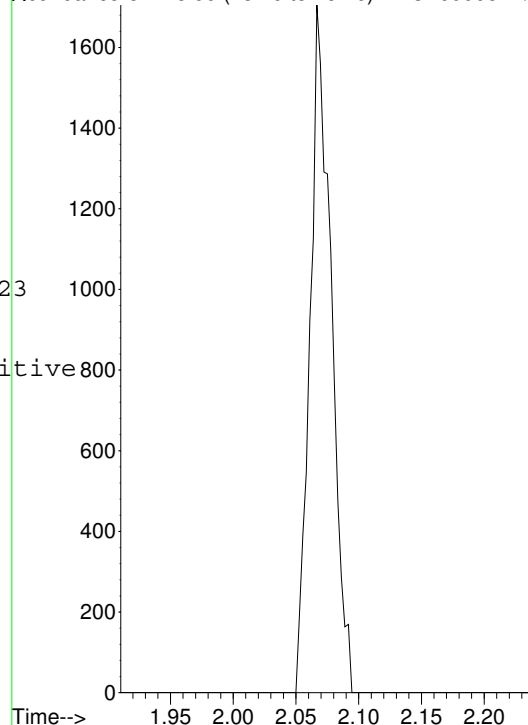
Manual Int. Results

Fri Mar 31 11:25:52 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

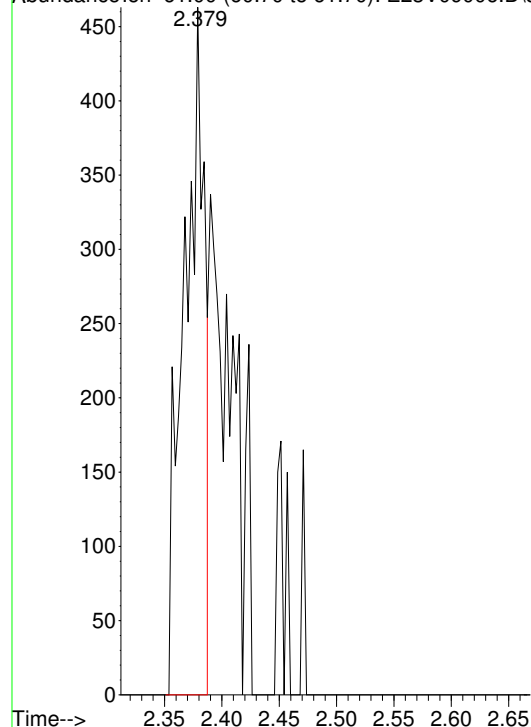
Manual Integration
CARBON DISULFIDE

Abundance on 76.00 (75.70 to 76.70): E23V09006.D



Original Integration
TRANS 1,2-DICHLOROETHENE

Abundance on 61.00 (60.70 to 61.70): E23V09006.D



Original Int. Results

RT : 2.38
Area : 569
Amount: 0.108803

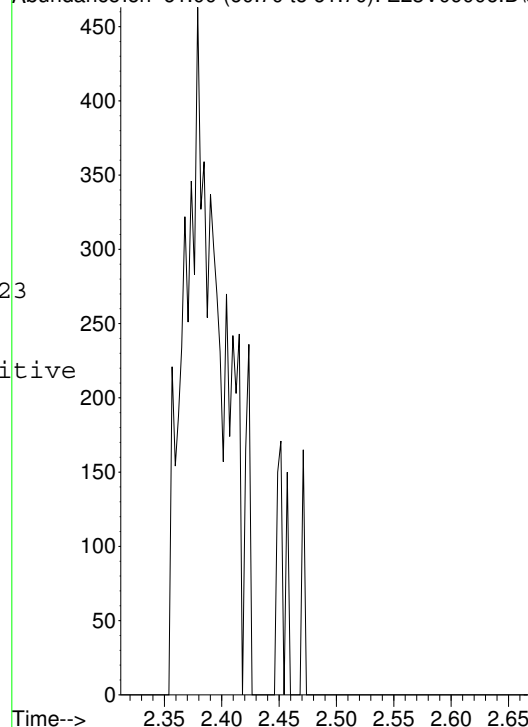
Manual Int. Results

Fri Mar 31 11:25:54 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
TRANS 1,2-DICHLOROETHENE

Abundance on 61.00 (60.70 to 61.70): E23V09006.D



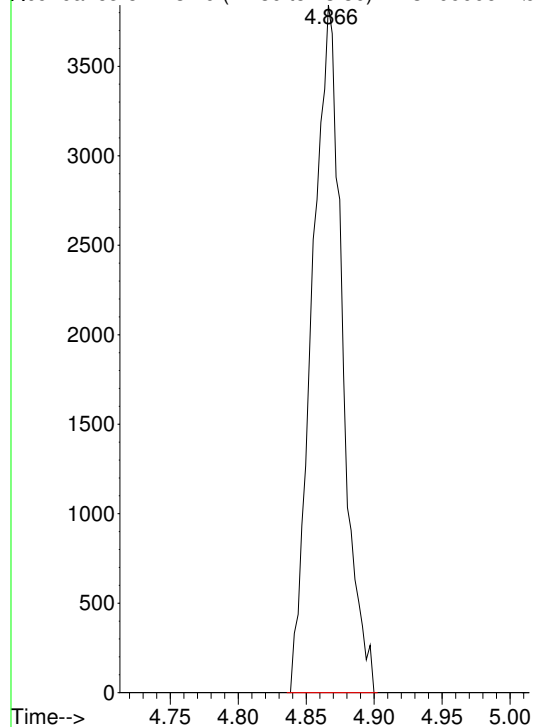
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09006.D
Acq On : 31 Mar 2023 9:58 am
Operator :
Sample : B0-BLK1
Misc : 1

Quant Time : Fri Mar 31 11:26:09 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

T-AMYLMETHYL ETHER

Abundance on 73.10 (72.80 to 73.80): E23V09006.D



Original Int. Results

RT : 4.87
Area : 5947
Amount: 0.642785

Manual Int. Results

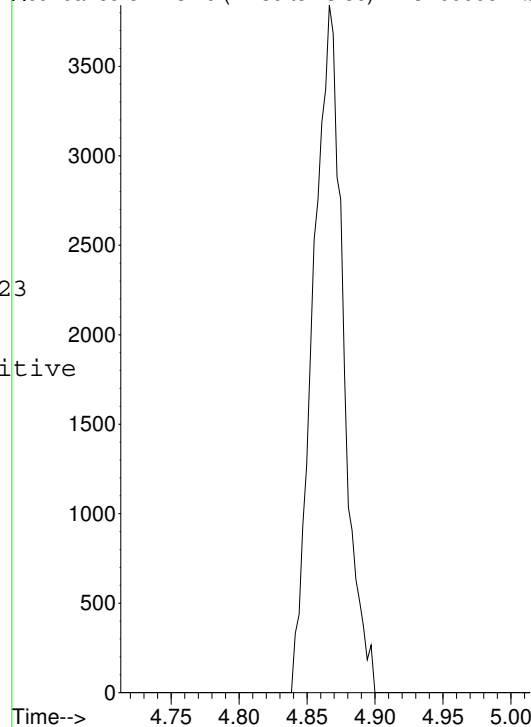
Fri Mar 31 11:25:58 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration

T-AMYLMETHYL ETHER

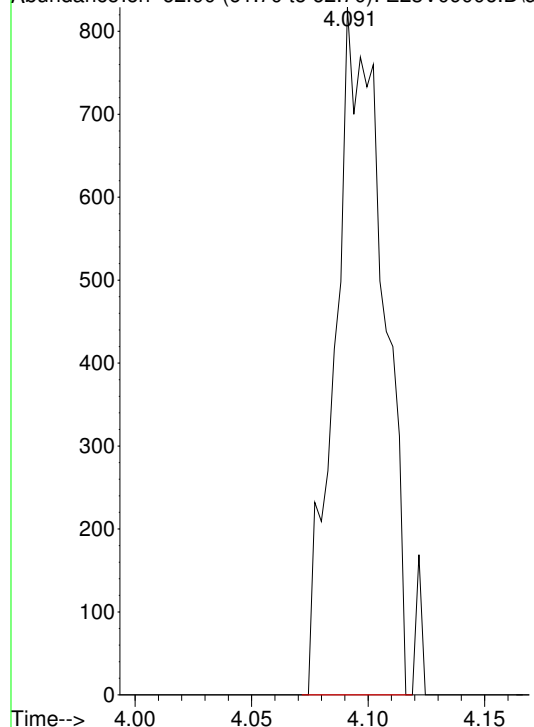
Abundance on 73.10 (72.80 to 73.80): E23V09006.D



Original Integration

1,2-DICHLOROETHANE

Abundance on 62.00 (61.70 to 62.70): E23V09006.D



Original Int. Results

RT : 4.09
Area : 1185
Amount: 0.255795

Manual Int. Results

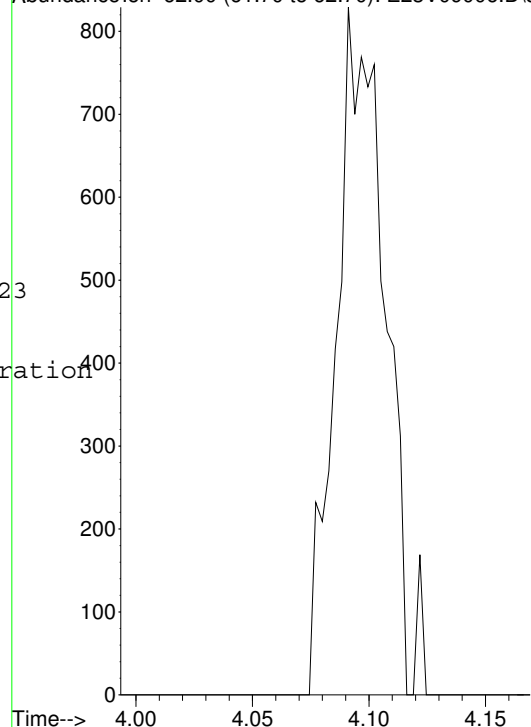
Fri Mar 31 11:26:01 2023

MIuser: eeh
Reason: Incoret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration

1,2-DICHLOROETHANE

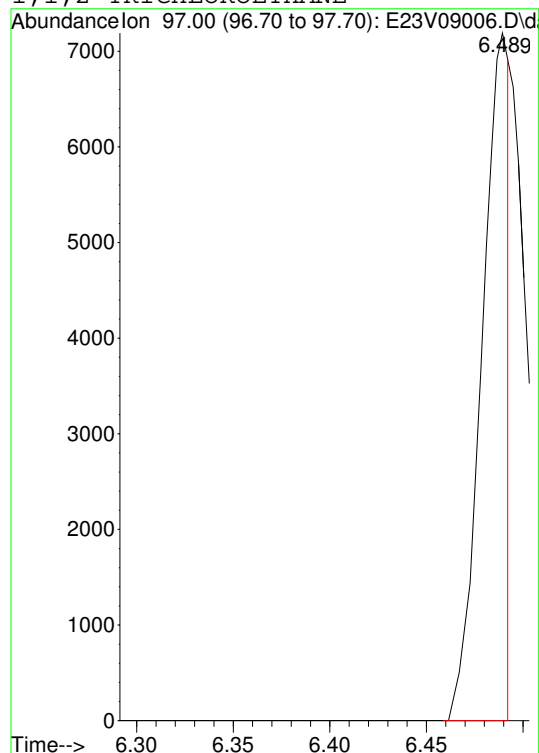
Abundance on 62.00 (61.70 to 62.70): E23V09006.D



Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09006.D
Acq On : 31 Mar 2023 9:58 am
Operator :
Sample : B0-BLK1
Misc : 1

Quant Time : Fri Mar 31 11:26:09 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration
1,1,2-TRICHLOROETHANE



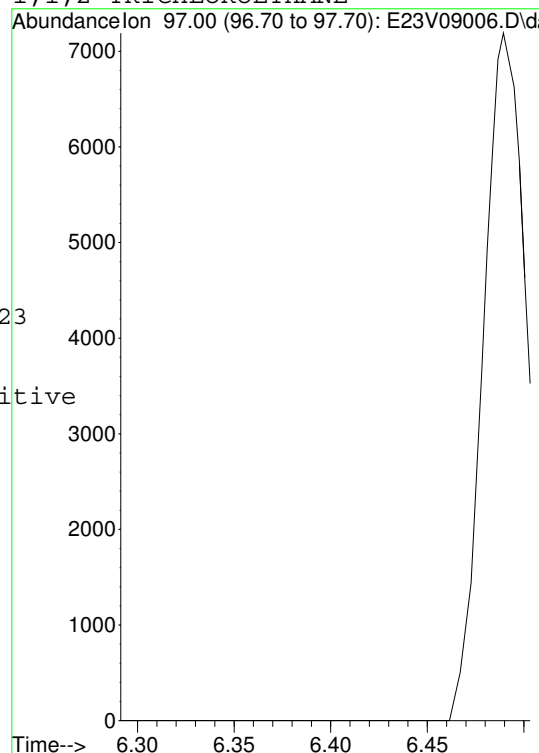
Original Int. Results

RT : 6.49
Area : 6905
Amount: 2.16772

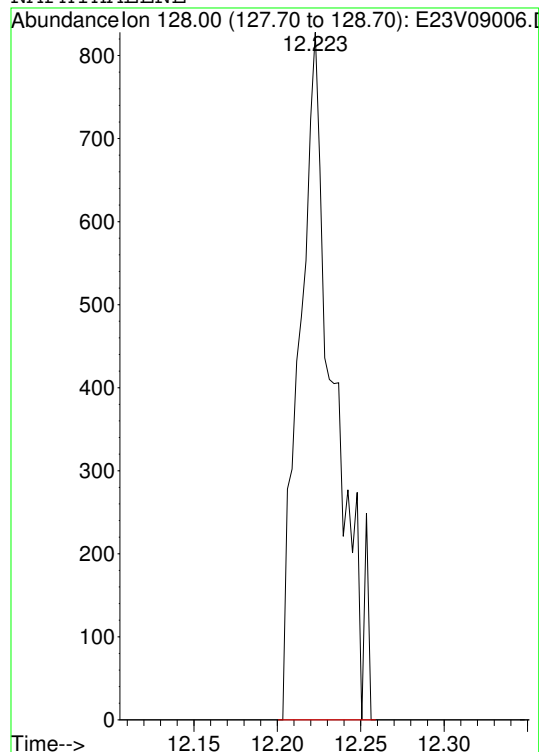
Manual Int. Results

Fri Mar 31 11:26:05 2023
MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,1,2-TRICHLOROETHANE



Original Integration
NAPHTHALENE



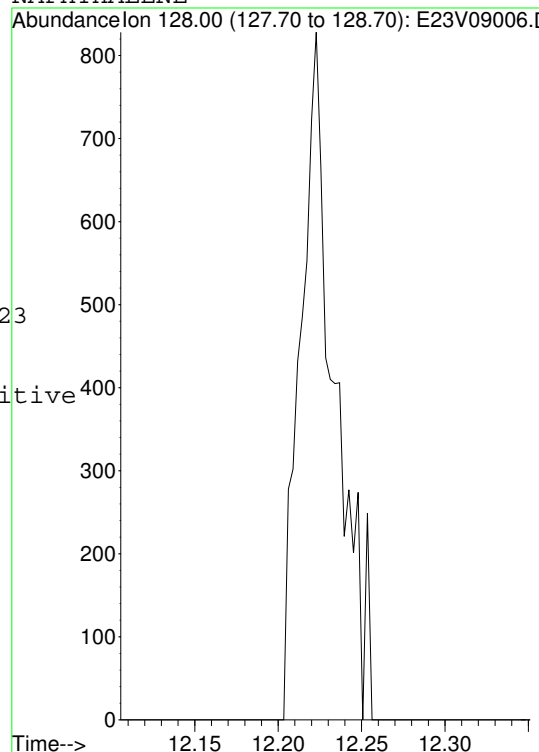
Original Int. Results

RT : 12.22
Area : 1195
Amount: 0.185075

Manual Int. Results

Fri Mar 31 11:26:08 2023
MIuser: eeh
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
NAPHTHALENE



1 - FORM I

ANALYSIS DATA SHEET

LCS

299

Laboratory: Pace New England Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183

Matrix: Water Laboratory ID: B335720-BS1 File ID: E23V09003.D

Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 08:35

Solids: Preparation: SW-846 5030B Dilution:

Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5

Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	106	2.0	50	
107-13-1	Acrylonitrile	10.5	0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)	8.00	0.13	0.50	
71-43-2	Benzene	9.79	0.18	1.0	
108-86-1	Bromobenzene	10.1	0.15	1.0	
74-97-5	Bromochloromethane	10.7	0.28	1.0	
75-27-4	Bromodichloromethane	9.73	0.16	0.50	
75-25-2	Bromoform	10.4	0.41	1.0	
74-83-9	Bromomethane	7.82	1.3	2.0	V-05
78-93-3	2-Butanone (MEK)	103	1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)	104	4.3	20	
104-51-8	n-Butylbenzene	10.8	0.15	1.0	
135-98-8	sec-Butylbenzene	10.6	0.13	1.0	
98-06-6	tert-Butylbenzene	10.4	0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)	8.30	0.15	0.50	
75-15-0	Carbon Disulfide	118	1.6	5.0	
56-23-5	Carbon Tetrachloride	10.4	0.16	5.0	
108-90-7	Chlorobenzene	10.7	0.12	1.0	
124-48-1	Chlorodibromomethane	9.90	0.20	0.50	
75-00-3	Chloroethane	9.01	0.34	2.0	
67-66-3	Chloroform	9.85	0.14	2.0	
74-87-3	Chloromethane	10.8	0.50	2.0	
95-49-8	2-Chlorotoluene	9.68	0.15	1.0	
106-43-4	4-Chlorotoluene	10.6	0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	9.48	0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)	10.2	0.16	0.50	
74-95-3	Dibromomethane	10.0	0.32	1.0	
95-50-1	1,2-Dichlorobenzene	10.2	0.13	1.0	
541-73-1	1,3-Dichlorobenzene	10.3	0.14	1.0	
106-46-7	1,4-Dichlorobenzene	10.0	0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

LCS

300

Laboratory: Pace New England Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183

Matrix: Water Laboratory ID: B335720-BS1 File ID: E23V09003.D

Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 08:35

Solids: Preparation: SW-846 5030B Dilution:

Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5

Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene	7.96	1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)	10.5	0.16	2.0	
75-34-3	1,1-Dichloroethane	9.96	0.14	1.0	
107-06-2	1,2-Dichloroethane	9.46	0.30	1.0	
75-35-4	1,1-Dichloroethylene	11.6	0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	10.4	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene	9.97	0.17	1.0	
78-87-5	1,2-Dichloropropane	9.81	0.19	1.0	
142-28-9	1,3-Dichloropropane	9.90	0.12	0.50	
594-20-7	2,2-Dichloropropane	9.20	0.35	1.0	
563-58-6	1,1-Dichloropropene	10.6	0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene	9.74	0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene	9.04	0.14	0.50	
60-29-7	Diethyl Ether	10.5	0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)	10.0	0.20	0.50	
123-91-1	1,4-Dioxane	84.8	18	50	
100-41-4	Ethylbenzene	10.5	0.22	1.0	
87-68-3	Hexachlorobutadiene	10.5	0.47	0.60	
591-78-6	2-Hexanone (MBK)	104	1.2	10	
98-82-8	Isopropylbenzene (Cumene)	10.6	0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)	10.4	0.13	1.0	
79-20-9	Methyl Acetate	10.8	0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	8.15	0.17	1.0	
108-87-2	Methyl Cyclohexane	10.1	0.16	1.0	
75-09-2	Methylene Chloride	9.65	0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	104	1.3	10	
91-20-3	Naphthalene	9.94	0.38	2.0	
103-65-1	n-Propylbenzene	10.7	0.12	1.0	
100-42-5	Styrene	10.4	0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	10.8	0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

LCS

301

Laboratory: Pace New England Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183

Matrix: Water Laboratory ID: B335720-BS1 File ID: E23V09003.D

Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 08:35

Solids: Preparation: SW-846 5030B Dilution:

Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5

Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	10.6	0.14	0.50	
127-18-4	Tetrachloroethylene	10.4	0.17	1.0	
109-99-9	Tetrahydrofuran	9.85	0.49	10	J
108-88-3	Toluene	10.1	0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene	10.4	0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene	9.98	0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene	10.4	0.21	1.0	
71-55-6	1,1,1-Trichloroethane	10.2	0.15	1.0	
79-00-5	1,1,2-Trichloroethane	10.1	0.19	1.0	
79-01-6	Trichloroethylene	10.4	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)	11.6	0.15	2.0	
96-18-4	1,2,3-Trichloropropane	10.4	0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 11)	11.4	0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene	10.1	0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene	10.5	0.15	1.0	
75-01-4	Vinyl Chloride	13.5	0.24	2.0	V-20
108383/106423	m+p Xylene	21.1	0.49	2.0	
95-47-6	o-Xylene	10.5	0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09003.D
 Acq On : 31 Mar 2023 8:35 am
 Operator :
 Sample : B0-BS1
 Misc : 1
 ALS Vial : 3 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Mar 31 11:24:01 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.097	168	375911	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.864	114	563851	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.750	82	260120	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.020	152	232174	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.019	65	153489	24.64	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.56%
50) TOLUENE SS	6.484	98	532813	24.56	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.24%
72) 4-BROMOFLUOROBENZENE SS	8.863	95	181662	25.02	UG/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.08%
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.918	85	46609	10.46	UG/L	99
4) DIFLUOROCHLOROMETHANE	0.887	51	54446	10.70	UG/L	93
5) CHLOROMETHANE	0.990	50	47947	10.84	UG/L	99
6) VINYL CHLORIDE	1.063	62	37494	13.51	UG/L	98
7) BROMOMETHANE	1.227	94	19606	7.82	UG/L	98
8) CHLOROETHANE	1.297	64	20193	9.01	UG/L	96
9) Ethanol	1.333	45	7154m	137.06	UG/L	
10) FLUORODICHLOROMETHANE	1.331	67	76386	11.66	UG/L	100
11) TRICHLOROFLUOROMETHANE	1.568	101	60079	11.65	UG/L	99
12) DI ETHYL ETHER	1.724	59	26729	10.47	UG/L	93
13) ACROLEIN	1.581	56	84677	108.82	UG/L	100
14) ACETONE	1.660	43	111063	105.61	UG/L	95
15) 1,1-DICHLOROETHENE	1.869	61	57526	11.65	UG/L	97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.017	101	43463	11.37	UG/L	94
17) IODOMETHANE	1.883	142	372218	78.31	UG/L	87
19) METHYL ACETATE	2.047	43	52636	10.84	UG/L	97
20) T-BUTYL ALCOHOL	1.944	59	31257	104.09	UG/L #	78
21) ACRYLONITRILE	1.941	53	16198	10.49	UG/L	97
22) METHYLENE CHLORIDE	1.986	49	42625	9.65	UG/L	87
23) CARBON DISULFIDE	2.070	76	1234307	117.66	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.599	73	73690	8.15	UG/L	94
25) TRANS 1,2-DICHLOROETHENE	2.463	61	50353	9.97	UG/L	95
26) 1,1-DICHLOROETHANE	2.675	63	62595	9.96	UG/L	99
28) VINYL ACETATE	2.892	43	653612	109.12	UG/L	96
30) DI ISOPROYL ETHER	3.213	45	106202	10.03	UG/L	91
31) 2-BUTANONE	3.174	43	173512m	103.41	UG/L	
33) T-BUTYL ETHYL ETHER	3.612	59	80993	8.30	UG/L	95
34) CIS-1,2-DICHLOROETHENE	3.246	61	50260	10.41	UG/L	93
35) 2,2-DICHLOROPROPANE	3.514	77	38905	9.20	UG/L	99
36) ETHYL ACETATE	3.575	43	32899	10.11	UG/L	97
37) BROMOCHLOROMETHANE	3.394	49	28017	10.68	UG/L #	78
38) TETRAHYDROFURAN	3.812	42	9706	9.85	UG/L	90
40) CHLOROFORM	3.464	83	64091	9.85	UG/L	99
42) 1,1,1-TRICHLOROETHANE	4.164	97	49911	10.18	UG/L	96
43) CYCLOHEXANE	4.401	56	68674	10.24	UG/L	92
44) CARBON TETRACHLORIDE	4.496	117	44932	10.39	UG/L	100
45) 1,1-DICHLOROPROPENE	4.362	75	52477	10.55	UG/L	96
46) BENZENE	4.554	78	147707	9.79	UG/L	99
48) T-AMYLMETHYL ETHER	4.805	73	71461	8.00	UG/L #	89
51) 1,2-DICHLOROETHANE	4.097	62	42432	9.46	UG/L #	64
53) TRICHLOROETHENE	5.179	95	39776	10.37	UG/L	94
54) METHYLCYCLOHEXANE	5.619	83	61799	10.14	UG/L	95
55) 1,2-DICHLOROPROPANE	5.134	63	38237	9.81	UG/L	93

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09003.D
 Acq On : 31 Mar 2023 8:35 am
 Operator :
 Sample : B0-BS1
 Misc : 1
 ALS Vial : 3 Sample Multiplier: 1

Inst : GCMSVOA5

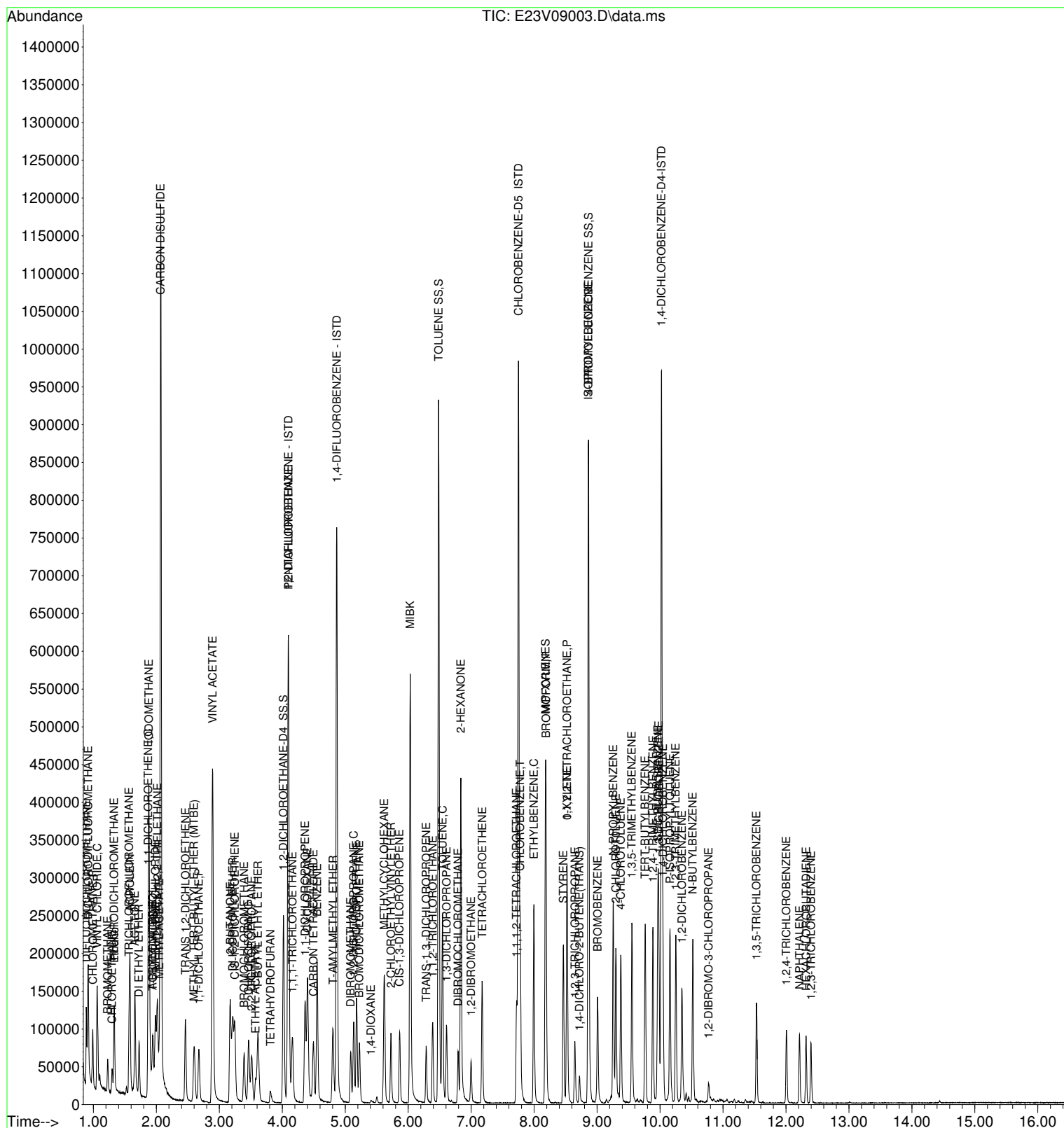
Quant Time: Mar 31 11:24:01 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
56) DIBROMOMETHANE	5.084	93	22027	10.00	UG/L	98
57) 1,4-DIOXANE	5.410	88	3195m	84.76	UG/L	
58) BROMODICHLOROMETHANE	5.223	83	42188	9.73	UG/L	100
59) 2-CHLOROETHYL VINYLETHYR	5.725	63	36336	16.54	UG/L	99
60) MIBK	6.032	43	344094	104.48	UG/L	96
61) CIS-1,3-DICHLOROPROPENE	5.862	75	48147	9.74	UG/L	96
62) TOLUENE	6.545	91	153710	10.10	UG/L	100
63) TRANS-1,3,-DICHLOROPRO...	6.286	75	34973	9.04	UG/L	98
65) 1,1,2-TRICHLOROETHANE	6.389	97	31212	10.13	UG/L	98
66) 2-HEXANONE	6.835	43	242802	103.87	UG/L	98
67) TETRACHLOROETHENE	7.175	166	41929	10.44	UG/L	99
68) 1,3-DICHLOROPROPANE	6.609	76	53594	9.90	UG/L	97
69) DIBROMOCHLOROMETHANE	6.791	129	31971	9.90	UG/L	98
70) 1,2-DIBROMOETHANE	6.997	107	32755	10.16	UG/L #	98
73) CHLOROBENZENE	7.778	112	98535	10.71	UG/L	94
74) 1,1,1,2-TETRACHLOROETHANE	7.719	131	32610	10.78	UG/L	93
75) ETHYLBENZENE	7.995	91	160997	10.50	UG/L	98
76) M/P-XYLENES	8.182	91	251105	21.06	UG/L	99
77) O-XYLENE	8.522	91	121964	10.52	UG/L	100
78) STYRENE	8.461	104	90284	10.39	UG/L	99
79) BROMOFORM	8.188	173	21409	10.44	UG/L	99
80) ISOPROPYLBENZENE	8.860	105	155073	10.55	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.522	83	41802	10.55	UG/L	99
83) 1,4-DICHLORO-2-BUTENE (...)	8.718	53	6645	7.96	UG/L #	74
84) BROMOBENZENE	9.008	77	54944	10.12	UG/L	92
85) 1,2,3-TRICHLOROPROPANE	8.648	75	31105	10.36	UG/L	95
86) N-PROPYLBENZENE	9.256	91	177327	10.73	UG/L	99
87) 2-CHLOROTOLUENE	9.298	91	96997	9.68	UG/L	99
88) 1,3,5-TRIMETHYLBENZENE	9.551	105	113632	10.49	UG/L	99
89) 4-CHLOROTOLUENE	9.376	91	104094	10.61	UG/L	98
91) TERT-BUTYLBENZENE	9.763	119	98955	10.43	UG/L	100
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	107875	10.07	UG/L	97
93) SEC-BUTYLBENZENE	9.964	105	140671	10.55	UG/L	100
94) 1,3-DICHLOROBENZENE	9.978	146	66072	10.33	UG/L	100
95) P-ISOPROPYLTOLUENE	10.157	119	113452	10.36	UG/L	99
96) 1,4-DICHLOROBENZENE	10.045	146	66626	10.05	UG/L	99
97) 1,2,3-TRIMETHYLBENZENE	10.249	105	108095	9.92	UG/L	95
98) N-BUTYLBENZENE	10.519	91	106076	10.76	UG/L	98
99) 1,2-DICHLOROBENZENE	10.346	146	57751	10.15	UG/L	98
100) 1,2-DIBROMO-3-CHLOROPR...	10.770	75	4627	9.48	UG/L	97
101) 1,3,5-TRICHLOROBENZENE	11.529	180	40113	10.45	UG/L	100
102) 1,2,4-TRICHLOROBENZENE	12.005	180	29233	9.98	UG/L	95
103) HEXACHLOROBUTADIENE	12.318	225	16485	10.52	UG/L	92
104) NAPHTHALENE	12.215	128	64387	9.94	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.399	180	24101	10.41	UG/L	100

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

304

Inst : GCMSVOA5



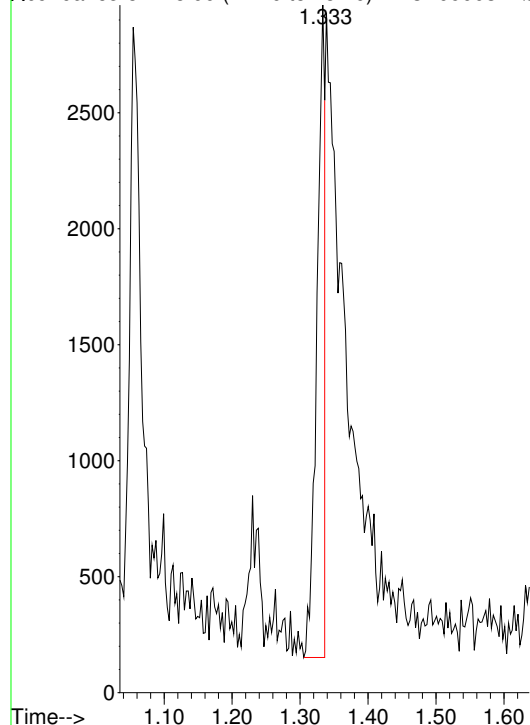
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09003.D
Acq On : 31 Mar 2023 8:35 am
Operator :
Sample : B0-BS1
Misc : 1

Quant Time : Fri Mar 31 11:24:01 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V09003.D



Original Int. Results

RT : 1.33
Area : 2271
Amount: 43.5085

Manual Int. Results

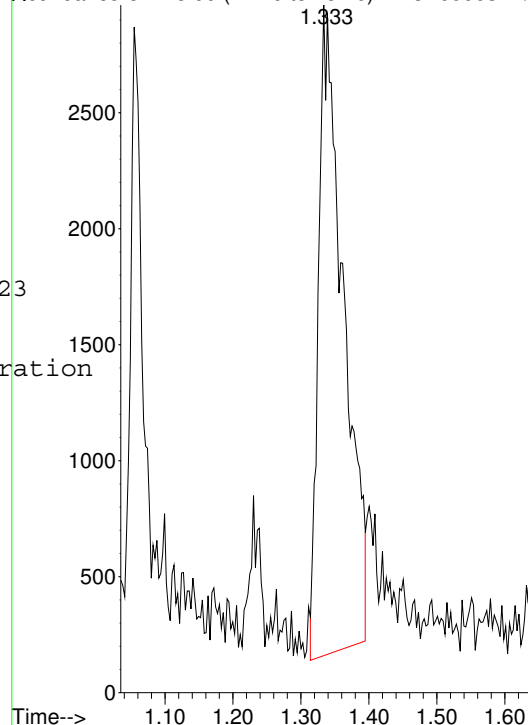
Fri Mar 31 11:23:45 2023

MIuser: eeh
Reason: Incoret Integration
RT : 1.33
Area : 7154
Amount: 137.058

Manual Integration

Ethanol

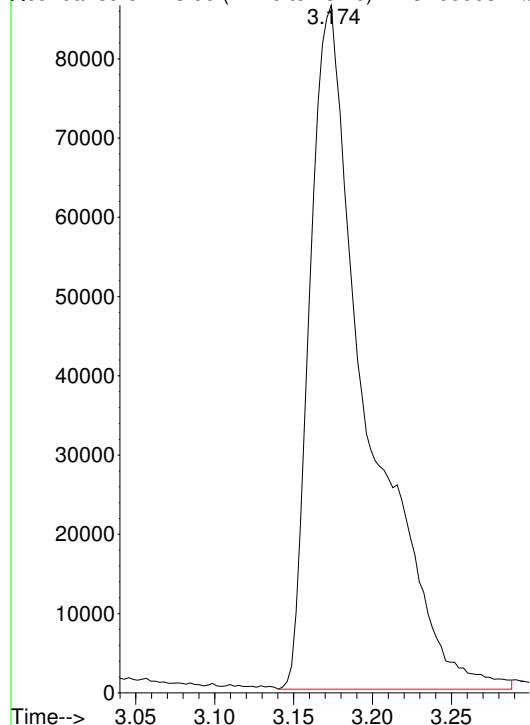
Abundance 45.00 (44.70 to 45.70): E23V09003.D



Original Integration

2-BUTANONE

Abundance 43.00 (42.70 to 43.70): E23V09003.D



Original Int. Results

RT : 3.17
Area : 217156
Amount: 129.422

Manual Int. Results

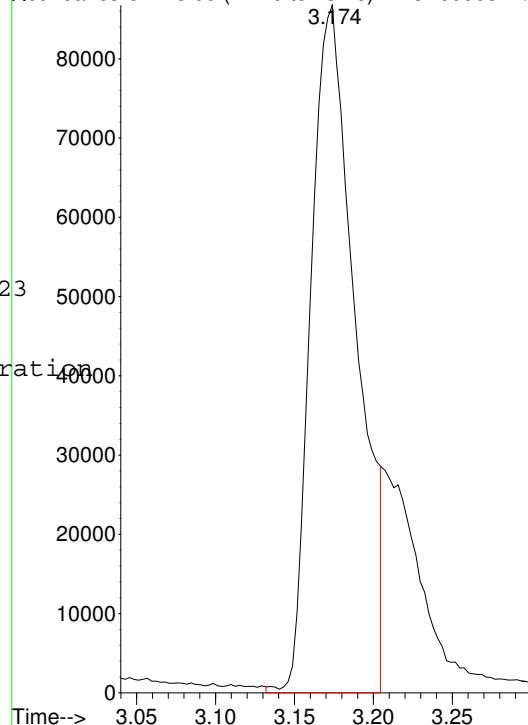
Fri Mar 31 11:23:55 2023

MIuser: eeh
Reason: Incoret Integration
RT : 3.17
Area : 173512
Amount: 103.411

Manual Integration

2-BUTANONE

Abundance 43.00 (42.70 to 43.70): E23V09003.D



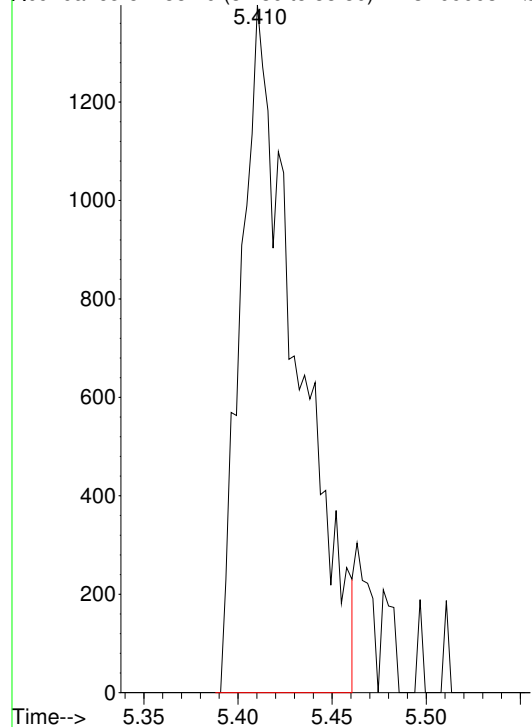
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09003.D
Acq On : 31 Mar 2023 8:35 am
Operator :
Sample : B0-BS1
Misc : 1

Quant Time : Fri Mar 31 11:24:01 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V09003.D\data



Original Int. Results

RT : 5.41
Area : 2881
Amount: 76.4337

Manual Int. Results

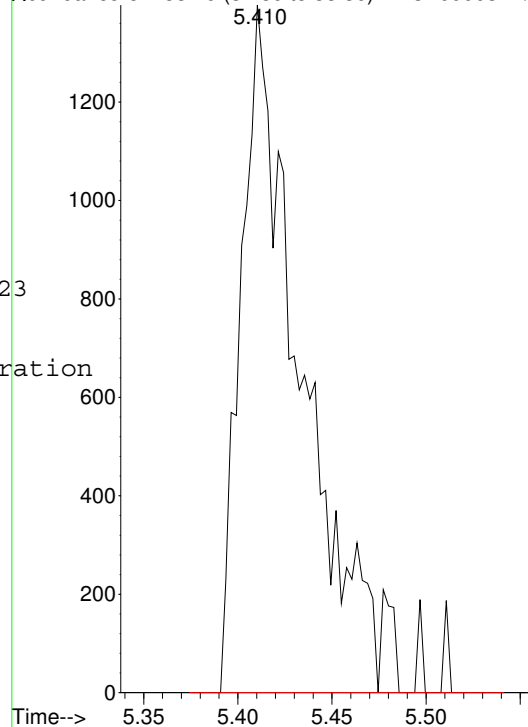
Fri Mar 31 11:24:01 2023

MIuser: eeh
Reason: Incoret Integration
RT : 5.41
Area : 3195
Amount: 84.7642

Manual Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V09003.D\data



1 - FORM I

ANALYSIS DATA SHEET

307

LCS Dup

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remed	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Laboratory ID:	B335720-BSD1
		File ID:	E23V09004.D
Sampled:		Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 09:03
Solids:		Preparation:	SW-846 5030B
		Dilution:	
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5
Column:	1		

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	112	2.0	50	
107-13-1	Acrylonitrile	11.3	0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)	9.18	0.13	0.50	
71-43-2	Benzene	9.86	0.18	1.0	
108-86-1	Bromobenzene	10.4	0.15	1.0	
74-97-5	Bromochloromethane	10.9	0.28	1.0	
75-27-4	Bromodichloromethane	10.3	0.16	0.50	
75-25-2	Bromoform	10.8	0.41	1.0	
74-83-9	Bromomethane	8.87	1.3	2.0	V-05
78-93-3	2-Butanone (MEK)	111	1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)	120	4.3	20	
104-51-8	n-Butylbenzene	10.8	0.15	1.0	
135-98-8	sec-Butylbenzene	10.7	0.13	1.0	
98-06-6	tert-Butylbenzene	10.4	0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)	9.52	0.15	0.50	
75-15-0	Carbon Disulfide	113	1.6	5.0	
56-23-5	Carbon Tetrachloride	10.6	0.16	5.0	
108-90-7	Chlorobenzene	10.6	0.12	1.0	
124-48-1	Chlorodibromomethane	10.4	0.20	0.50	
75-00-3	Chloroethane	9.43	0.34	2.0	
67-66-3	Chloroform	10.0	0.14	2.0	
74-87-3	Chloromethane	11.8	0.50	2.0	
95-49-8	2-Chlorotoluene	9.97	0.15	1.0	
106-43-4	4-Chlorotoluene	10.5	0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	11.3	0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)	10.4	0.16	0.50	
74-95-3	Dibromomethane	10.3	0.32	1.0	
95-50-1	1,2-Dichlorobenzene	10.4	0.13	1.0	
541-73-1	1,3-Dichlorobenzene	10.6	0.14	1.0	
106-46-7	1,4-Dichlorobenzene	10.2	0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

308

LCS Dup

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remed	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Laboratory ID:	B335720-BSD1
		File ID:	E23V09004.D
Sampled:		Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 09:03
Solids:		Preparation:	SW-846 5030B
		Dilution:	
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5
Column:	1		

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene	8.82	1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)	10.3	0.16	2.0	
75-34-3	1,1-Dichloroethane	10.3	0.14	1.0	
107-06-2	1,2-Dichloroethane	9.38	0.30	1.0	
75-35-4	1,1-Dichloroethylene	11.6	0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	10.4	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene	9.96	0.17	1.0	
78-87-5	1,2-Dichloropropane	9.69	0.19	1.0	
142-28-9	1,3-Dichloropropane	10.0	0.12	0.50	
594-20-7	2,2-Dichloropropane	9.87	0.35	1.0	
563-58-6	1,1-Dichloropropene	10.4	0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene	10.0	0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene	9.39	0.14	0.50	
60-29-7	Diethyl Ether	11.4	0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)	10.4	0.20	0.50	
123-91-1	1,4-Dioxane	95.5	18	50	
100-41-4	Ethylbenzene	10.5	0.22	1.0	
87-68-3	Hexachlorobutadiene	10.5	0.47	0.60	
591-78-6	2-Hexanone (MBK)	110	1.2	10	
98-82-8	Isopropylbenzene (Cumene)	10.4	0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)	10.5	0.13	1.0	
79-20-9	Methyl Acetate	10.9	0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	9.38	0.17	1.0	
108-87-2	Methyl Cyclohexane	9.90	0.16	1.0	
75-09-2	Methylene Chloride	10.0	0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	111	1.3	10	
91-20-3	Naphthalene	10.8	0.38	2.0	
103-65-1	n-Propylbenzene	10.6	0.12	1.0	
100-42-5	Styrene	10.6	0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	11.0	0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

309

LCS Dup

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remed	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Laboratory ID:	B335720-BSD1
		File ID:	E23V09004.D
Sampled:		Prepared:	03/31/23 05:27
		Analyzed:	03/31/23 09:03
Solids:		Preparation:	SW-846 5030B
		Dilution:	
Batch:	B335720	Sequence:	S085366
		Calibration:	2300183
		Instrument:	GCMSVOA5
Column:	1		

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	11.2	0.14	0.50	
127-18-4	Tetrachloroethylene	10.4	0.17	1.0	
109-99-9	Tetrahydrofuran	10.9	0.49	10	
108-88-3	Toluene	10.0	0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene	11.1	0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene	10.3	0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene	10.6	0.21	1.0	
71-55-6	1,1,1-Trichloroethane	10.4	0.15	1.0	
79-00-5	1,1,2-Trichloroethane	10.3	0.19	1.0	
79-01-6	Trichloroethylene	9.57	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)	11.3	0.15	2.0	
96-18-4	1,2,3-Trichloropropane	11.1	0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 11)	11.1	0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene	10.3	0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene	10.7	0.15	1.0	
75-01-4	Vinyl Chloride	13.1	0.24	2.0	V-20
108383/106423	m+p Xylene	21.2	0.49	2.0	
95-47-6	o-Xylene	10.7	0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09004.D
 Acq On : 31 Mar 2023 9:03 am
 Operator :
 Sample : B0-BSD1
 Misc : 1
 ALS Vial : 4 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Mar 31 11:25:04 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.097	168	371077	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.864	114	564272	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	257371	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.020	152	228135	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.019	65	151468	24.63	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	98.52%		
50) TOLUENE SS	6.484	98	528586	24.35	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	97.40%		
72) 4-BROMOFLUOROBENZENE SS	8.862	95	178706	24.88	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	99.52%		
Target Compounds						
					Qvalue	
3) DICHLORODIFLUOROMETHANE	0.918	85	45345	10.31	UG/L	99
4) DIFLUOROCHLOROMETHANE	0.887	51	52857	10.52	UG/L	92
5) CHLOROMETHANE	0.990	50	51500	11.79	UG/L	99
6) VINYL CHLORIDE	1.063	62	35940	13.12	UG/L	98
7) BROMOMETHANE	1.227	94	21950	8.87	UG/L	97
8) CHLOROETHANE	1.297	64	20869	9.43	UG/L	95
9) Ethanol	1.336	45	5917	114.84	UG/L #	42
10) FLUORODICHLOROMETHANE	1.330	67	74532	11.52	UG/L	99
11) TRICHLOROFLUOROMETHANE	1.570	101	57417	11.28	UG/L	99
12) DI ETHYL ETHER	1.726	59	28597	11.35	UG/L	93
13) ACROLEIN	1.581	56	87400	113.78	UG/L	100
14) ACETONE	1.662	43	115892	111.64	UG/L	95
15) 1,1-DICHLOROETHENE	1.869	61	56566	11.60	UG/L	94
16) 1,1,2-TRICL-1,2,2-TRIF...	2.014	101	41860	11.09	UG/L	94
17) IODOMETHANE	1.882	142	392122	83.57	UG/L	88
19) METHYL ACETATE	2.047	43	52111	10.87	UG/L	96
20) T-BUTYL ALCOHOL	1.944	59	35570	120.00	UG/L #	86
21) ACRYLONITRILE	1.944	53	17169	11.26	UG/L	96
22) METHYLENE CHLORIDE	1.986	49	43619	10.01	UG/L	88
23) CARBON DISULFIDE	2.069	76	1166437	112.64	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.602	73	83806	9.38	UG/L	94
25) TRANS 1,2-DICHLOROETHENE	2.460	61	49614	9.96	UG/L	96
26) 1,1-DICHLOROETHANE	2.674	63	64082	10.33	UG/L	98
28) VINYL ACETATE	2.892	43	704282	119.11	UG/L	96
30) DI ISOPROYL ETHER	3.213	45	108841	10.41	UG/L	89
31) 2-BUTANONE	3.171	43	184215m	111.22	UG/L	
33) T-BUTYL ETHYL ETHER	3.614	59	91689	9.52	UG/L	96
34) CIS-1,2-DICHLOROETHENE	3.243	61	49550	10.40	UG/L	93
35) 2,2-DICHLOROPROPANE	3.511	77	41162	9.87	UG/L	97
36) ETHYL ACETATE	3.575	43	41831	13.02	UG/L #	87
37) BROMOCHLOROMETHANE	3.394	49	28255	10.91	UG/L #	79
38) TETRAHYDROFURAN	3.812	42	10581	10.87	UG/L	91
40) CHLOROFORM	3.466	83	64272	10.01	UG/L	100
42) 1,1,1-TRICHLOROETHANE	4.158	97	50256	10.38	UG/L	94
43) CYCLOHEXANE	4.401	56	66849	10.10	UG/L	91
44) CARBON TETRACHLORIDE	4.495	117	45066	10.56	UG/L	99
45) 1,1-DICHLOROPROPENE	4.362	75	51157	10.42	UG/L	95
46) BENZENE	4.554	78	146787	9.86	UG/L	99
48) T-AMYLMETHYL ETHER	4.802	73	80915	9.18	UG/L #	89
51) 1,2-DICHLOROETHANE	4.094	62	42097	9.38	UG/L #	64
53) TRICHLOROETHENE	5.181	95	36764	9.57	UG/L	100
54) METHYLCYCLOHEXANE	5.619	83	60377	9.90	UG/L	95
55) 1,2-DICHLOROPROPANE	5.134	63	37789	9.69	UG/L	93

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09004.D
 Acq On : 31 Mar 2023 9:03 am
 Operator :
 Sample : B0-BSD1
 Misc : 1
 ALS Vial : 4 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Mar 31 11:25:04 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) DIBROMOMETHANE	5.087	93	22663	10.28	UG/L	97
57) 1,4-DIOXANE	5.407	88	3601m	95.46	UG/L	
58) BROMODICHLOROMETHANE	5.223	83	44643	10.29	UG/L	99
59) 2-CHLOROETHYL VINYLETHYR	5.725	63	41226	18.75	UG/L	97
60) MIBK	6.032	43	366613	111.24	UG/L	96
61) CIS-1,3-DICHLOROPROPENE	5.865	75	49651	10.04	UG/L	96
62) TOLUENE	6.542	91	152305	10.00	UG/L	99
63) TRANS-1,3,-DICHLOROPRO...	6.289	75	36364	9.39	UG/L	97
65) 1,1,2-TRICHLOROETHANE	6.389	97	31772	10.30	UG/L	97
66) 2-HEXANONE	6.835	43	257243	109.96	UG/L	99
67) TETRACHLOROETHENE	7.175	166	41855	10.41	UG/L	100
68) 1,3-DICHLOROPROPANE	6.609	76	54353	10.03	UG/L	100
69) DIBROMOCHLOROMETHANE	6.793	129	33748	10.44	UG/L	100
70) 1,2-DIBROMOETHANE	6.997	107	33693	10.44	UG/L	100
73) CHLOROBENZENE	7.778	112	96606	10.61	UG/L	94
74) 1,1,1,2-TETRACHLOROETHANE	7.722	131	32976	11.02	UG/L	93
75) ETHYLBENZENE	7.995	91	159095	10.48	UG/L	98
76) M/P-XYLENES	8.182	91	249493	21.15	UG/L	100
77) O-XYLENE	8.519	91	122380	10.66	UG/L	100
78) STYRENE	8.464	104	90747	10.55	UG/L	99
79) BROMOFORM	8.188	173	21892	10.79	UG/L #	97
80) ISOPROPYLBENZENE	8.860	105	151608	10.43	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	43919	11.20	UG/L	99
83) 1,4-DICHLORO-2-BUTENE(...	8.720	53	7285	8.82	UG/L #	79
84) BROMOBENZENE	9.005	77	55819	10.39	UG/L	92
85) 1,2,3-TRICHLOROPROPANE	8.645	75	32953	11.10	UG/L	93
86) N-PROPYLBENZENE	9.256	91	173842	10.63	UG/L	99
87) 2-CHLOROTOLUENE	9.297	91	98797	9.97	UG/L	98
88) 1,3,5-TRIMETHYLBENZENE	9.551	105	114581	10.69	UG/L	99
89) 4-CHLOROTOLUENE	9.376	91	102363	10.54	UG/L	98
91) TERT-BUTYLBENZENE	9.763	119	96700	10.37	UG/L	99
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	108196	10.28	UG/L	98
93) SEC-BUTYLBENZENE	9.964	105	140065	10.69	UG/L	99
94) 1,3-DICHLOROBENZENE	9.978	146	66360	10.56	UG/L	100
95) P-ISOPROPYLTOLUENE	10.156	119	113038	10.51	UG/L	100
96) 1,4-DICHLOROBENZENE	10.045	146	66440	10.20	UG/L	97
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	110728	10.34	UG/L	94
98) N-BUTYLBENZENE	10.519	91	105136	10.85	UG/L	99
99) 1,2-DICHLOROBENZENE	10.349	146	58063	10.39	UG/L	99
100) 1,2-DIBROMO-3-CHLOROPR...	10.773	75	5432	11.32	UG/L	92
101) 1,3,5-TRICHLOROBENZENE	11.531	180	40166	10.65	UG/L	99
102) 1,2,4-TRICHLOROBENZENE	12.005	180	29663	10.31	UG/L	98
103) HEXACHLOROBUTADIENE	12.320	225	16175	10.51	UG/L	92
104) NAPHTHALENE	12.212	128	68902	10.83	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.398	180	25242	11.10	UG/L	98

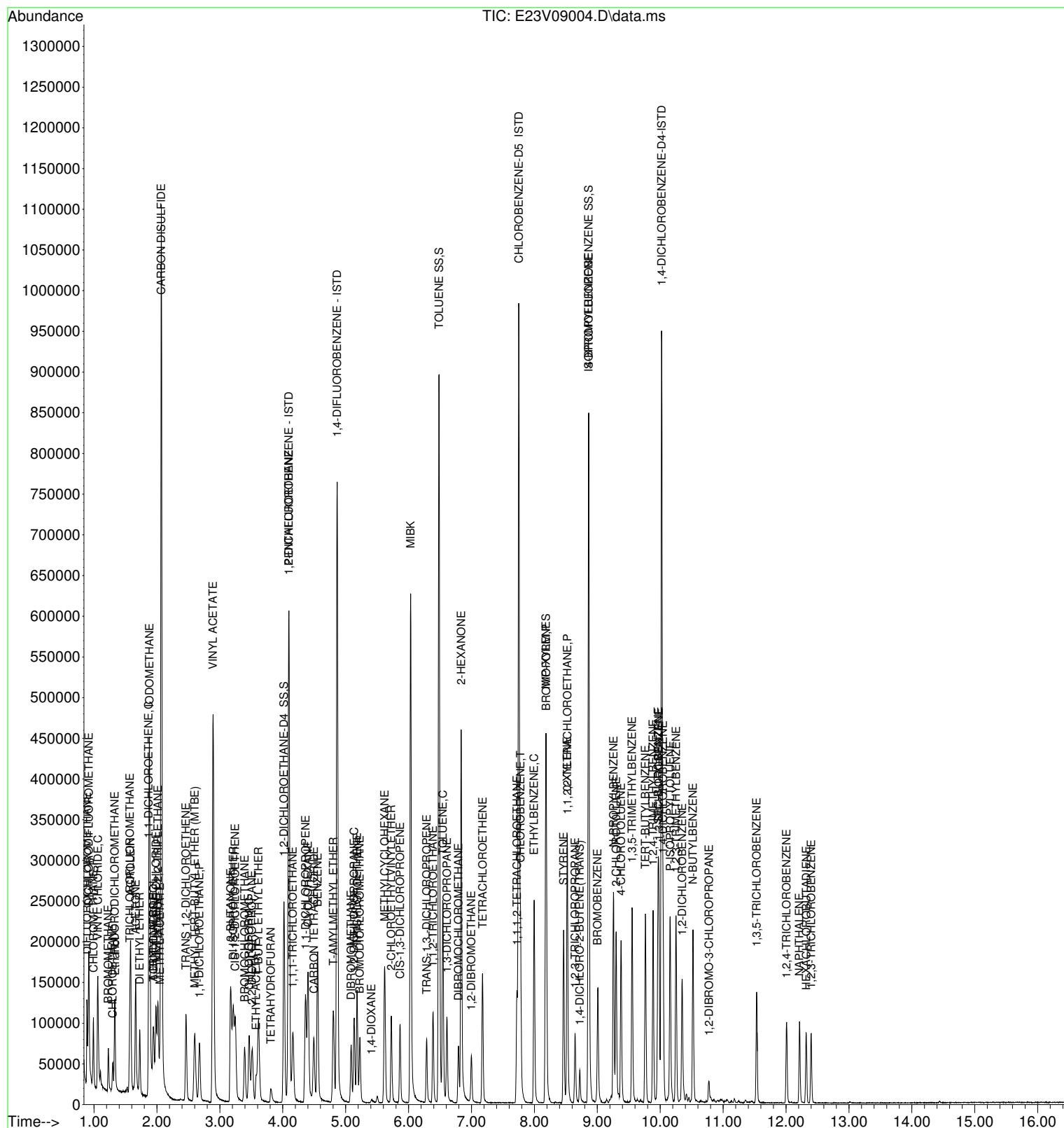
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Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09004.D
Acq On : 31 Mar 2023 9:03 am
Operator :
Sample : B0-BSD1
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

312

Inst : GCMSVOA5

Quant Time: Mar 31 11:25:04 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration

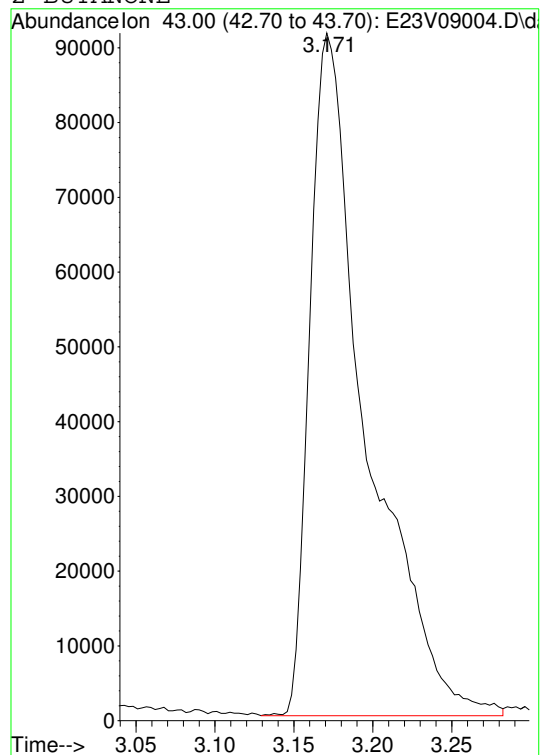


Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09004.D
Acq On : 31 Mar 2023 9:03 am
Operator :
Sample : B0-BSD1
Misc : 1

Quant Time : Fri Mar 31 11:25:04 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

2-BUTANONE



Original Int. Results

RT : 3.17
Area : 227433
Amount: 137.313

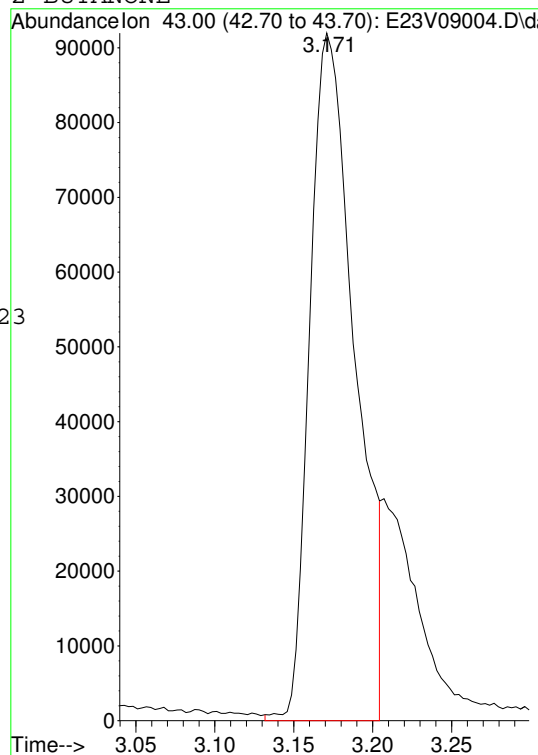
Manual Int. Results

Fri Mar 31 11:24:53 2023

MIuser: eeh
Reason: Split Peak
RT : 3.17
Area : 184215
Amount: 111.22

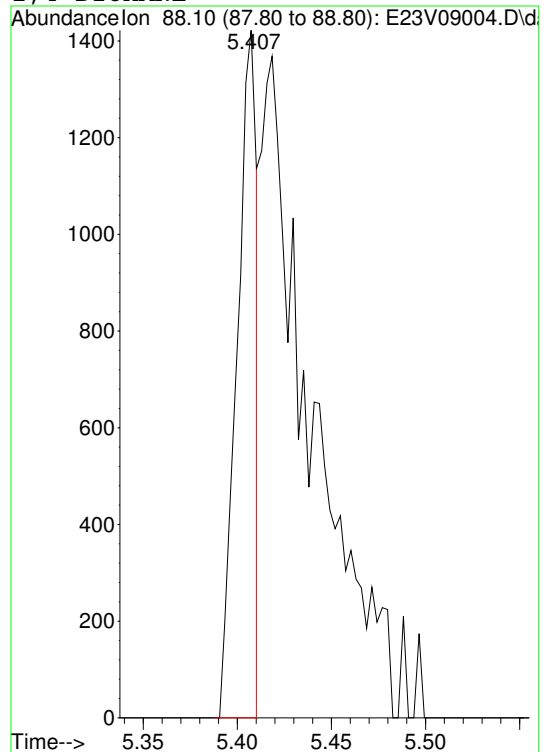
Manual Integration

2-BUTANONE



Original Integration

1,4-DIOXANE



Original Int. Results

RT : 5.41
Area : 1025
Amount: 27.1732

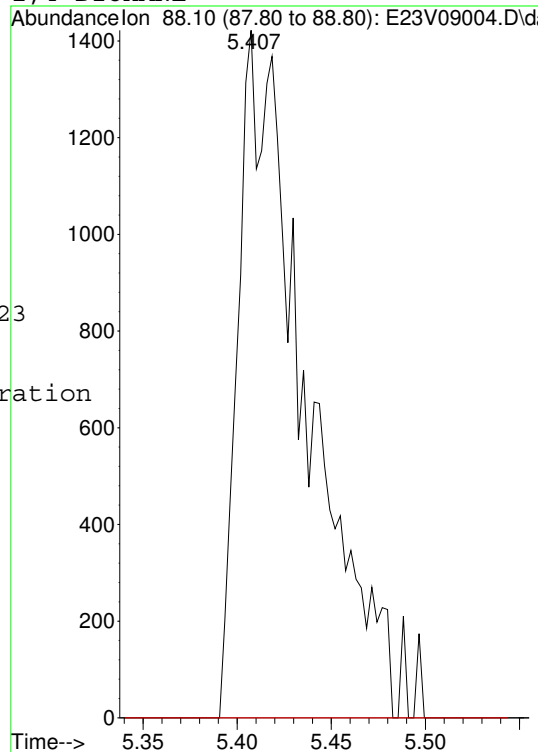
Manual Int. Results

Fri Mar 31 11:25:04 2023

MIuser: eeh
Reason: Incoret Integration
RT : 5.41
Area : 3601
Amount: 95.4642

Manual Integration

1,4-DIOXANE



1 - FORM I

ANALYSIS DATA SHEET

314

Matrix Spike

Laboratory: Pace New England Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183

Matrix: Water Laboratory ID: B335720-MS1 File ID: E23V09027.D

Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 19:29

Solids: Preparation: SW-846 5030B Dilution:

Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5

Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	97.1	2.0	50	
107-13-1	Acrylonitrile	8.98	0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)	8.47	0.13	0.50	
71-43-2	Benzene	9.35	0.18	1.0	
108-86-1	Bromobenzene	9.92	0.15	1.0	
74-97-5	Bromochloromethane	10.4	0.28	1.0	
75-27-4	Bromodichloromethane	9.19	0.16	0.50	
75-25-2	Bromoform	9.65	0.41	1.0	
74-83-9	Bromomethane	4.92	1.3	2.0	MS-07A, V-05
78-93-3	2-Butanone (MEK)	93.7	1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)	92.2	4.3	20	
104-51-8	n-Butylbenzene	9.82	0.15	1.0	
135-98-8	sec-Butylbenzene	10.1	0.13	1.0	
98-06-6	tert-Butylbenzene	10.4	0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)	8.65	0.15	0.50	
75-15-0	Carbon Disulfide	106	1.6	5.0	
56-23-5	Carbon Tetrachloride	10.1	0.16	5.0	
108-90-7	Chlorobenzene	10.4	0.12	1.0	
124-48-1	Chlorodibromomethane	9.55	0.20	0.50	
75-00-3	Chloroethane	10.1	0.34	2.0	
67-66-3	Chloroform	9.54	0.14	2.0	
74-87-3	Chloromethane	7.52	0.50	2.0	
95-49-8	2-Chlorotoluene	8.99	0.15	1.0	
106-43-4	4-Chlorotoluene	10.1	0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	8.47	0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)	9.79	0.16	0.50	
74-95-3	Dibromomethane	9.72	0.32	1.0	
95-50-1	1,2-Dichlorobenzene	9.70	0.13	1.0	
541-73-1	1,3-Dichlorobenzene	9.65	0.14	1.0	
106-46-7	1,4-Dichlorobenzene	9.47	0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

315

Matrix Spike

Laboratory: Pace New England Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183

Matrix: Water Laboratory ID: B335720-MS1 File ID: E23V09027.D

Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 19:29

Solids: Preparation: SW-846 5030B Dilution:

Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5

Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene	7.39	1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)	10.2	0.16	2.0	
75-34-3	1,1-Dichloroethane	10.1	0.14	1.0	
107-06-2	1,2-Dichloroethane	8.77	0.30	1.0	
75-35-4	1,1-Dichloroethylene	11.3	0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	11.3	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene	9.55	0.17	1.0	
78-87-5	1,2-Dichloropropane	9.40	0.19	1.0	
142-28-9	1,3-Dichloropropane	9.50	0.12	0.50	
594-20-7	2,2-Dichloropropane	7.73	0.35	1.0	
563-58-6	1,1-Dichloropropene	10.1	0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene	8.90	0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene	8.75	0.14	0.50	
60-29-7	Diethyl Ether	10.4	0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)	9.87	0.20	0.50	
123-91-1	1,4-Dioxane	87.8	18	50	
100-41-4	Ethylbenzene	10.3	0.22	1.0	
87-68-3	Hexachlorobutadiene	9.02	0.47	0.60	
591-78-6	2-Hexanone (MBK)	96.0	1.2	10	
98-82-8	Isopropylbenzene (Cumene)	10.4	0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)	9.98	0.13	1.0	
79-20-9	Methyl Acetate	8.45	0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	8.72	0.17	1.0	
108-87-2	Methyl Cyclohexane	9.94	0.16	1.0	
75-09-2	Methylene Chloride	9.14	0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	99.2	1.3	10	
91-20-3	Naphthalene	15.2	0.38	2.0	MS-24
103-65-1	n-Propylbenzene	10.5	0.12	1.0	
100-42-5	Styrene	10.2	0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	10.7	0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

316

Matrix Spike

Laboratory: Pace New England Work Order: 23C3284
 Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183
 Matrix: Water Laboratory ID: B335720-MS1 File ID: E23V09027.D
 Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 19:29
 Solids: Preparation: SW-846 5030B Dilution:
 Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5
 Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	9.60	0.14	0.50	
127-18-4	Tetrachloroethylene	13.4	0.17	1.0	
109-99-9	Tetrahydrofuran	9.01	0.49	10	J
108-88-3	Toluene	10.1	0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene	8.70	0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene	9.08	0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene	9.41	0.21	1.0	
71-55-6	1,1,1-Trichloroethane	19.8	0.15	1.0	
79-00-5	1,1,2-Trichloroethane	9.67	0.19	1.0	
79-01-6	Trichloroethylene	48.0	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)	11.2	0.15	2.0	
96-18-4	1,2,3-Trichloropropane	9.77	0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene	9.87	0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene	10.1	0.15	1.0	
75-01-4	Vinyl Chloride	14.0	0.24	2.0	MS-15, V-20
108383/106423	m+p Xylene	20.9	0.49	2.0	
95-47-6	o-Xylene	10.4	0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09027.D
 Acq On : 31 Mar 2023 7:29 pm
 Operator :
 Sample : 23C3284-02 @ MS
 Misc : 1
 ALS Vial : 21 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 08:02:30 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.102	168	403562	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.869	114	594622	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	276922	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	246672	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.024	65	157866	23.61	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	94.44%		
50) TOLUENE SS	6.487	98	568311	24.84	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	99.36%		
72) 4-BROMOFLUOROBENZENE SS	8.863	95	193174	24.99	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	99.96%		
Target Compounds						
					Qvalue	
3) DICHLORODIFLUOROMETHANE	0.921	85	48806	10.20	UG/L	98
4) DIFLUOROCHLOROMETHANE	0.890	51	58246	10.66	UG/L	92
5) CHLOROMETHANE	0.993	50	35705	7.52	UG/L	100
6) VINYL CHLORIDE	1.066	62	41566	13.95	UG/L	99
7) BROMOMETHANE	1.227	94	13221	4.92	UG/L	98
8) CHLOROETHANE	1.300	64	24240	10.07	UG/L	94
9) Ethanol	1.339	45	5450m	97.26	UG/L	
10) FLUORODICHLOROMETHANE	1.333	67	79246	11.27	UG/L	100
11) TRICHLOROFLUOROMETHANE	1.570	101	62046	11.21	UG/L	100
12) DI ETHYL ETHER	1.729	59	28548	10.42	UG/L	94
13) ACROLEIN	1.584	56	74855	89.60	UG/L	97
14) ACETONE	1.662	43	109673	97.14	UG/L	95
15) 1,1-DICHLOROETHENE	1.872	61	59859	11.29	UG/L	96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.019	101	45587	11.10	UG/L	95
17) IODOMETHANE	1.883	142	418434	82.00	UG/L	87
19) METHYL ACETATE	2.050	43	44058	8.45	UG/L	96
20) T-BUTYL ALCOHOL	1.944	59	29736	92.24	UG/L #	88
21) ACRYLONITRILE	1.944	53	14886	8.98	UG/L	97
22) METHYLENE CHLORIDE	1.989	49	43311	9.14	UG/L	92
23) CARBON DISULFIDE	2.072	76	1198954	106.46	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.605	73	84688	8.72	UG/L	95
25) TRANS 1,2-DICHLOROETHENE	2.468	61	51754	9.55	UG/L	96
26) 1,1-DICHLOROETHANE	2.680	63	67880	10.06	UG/L	98
28) VINYL ACETATE	2.898	43	530747	82.54	UG/L	97
30) DI ISOPROYL ETHER	3.216	45	112248	9.87	UG/L	90
31) 2-BUTANONE	3.174	43	168712m	93.66	UG/L	
33) T-BUTYL ETHYL ETHER	3.617	59	90646	8.65	UG/L	96
34) CIS-1,2-DICHLOROETHENE	3.249	61	58471	11.28	UG/L	96
35) 2,2-DICHLOROPROPANE	3.520	77	35085	7.73	UG/L	99
36) ETHYL ACETATE	3.581	43	34265	9.81	UG/L #	91
37) BROMOCHLOROMETHANE	3.397	49	29437	10.45	UG/L #	80
38) TETRAHYDROFURAN	3.818	42	9537	9.01	UG/L	92
40) CHLOROFORM	3.472	83	66634	9.54	UG/L	99
42) 1,1,1-TRICHLOROETHANE	4.167	97	104211	19.79	UG/L	99
43) CYCLOHEXANE	4.406	56	71234	9.89	UG/L	92
44) CARBON TETRACHLORIDE	4.496	117	46824	10.08	UG/L	100
45) 1,1-DICHLOROPROPENE	4.367	75	53808	10.08	UG/L	96
46) BENZENE	4.560	78	151364	9.35	UG/L	99
48) T-AMYLMETHYL ETHER	4.808	73	81234	8.47	UG/L #	91
51) 1,2-DICHLOROETHANE	4.100	62	41485	8.77	UG/L #	61
53) TRICHLOROETHENE	5.184	95	194451	48.05	UG/L	97
54) METHYLCYCLOHEXANE	5.625	83	63881	9.94	UG/L	95
55) 1,2-DICHLOROPROPANE	5.140	63	38625	9.40	UG/L #	92

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09027.D
 Acq On : 31 Mar 2023 7:29 pm
 Operator :
 Sample : 23C3284-02 @ MS
 Misc : 1
 ALS Vial : 21 Sample Multiplier: 1

Inst : GCMSVOA5

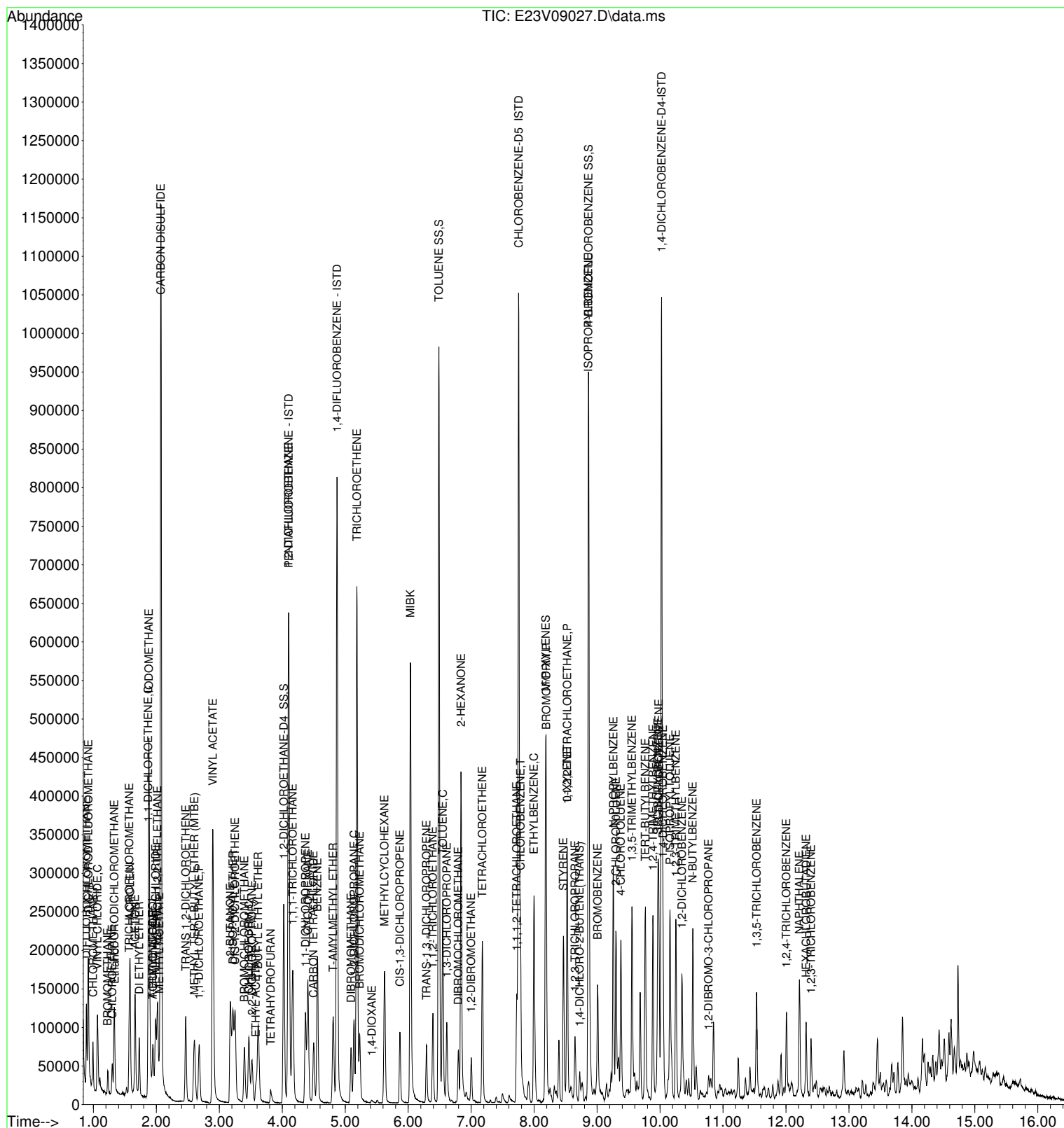
Quant Time: Apr 03 08:02:30 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) DIBROMOMETHANE	5.092	93	22572	9.72	UG/L	98
57) 1,4-DIOXANE	5.421	88	3492m	87.85	UG/L	
58) BROMODICHLOROMETHANE	5.229	83	42000	9.19	UG/L	100
60) MIBK	6.035	43	344614	99.23	UG/L	96
61) CIS-1,3-DICHLOROPROPENE	5.868	75	46374	8.90	UG/L	97
62) TOLUENE	6.548	91	162404	10.12	UG/L	98
63) TRANS-1,3,-DICHLOROPRO...	6.292	75	35705	8.75	UG/L	99
65) 1,1,2-TRICHLOROETHANE	6.392	97	31437	9.67	UG/L	96
66) 2-HEXANONE	6.838	43	236743	96.03	UG/L	95
67) TETRACHLOROETHENE	7.176	166	56642	13.37	UG/L	99
68) 1,3-DICHLOROPROPANE	6.612	76	54234	9.50	UG/L	98
69) DIBROMOCHLOROMETHANE	6.796	129	32511	9.55	UG/L	100
70) 1,2-DIBROMOETHANE	7.000	107	33297	9.79	UG/L	99
73) CHLOROBENZENE	7.783	112	102061	10.42	UG/L	94
74) 1,1,1,2-TETRACHLOROETHANE	7.722	131	34365	10.67	UG/L #	88
75) ETHYLBENZENE	7.995	91	168352	10.31	UG/L	99
76) M/P-XYLENES	8.185	91	264983	20.88	UG/L	100
77) O-XYLENE	8.522	91	128586	10.41	UG/L	99
78) STYRENE	8.464	104	94803	10.24	UG/L	97
79) BROMOFORM	8.191	173	21070	9.65	UG/L	100
80) ISOPROPYLBENZENE	8.860	105	162197	10.37	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	40520	9.60	UG/L	97
83) 1,4-DICHLORO-2-BUTENE(...	8.723	53	6567	7.39	UG/L #	80
84) BROMOBENZENE	9.008	77	57348	9.92	UG/L	93
85) 1,2,3-TRICHLOROPROPANE	8.648	75	31230	9.77	UG/L	96
86) N-PROPYLBENZENE	9.259	91	185326	10.54	UG/L	99
87) 2-CHLOROTOLUENE	9.298	91	95907	8.99	UG/L	98
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	116860	10.14	UG/L	98
89) 4-CHLOROTOLUENE	9.376	91	105249	10.07	UG/L	100
91) TERT-BUTYLBENZENE	9.766	119	104977	10.41	UG/L	99
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	112310	9.87	UG/L	98
93) SEC-BUTYLBENZENE	9.964	105	143622	10.14	UG/L	99
94) 1,3-DICHLOROBENZENE	9.978	146	65571	9.65	UG/L	98
95) P-ISOPROPYLTOLUENE	10.157	119	116105	9.98	UG/L	99
96) 1,4-DICHLOROBENZENE	10.045	146	66706	9.47	UG/L	99
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	112349	9.70	UG/L	95
98) N-BUTYLBENZENE	10.519	91	102879	9.82	UG/L	97
99) 1,2-DICHLOROBENZENE	10.346	146	58622	9.70	UG/L	97
100) 1,2-DIBROMO-3-CHLOROPR...	10.770	75	4396	8.47	UG/L	99
101) 1,3,5-TRICHLOROBENZENE	11.531	180	38349	9.41	UG/L	98
102) 1,2,4-TRICHLOROBENZENE	12.005	180	28266	9.08	UG/L	95
103) HEXACHLOROBUTADIENE	12.321	225	15020	9.02	UG/L	89
104) NAPHTHALENE	12.212	128	104573	15.20	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.396	180	21401	8.70	UG/L	98

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

319

Quant Time: Apr 03 08:02:30 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration



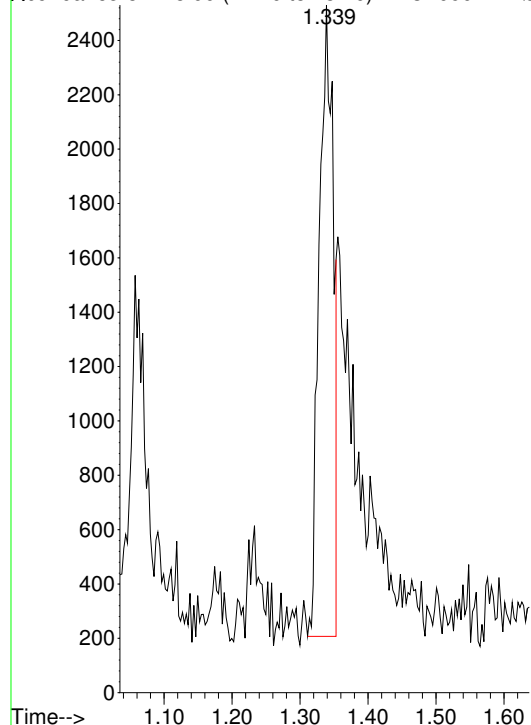
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Data File : E23V09027.D
Acq On : 31 Mar 2023 7:29 pm
Operator :
Sample : 23C3284-02 @ MS
Misc : 1

Quant Time : Mon Apr 03 08:02:30 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

Ethanol

Abundance 45.00 (44.70 to 45.70): E23V09027.D



Original Int. Results

RT : 1.34
Area : 3353
Amount: 59.8363

Manual Int. Results

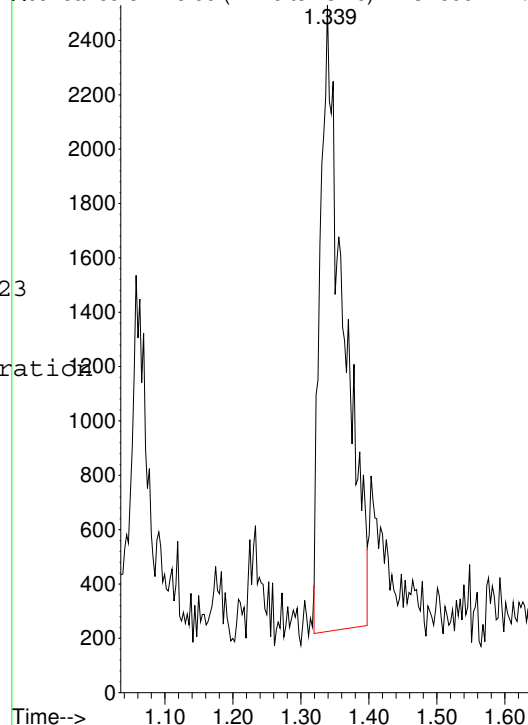
Mon Apr 03 08:02:19 2023

MIuser: eeh
Reason: Incoret Integration
RT : 1.34
Area : 5450
Amount: 97.2586

Manual Integration

Ethanol

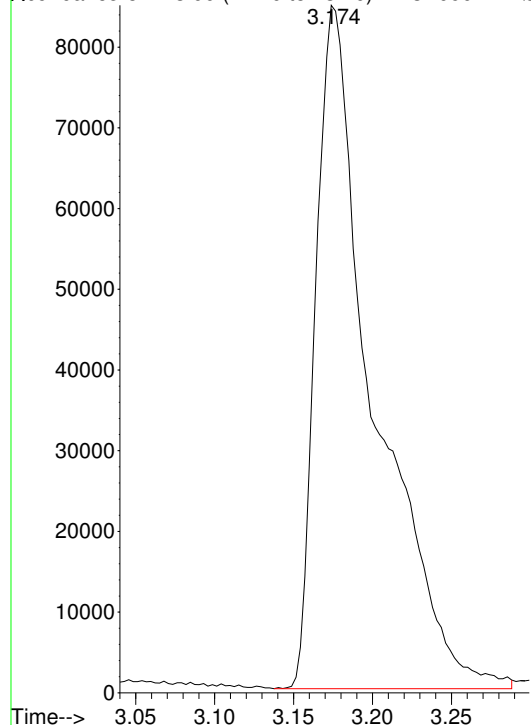
Abundance 45.00 (44.70 to 45.70): E23V09027.D



Original Integration

2-BUTANONE

Abundance 43.00 (42.70 to 43.70): E23V09027.D



Original Int. Results

RT : 3.17
Area : 214972
Amount: 119.342

Manual Int. Results

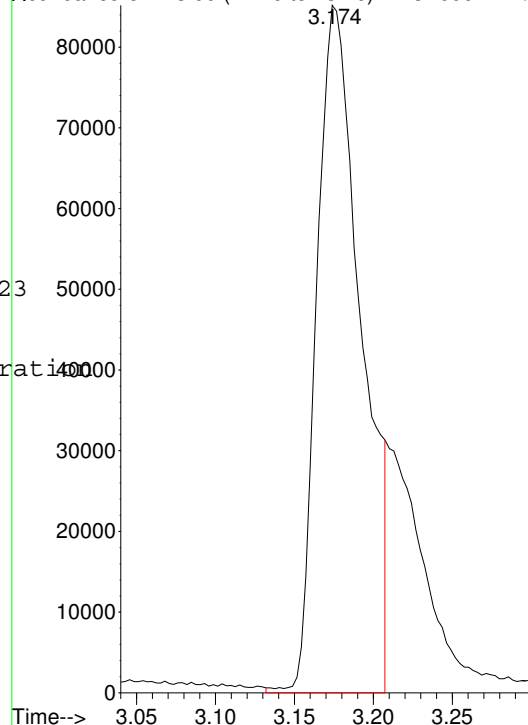
Mon Apr 03 08:02:26 2023

MIuser: eeh
Reason: Incoret Integration
RT : 3.17
Area : 168712
Amount: 93.6605

Manual Integration

2-BUTANONE

Abundance 43.00 (42.70 to 43.70): E23V09027.D



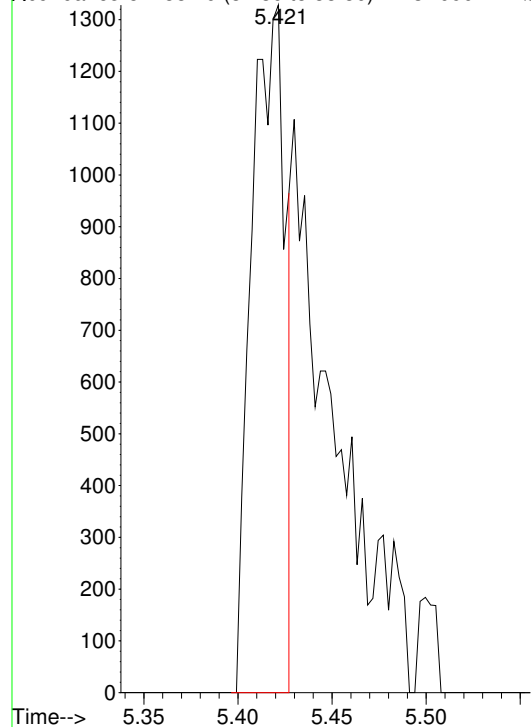
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09027.D
Acq On : 31 Mar 2023 7:29 pm
Operator :
Sample : 23C3284-02 @ MS
Misc : 1

Quant Time : Mon Apr 03 08:02:30 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V09027.D.d



Original Int. Results

RT : 5.42
Area : 1660
Amount: 41.7612

Manual Int. Results

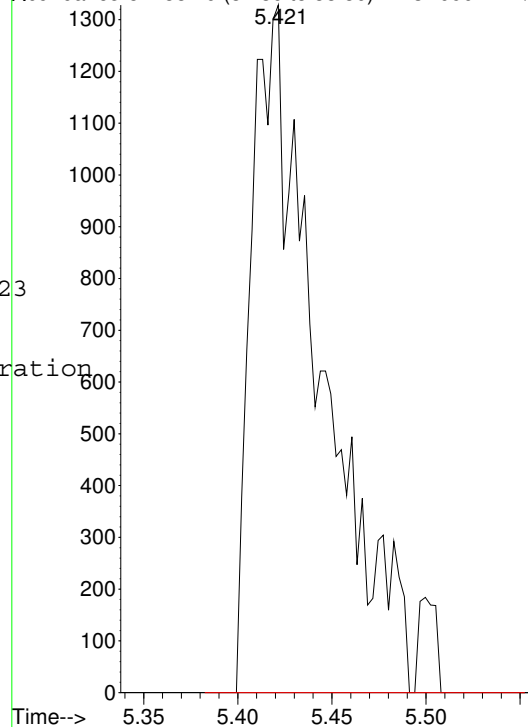
Mon Apr 03 08:02:30 2023

MIuser: eeh
Reason: Incoret Integration
RT : 5.42
Area : 3492
Amount: 87.8495

Manual Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V09027.D.d



1 - FORM I

ANALYSIS DATA SHEET

322

Matrix Spike Dup

Laboratory: Pace New England Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183

Matrix: Water Laboratory ID: B335720-MSD1 File ID: E23V09028.D

Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 19:57

Solids: Preparation: SW-846 5030B Dilution:

Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5

Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	94.1	2.0	50	
107-13-1	Acrylonitrile	8.86	0.47	5.0	
994-05-8	tert-Amyl Methyl Ether (TAME)	8.41	0.13	0.50	
71-43-2	Benzene	9.30	0.18	1.0	
108-86-1	Bromobenzene	9.98	0.15	1.0	
74-97-5	Bromochloromethane	9.90	0.28	1.0	
75-27-4	Bromodichloromethane	9.28	0.16	0.50	
75-25-2	Bromoform	9.80	0.41	1.0	
74-83-9	Bromomethane	6.42	1.3	2.0	MS-07A, V-05
78-93-3	2-Butanone (MEK)	91.4	1.7	20	
75-65-0	tert-Butyl Alcohol (TBA)	87.8	4.3	20	
104-51-8	n-Butylbenzene	10.3	0.15	1.0	
135-98-8	sec-Butylbenzene	10.5	0.13	1.0	
98-06-6	tert-Butylbenzene	10.7	0.14	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)	8.82	0.15	0.50	
75-15-0	Carbon Disulfide	105	1.6	5.0	
56-23-5	Carbon Tetrachloride	9.96	0.16	5.0	
108-90-7	Chlorobenzene	10.6	0.12	1.0	
124-48-1	Chlorodibromomethane	9.41	0.20	0.50	
75-00-3	Chloroethane	9.14	0.34	2.0	
67-66-3	Chloroform	9.31	0.14	2.0	
74-87-3	Chloromethane	9.18	0.50	2.0	
95-49-8	2-Chlorotoluene	9.29	0.15	1.0	
106-43-4	4-Chlorotoluene	10.2	0.15	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	8.61	0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)	9.65	0.16	0.50	
74-95-3	Dibromomethane	9.67	0.32	1.0	
95-50-1	1,2-Dichlorobenzene	9.90	0.13	1.0	
541-73-1	1,3-Dichlorobenzene	9.99	0.14	1.0	
106-46-7	1,4-Dichlorobenzene	9.77	0.13	1.0	

1 - FORM I

ANALYSIS DATA SHEET

323

Matrix Spike Dup

Laboratory: Pace New England Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183

Matrix: Water Laboratory ID: B335720-MSD1 File ID: E23V09028.D

Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 19:57

Solids: Preparation: SW-846 5030B Dilution:

Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5

Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
110-57-6	trans-1,4-Dichloro-2-butene	7.90	1.5	2.0	
75-71-8	Dichlorodifluoromethane (Freon 12)	9.69	0.16	2.0	
75-34-3	1,1-Dichloroethane	9.84	0.14	1.0	
107-06-2	1,2-Dichloroethane	8.67	0.30	1.0	
75-35-4	1,1-Dichloroethylene	11.1	0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	11.2	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene	9.43	0.17	1.0	
78-87-5	1,2-Dichloropropane	9.03	0.19	1.0	
142-28-9	1,3-Dichloropropane	9.38	0.12	0.50	
594-20-7	2,2-Dichloropropane	7.82	0.35	1.0	
563-58-6	1,1-Dichloropropene	9.82	0.15	2.0	
10061-01-5	cis-1,3-Dichloropropene	9.15	0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene	8.60	0.14	0.50	
60-29-7	Diethyl Ether	10.1	0.14	2.0	
108-20-3	Diisopropyl Ether (DIPE)	9.44	0.20	0.50	
123-91-1	1,4-Dioxane	87.9	18	50	
100-41-4	Ethylbenzene	10.6	0.22	1.0	
87-68-3	Hexachlorobutadiene	10.0	0.47	0.60	
591-78-6	2-Hexanone (MBK)	93.6	1.2	10	
98-82-8	Isopropylbenzene (Cumene)	10.6	0.15	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)	10.4	0.13	1.0	
79-20-9	Methyl Acetate	8.65	0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	8.44	0.17	1.0	
108-87-2	Methyl Cyclohexane	9.94	0.16	1.0	
75-09-2	Methylene Chloride	8.70	0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	96.6	1.3	10	
91-20-3	Naphthalene	11.3	0.38	2.0	
103-65-1	n-Propylbenzene	10.8	0.12	1.0	
100-42-5	Styrene	10.3	0.15	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	10.5	0.16	1.0	

1 - FORM I

ANALYSIS DATA SHEET

324

Matrix Spike Dup

Laboratory: Pace New England Work Order: 23C3284
 Client: NYDEC_Environmental Assessment & Remed Project: Genzale Plating Co. - CO 144183
 Matrix: Water Laboratory ID: B335720-MSD1 File ID: E23V09028.D
 Sampled: Prepared: 03/31/23 05:27 Analyzed: 03/31/23 19:57
 Solids: Preparation: SW-846 5030B Dilution:
 Batch: B335720 Sequence: S085366 Calibration: 2300183 Instrument: GCMSVOA5
 Column: 1

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
79-34-5	1,1,2,2-Tetrachloroethane	10.0	0.14	0.50	
127-18-4	Tetrachloroethylene	13.1	0.17	1.0	
109-99-9	Tetrahydrofuran	9.32	0.49	10	J
108-88-3	Toluene	10.0	0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene	9.91	0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene	9.84	0.30	1.0	
108-70-3	1,3,5-Trichlorobenzene	9.91	0.21	1.0	
71-55-6	1,1,1-Trichloroethane	19.5	0.15	1.0	
79-00-5	1,1,2-Trichloroethane	9.63	0.19	1.0	
79-01-6	Trichloroethylene	48.6	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)	11.0	0.15	2.0	
96-18-4	1,2,3-Trichloropropane	9.87	0.28	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0	0.21	1.0	
95-63-6	1,2,4-Trimethylbenzene	10.2	0.20	1.0	
108-67-8	1,3,5-Trimethylbenzene	10.5	0.15	1.0	
75-01-4	Vinyl Chloride	13.4	0.24	2.0	MS-15, V-20
108383/106423	m+p Xylene	21.0	0.49	2.0	
95-47-6	o-Xylene	10.6	0.24	1.0	

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09028.D
 Acq On : 31 Mar 2023 7:57 pm
 Operator :
 Sample : 23C3284-02 @ MSD
 Misc : 1
 ALS Vial : 22 Sample Multiplier: 1

Inst : GCMSVOA5

Quant Time: Apr 03 08:03:10 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) PENTAFLUOROBENZENE - ISTD	4.100	168	405160	30.00	UG/L	0.00
49) 1,4-DIFLUOROBENZENE - ...	4.869	114	593919	30.00	UG/L	0.00
71) CHLOROBENZENE-D5 ISTD	7.753	82	270592	30.00	UG/L	0.00
90) 1,4-DICHLOROBENZENE-D4...	10.023	152	240026	30.00	UG/L	0.00
System Monitoring Compounds						
2) 1,2-DICHLOROETHANE-D4 SS	4.021	65	155442	23.15	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	92.60%		
50) TOLUENE SS	6.487	98	557293	24.39	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	97.56%		
72) 4-BROMOFLUOROBENZENE SS	8.863	95	191406	25.34	UG/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	101.36%		
Target Compounds						
						Qvalue
3) DICHLORODIFLUOROMETHANE	0.921	85	46552	9.69	UG/L	100
4) DIFLUOROCHLOROMETHANE	0.890	51	56704	10.34	UG/L	93
5) CHLOROMETHANE	0.990	50	43767	9.18	UG/L	97
6) VINYL CHLORIDE	1.063	62	39973	13.37	UG/L	98
7) BROMOMETHANE	1.227	94	17350	6.42	UG/L	96
8) CHLOROETHANE	1.300	64	22085	9.14	UG/L	94
9) Ethanol	1.344	45	5606m	99.65	UG/L	
10) FLUORODICHLOROMETHANE	1.333	67	78609	11.13	UG/L	100
11) TRICHLOROFLUOROMETHANE	1.570	101	61372	11.04	UG/L	99
12) DI ETHYL ETHER	1.726	59	27862	10.13	UG/L	91
13) ACROLEIN	1.584	56	74396	88.70	UG/L	99
14) ACETONE	1.662	43	106684	94.12	UG/L	94
15) 1,1-DICHLOROETHENE	1.871	61	59057	11.10	UG/L	96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.019	101	45303	10.99	UG/L	97
17) IODOMETHANE	1.883	142	408421	79.72	UG/L	91
19) METHYL ACETATE	2.050	43	45278	8.65	UG/L	96
20) T-BUTYL ALCOHOL	1.944	59	28422	87.82	UG/L #	82
21) ACRYLONITRILE	1.947	53	14756	8.86	UG/L	94
22) METHYLENE CHLORIDE	1.986	49	41394	8.70	UG/L	92
23) CARBON DISULFIDE	2.072	76	1192208	105.44	UG/L #	76
24) METHYL TERT-BUTYL ETHE...	2.602	73	82295	8.44	UG/L	95
25) TRANS 1,2-DICHLOROETHENE	2.465	61	51306	9.43	UG/L	97
26) 1,1-DICHLOROETHANE	2.680	63	66617	9.84	UG/L	98
28) VINYL ACETATE	2.895	43	508757	78.81	UG/L	97
30) DI ISOPROYL ETHER	3.216	45	107777	9.44	UG/L	91
31) 2-BUTANONE	3.177	43	165220m	91.36	UG/L	
33) T-BUTYL ETHYL ETHER	3.620	59	92773	8.82	UG/L	96
34) CIS-1,2-DICHLOROETHENE	3.252	61	58170	11.18	UG/L	93
35) 2,2-DICHLOROPROPANE	3.520	77	35647	7.82	UG/L	99
36) ETHYL ACETATE	3.581	43	34983	9.97	UG/L #	94
37) BROMOCHLOROMETHANE	3.397	49	27992	9.90	UG/L	81
38) TETRAHYDROFURAN	3.812	42	9901	9.32	UG/L	89
40) CHLOROFORM	3.469	83	65311	9.31	UG/L	98
42) 1,1,1-TRICHLOROETHANE	4.167	97	102917	19.47	UG/L	96
43) CYCLOHEXANE	4.404	56	69808	9.66	UG/L	93
44) CARBON TETRACHLORIDE	4.498	117	46440	9.96	UG/L	100
45) 1,1-DICHLOROPROPENE	4.367	75	52645	9.82	UG/L	96
46) BENZENE	4.557	78	151242	9.30	UG/L	99
48) T-AMYL METHYL ETHER	4.808	73	80955	8.41	UG/L #	91
51) 1,2-DICHLOROETHANE	4.100	62	40936	8.67	UG/L #	62
53) TRICHLOROETHENE	5.184	95	196440	48.60	UG/L	97
54) METHYLCYCLOHEXANE	5.625	83	63800	9.94	UG/L	95
55) 1,2-DICHLOROPROPANE	5.137	63	37085	9.03	UG/L #	92

Data Path : C:\msdchem\1\DATA\E033123\
 Data File : E23V09028.D
 Acq On : 31 Mar 2023 7:57 pm
 Operator :
 Sample : 23C3284-02 @ MSD
 Misc : 1
 ALS Vial : 22 Sample Multiplier: 1

Inst : GCMSVOA5

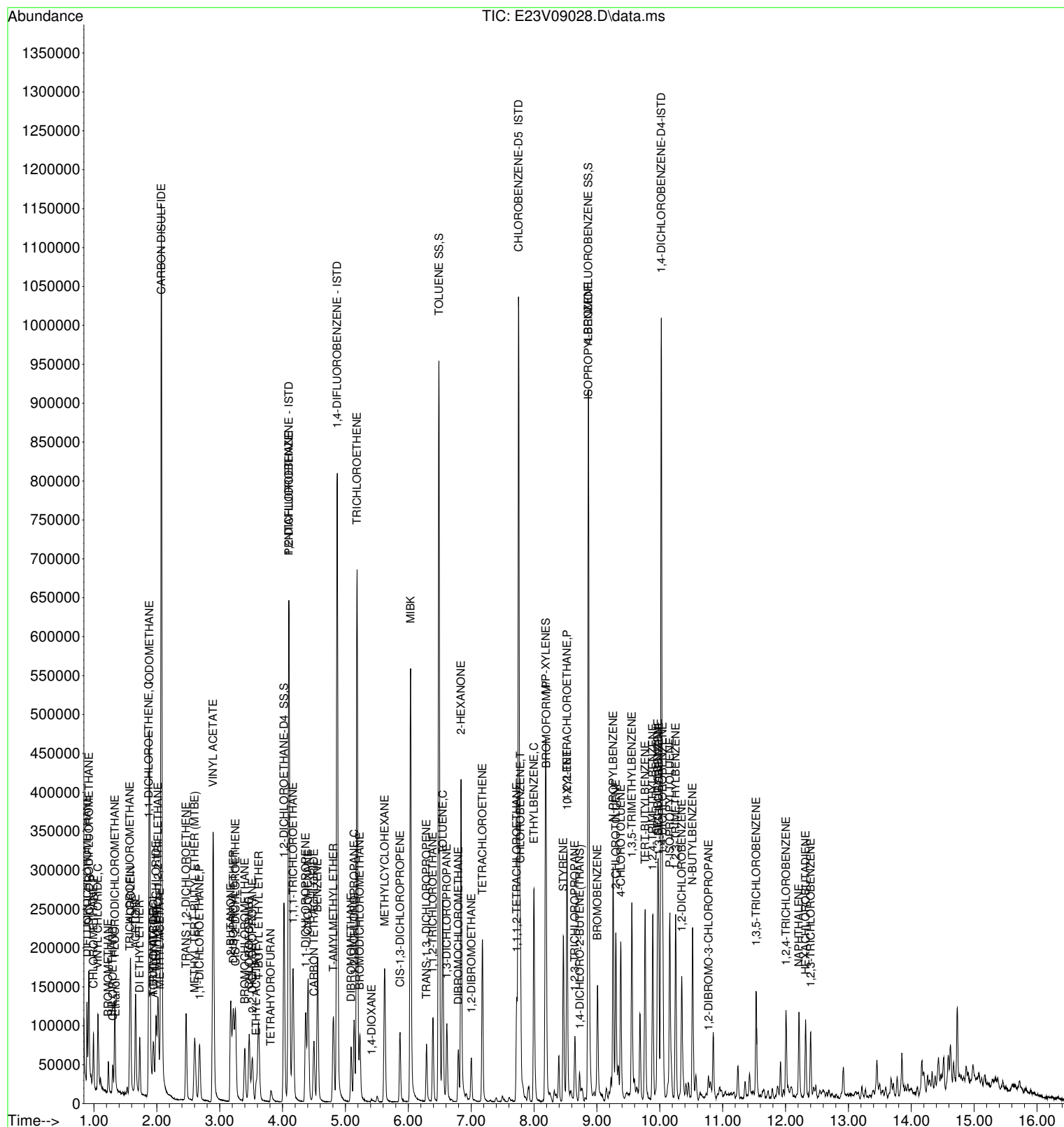
Quant Time: Apr 03 08:03:10 2023
 Quant Method : C:\msdchem\1\METHODS\E020923W.m
 Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
 QLast Update : Fri Feb 10 07:57:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) DIBROMOMETHANE	5.090	93	22426	9.67	UG/L	98
57) 1,4-DIOXANE	5.416	88	3489m	87.88	UG/L	
58) BROMODICHLOROMETHANE	5.229	83	42375	9.28	UG/L	98
60) MIBK	6.035	43	335064	96.59	UG/L	97
61) CIS-1,3-DICHLOROPROPENE	5.868	75	47660	9.15	UG/L	97
62) TOLUENE	6.548	91	160583	10.02	UG/L	100
63) TRANS-1,3,-DICHLOROPRO...	6.289	75	35048	8.60	UG/L	99
65) 1,1,2-TRICHLOROETHANE	6.389	97	31274	9.63	UG/L	97
66) 2-HEXANONE	6.838	43	230431	93.58	UG/L	95
67) TETRACHLOROETHENE	7.178	166	55577	13.13	UG/L	99
68) 1,3-DICHLOROPROPANE	6.612	76	53505	9.38	UG/L	99
69) DIBROMOCHLOROMETHANE	6.796	129	32012	9.41	UG/L	98
70) 1,2-DIBROMOETHANE	7.003	107	32766	9.65	UG/L	99
73) CHLOROBENZENE	7.781	112	101184	10.57	UG/L	95
74) 1,1,1,2-TETRACHLOROETHANE	7.725	131	33182	10.54	UG/L #	1
75) ETHYLBENZENE	7.998	91	169096	10.60	UG/L	98
76) M/P-XYLENES	8.185	91	259983	20.96	UG/L	100
77) O-XYLENE	8.522	91	127980	10.61	UG/L	99
78) STYRENE	8.464	104	92840	10.27	UG/L	98
79) BROMOFORM	8.193	173	20909	9.80	UG/L	98
80) ISOPROPYLBENZENE	8.860	105	161579	10.57	UG/L	99
82) 1,1,2,2-TETRACHLOROETHANE	8.525	83	41218	10.00	UG/L	99
83) 1,4-DICHLORO-2-BUTENE(...	8.726	53	6857	7.90	UG/L #	74
84) BROMOBENZENE	9.008	77	56381	9.98	UG/L	94
85) 1,2,3-TRICHLOROPROPANE	8.648	75	30826	9.87	UG/L	95
86) N-PROPYLBENZENE	9.256	91	185298	10.78	UG/L	99
87) 2-CHLOROTOLUENE	9.298	91	96799	9.29	UG/L	99
88) 1,3,5-TRIMETHYLBENZENE	9.554	105	118507	10.52	UG/L	99
89) 4-CHLOROTOLUENE	9.378	91	103820	10.17	UG/L	100
91) TERT-BUTYLBENZENE	9.766	119	105028	10.71	UG/L	99
92) 1,2,4-TRIMETHYLBENZENE	9.886	105	112895	10.20	UG/L	96
93) SEC-BUTYLBENZENE	9.964	105	145286	10.54	UG/L	99
94) 1,3-DICHLOROBENZENE	9.981	146	66077	9.99	UG/L	99
95) P-ISOPROPYLTOLUENE	10.159	119	117105	10.35	UG/L	99
96) 1,4-DICHLOROBENZENE	10.045	146	66969	9.77	UG/L	97
97) 1,2,3-TRIMETHYLBENZENE	10.251	105	111918	9.93	UG/L	94
98) N-BUTYLBENZENE	10.519	91	105191	10.32	UG/L	98
99) 1,2-DICHLOROBENZENE	10.349	146	58195	9.90	UG/L	96
100) 1,2-DIBROMO-3-CHLOROPR...	10.773	75	4347	8.61	UG/L	95
101) 1,3,5-TRICHLOROBENZENE	11.531	180	39331	9.91	UG/L	98
102) 1,2,4-TRICHLOROBENZENE	12.005	180	29803	9.84	UG/L	96
103) HEXACHLOROBUTADIENE	12.318	225	16209	10.01	UG/L	92
104) NAPHTHALENE	12.212	128	75724	11.31	UG/L	97
105) 1,2,3-TRICHLOROBENZENE	12.399	180	23728	9.91	UG/L	98

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

327

Quant Time: Apr 03 08:03:10 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
Quant Title : 8260 WATER 5MLS VOAMS 5973 #5
QLast Update : Fri Feb 10 07:57:37 2023
Response via : Initial Calibration



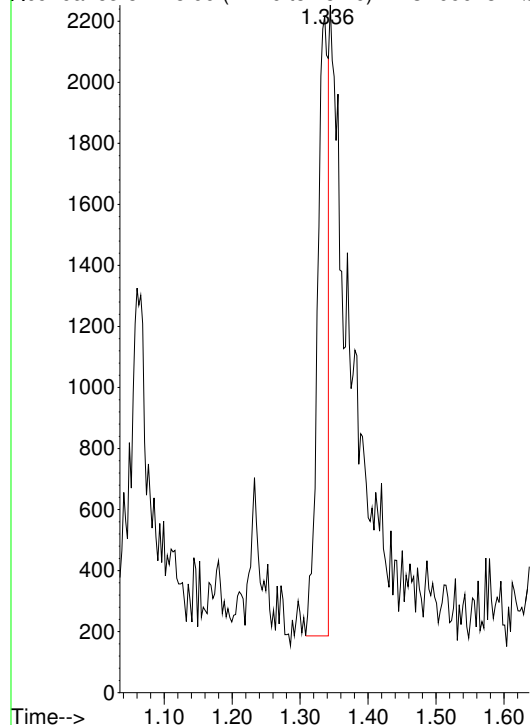
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Data File : E23V09028.D
Acq On : 31 Mar 2023 7:57 pm
Operator :
Sample : 23C3284-02 @ MSD
Misc : 1

Quant Time : Mon Apr 03 08:03:10 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

Ethanol

Abundance on 45.00 (44.70 to 45.70): E23V09028.D



Original Int. Results

RT : 1.34
Area : 2233
Amount: 39.6921

Manual Int. Results

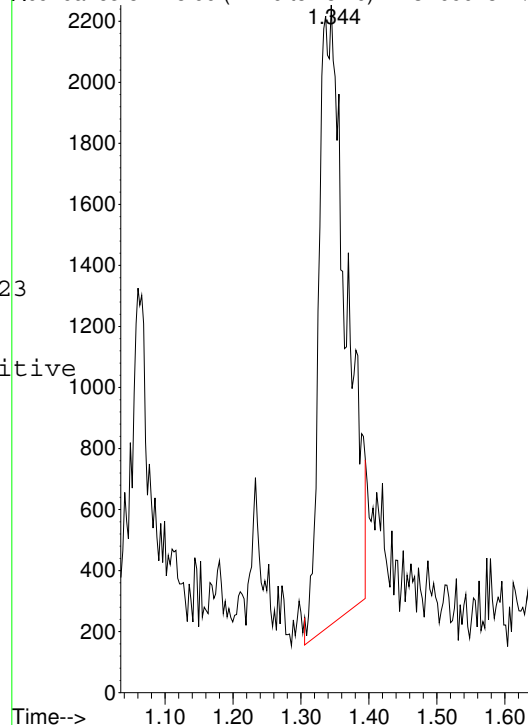
Mon Apr 03 08:02:58 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 1.34
Area : 5606
Amount: 99.6479

Manual Integration

Ethanol

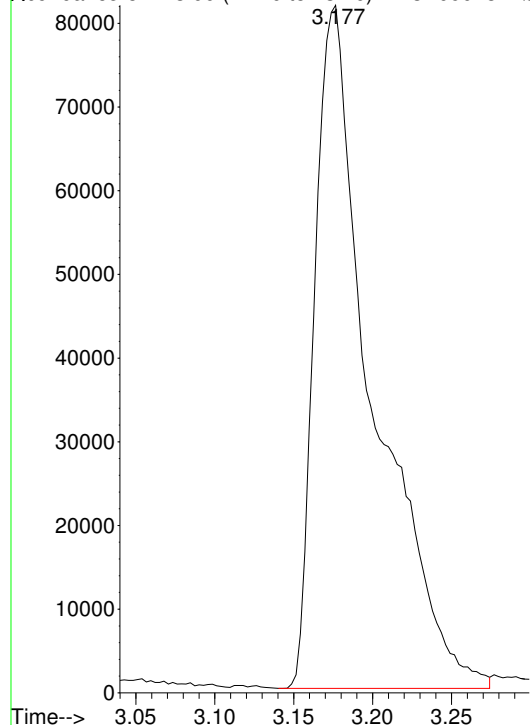
Abundance on 45.00 (44.70 to 45.70): E23V09028.D



Original Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V09028.D



Original Int. Results

RT : 3.18
Area : 208243
Amount: 115.15

Manual Int. Results

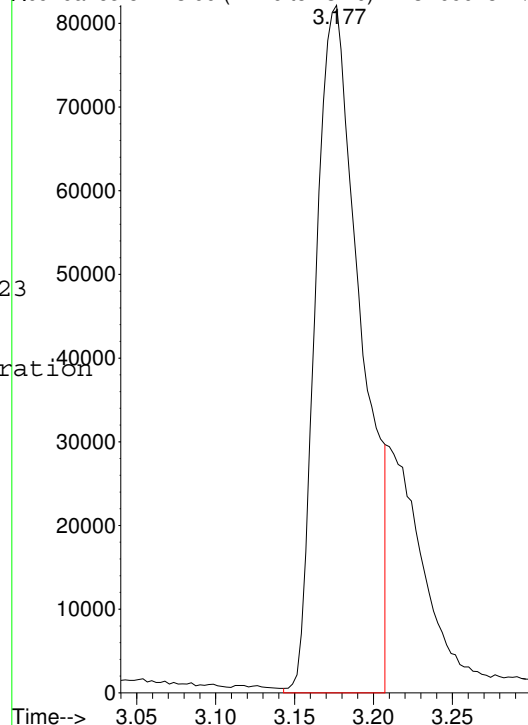
Mon Apr 03 08:03:04 2023

MIuser: eeh
Reason: Incoret Integration
RT : 3.18
Area : 165220
Amount: 91.3601

Manual Integration

2-BUTANONE

Abundance on 43.00 (42.70 to 43.70): E23V09028.D



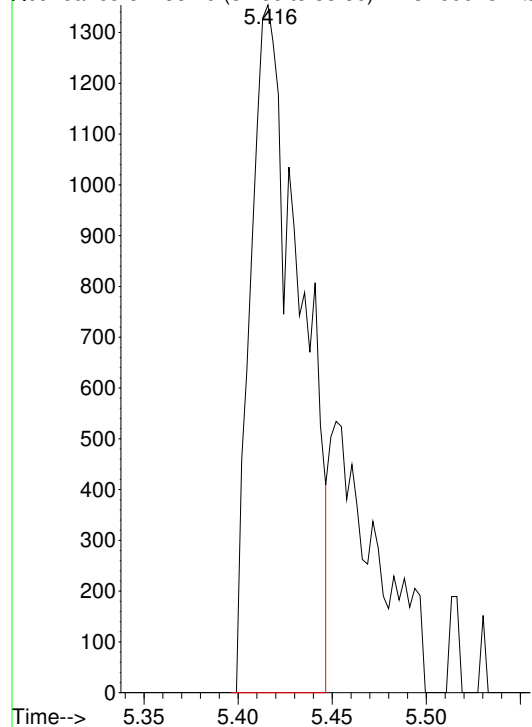
Data Path : C:\msdchem\1\DATA\E033123\
Data File : E23V09028.D
Acq On : 31 Mar 2023 7:57 pm
Operator :
Sample : 23C3284-02 @ MSD
Misc : 1

Quant Time : Mon Apr 03 08:03:10 2023
Quant Method : C:\msdchem\1\METHODS\E020923W.m
QLast Update : Fri Feb 10 07:57:37 2023

Original Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V09028.D.d



Original Int. Results

RT : 5.42
Area : 2489
Amount: 62.6908

Manual Int. Results

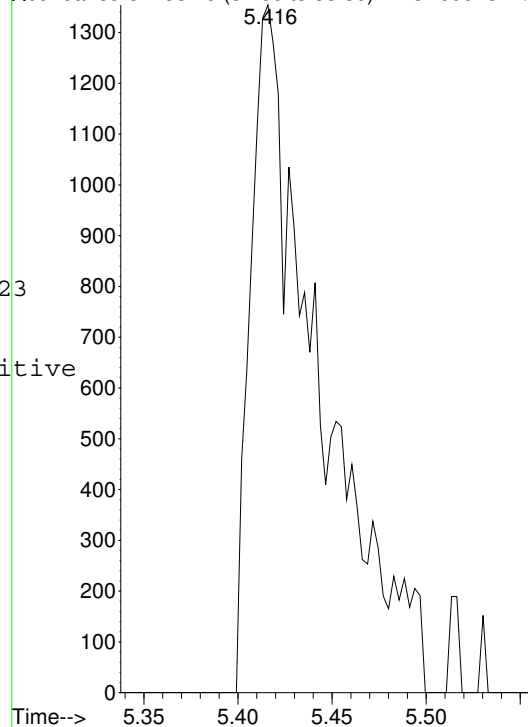
Mon Apr 03 08:03:10 2023

MIuser: eeh
Reason: Qdel False Positive
RT : 5.42
Area : 3489
Amount: 87.8779

Manual Integration

1,4-DIOXANE

Abundance on 88.10 (87.80 to 88.80): E23V09028.D.d



B335720

CON-TEST ANALYTICAL LABORATORY

Printed: 4/3/2023 10:46:26AM

Matrix: Water

Prepared using: VOC - SW-846 5030B

Surrogate used: 2303317

Lab Number	Sample Name	Sample ID Verified (Signature)	Analysis	Due Date	TAT	Initial (mL)	Final (mL)	Spike ID	Source ID	uL Spike	Location	Extraction Comments
23C3284-01	MW-15S		8260 Standard	04/12/23 15:30	10	5	5				Refrigerator 45-1C	CAT B - Report to MDL
23C3284-02	MW-18S		8260 Standard	04/12/23 15:30	10	5	5				Refrigerator 45-1C	CAT B - Report to MDL
23C3284-03	MW-3S		8260 Standard	04/12/23 15:30	10	5	5				Refrigerator 45-1C	CAT B - Report to MDL
23C3284-04	MW-17S		8260 Standard	04/12/23 15:30	10	5	5				Refrigerator 45-1C	CAT B - Report to MDL
23C3284-05	MW-19S		8260 Standard	04/12/23 15:30	10	5	5				Refrigerator 45-1C	CAT B - Report to MDL
23C3284-06	FieldBlank_2023032		8260 Standard	04/12/23 15:30	10	5	5				Refrigerator 45-1C	CAT B - Report to MDL
23C3284-07	TripBlank_20230328		8260 Standard	04/12/23 15:30	10	5	5				Refrigerator 45-1C	CAT B - Report to MDL
23C3284-08	MW-X		8260 Standard	04/12/23 15:30	10	5	5				Refrigerator 45-1C	CAT B - Report to MDL
B335720-BLK1	Blank		QC			5	5					
B335720-BS1	LCS		QC			5	5	2303670		5		
B335720-BSDI	LCS Dup		QC			5	5	2303670		5		
B335720-MS1	Matrix Spike		QC			5	5	2303670	23C3284-02	5		
B335720-MSDI	Matrix Spike Dup		QC			5	5	2303670	23C3284-02	5		

3/31/23#5 1ST

Spiking Witnessed By _____ Date _____ Preparation Reviewed By _____ Date _____ Extracts Received By _____ Date _____

C:\msdchem\1\DATA\E033123\

Date		Filename	Lab ID	Sample Info
31 Mar 2023	7:41 am	E23V09001.D	prime	1
31 Mar 2023	8:08 am	E23V09002.D	8260STD 10PPB 2303196	1
31 Mar 2023	8:35 am	E23V09003.D	B0-BS1	1
31 Mar 2023	9:03 am	E23V09004.D	B0-BSD1	1
31 Mar 2023	9:30 am	E23V09005.D	BLK	1
31 Mar 2023	9:58 am	E23V09006.D	B0-BLK1	1
31 Mar 2023	10:26 am	E23V09007.D	23C3330-02	1
31 Mar 2023	10:53 am	E23V09008.D	23C3284-06	1
31 Mar 2023	11:20 am	E23V09009.D	23C3284-07	1
31 Mar 2023	11:48 am	E23V09010.D	23C3330-01 @ 2X F	2
31 Mar 2023	12:14 pm	E23V09011.D	23C3284-01 @ 20X F	20
31 Mar 2023	12:42 pm	E23V09012.D	23C3284-02	1
31 Mar 2023	1:09 pm	E23V09013.D	23C3284-03	1
31 Mar 2023	1:37 pm	E23V09014.D	23C3284-04	1
31 Mar 2023	2:04 pm	E23V09015.D	23C3284-05	1
31 Mar 2023	2:31 pm	E23V09016.D	23C3284-08	1
31 Mar 2023	2:59 pm	E23V09017.D	23C3072-01RE1	1
31 Mar 2023	3:26 pm	E23V09018.D	23C1574-28 @ 50X MEOH M	50
31 Mar 2023	3:52 pm	E23V09019.D	23C2938-01 @ 200X MEOH	200
31 Mar 2023	4:19 pm	E23V09020.D	23C2938-02 @ 100X MEOH	100
31 Mar 2023	4:47 pm	E23V09021.D	23C2938-03 @ 100X MEOH	100
31 Mar 2023	5:13 pm	E23V09022.D	23C2938-04 @ 100X MEOH	100
31 Mar 2023	5:41 pm	E23V09023.D	23C2938-05 @ 100X MEOH	100
31 Mar 2023	6:07 pm	E23V09024.D	23C2938-06 @ 100X MEOH	100
31 Mar 2023	6:34 pm	E23V09025.D	23C3069-01RE1 @ 25X	25
31 Mar 2023	7:02 pm	E23V09026.D	23C3445-22 @ 25000X MEOH	25000
31 Mar 2023	7:29 pm	E23V09027.D	23C3284-02 @ MS	1
31 Mar 2023	7:57 pm	E23V09028.D	23C3284-02 @ MSD	1
31 Mar 2023	8:24 pm	E23V09029.D	8260STD 10PPB 2303196	1
31 Mar 2023	8:51 pm	E23V09030.D	B0-BS1	1
31 Mar 2023	9:19 pm	E23V09031.D	B0-BSD1	1
31 Mar 2023	9:46 pm	E23V09032.D	BLK	1
31 Mar 2023	10:13 pm	E23V09033.D	B0-BLK1	1
31 Mar 2023	10:41 pm	E23V09034.D	23C3220-06	1
31 Mar 2023	11:08 pm	E23V09035.D	23C3220-05	1
31 Mar 2023	11:36 pm	E23V09036.D	23C3329-02	1
1 Apr 2023	12:03 am	E23V09037.D	23C3329-03	1
1 Apr 2023	12:30 am	E23V09038.D	23C3329-04	1
1 Apr 2023	12:58 am	E23V09039.D	23C3329-05	1
1 Apr 2023	1:26 am	E23V09040.D	23C3329-06	1
1 Apr 2023	1:53 am	E23V09041.D	23C3329-07	1
1 Apr 2023	2:21 am	E23V09042.D	23C3329-12	1
1 Apr 2023	2:49 am	E23V09043.D	23C3220-03	1
1 Apr 2023	3:17 am	E23V09044.D	23C3329-09	1
1 Apr 2023	3:45 am	E23V09045.D	23C3329-13	1
1 Apr 2023	4:12 am	E23V09046.D	23C3329-01 @ 2X	2
1 Apr 2023	4:40 am	E23V09047.D	23C3329-08 @ 400X	400
1 Apr 2023	5:07 am	E23V09048.D	23C3329-10 @ 50X	50
1 Apr 2023	5:35 am	E23V09049.D	23C3329-11 @ 10X	10
1 Apr 2023	6:03 am	E23V09050.D	23C3329-14 @ 100X	100
1 Apr 2023	6:30 am	E23V09051.D	23C3220-01 @ 20X	20
1 Apr 2023	6:57 am	E23V09052.D	23C3220-02 @ 100X	100
1 Apr 2023	7:25 am	E23V09053.D	23C3220-04 @ 100X	100
1 Apr 2023	7:52 am	E23V09054.D	PRIME	1
1 Apr 2023	8:19 am	E23V09055.D	8260STD 10PPB 2303196	1
1 Apr 2023	8:47 am	E23V09056.D	B0-BS1	1
1 Apr 2023	9:14 am	E23V09057.D	B0-BSD1	1
1 Apr 2023	9:41 am	E23V09058.D	BLK	1
1 Apr 2023	10:09 am	E23V09059.D	B0-BLK1	1
1 Apr 2023	10:36 am	E23V09060.D	23C2896-01	1
1 Apr 2023	11:04 am	E23V09061.D	23C3073-01	1
1 Apr 2023	11:31 am	E23V09062.D	23C3078-01	1
1 Apr 2023	11:58 am	E23V09063.D	23C3078-02	1

pH<2
Except:
23C3344-01 pH 5
23C3344-02 pH 5
23C3344-03 pH 4
23C3332-01 pH 6
23C3332-02 pH 5
23C3332-03 pH 5
23C3332-05 pH 6
23C3332-04 pH 6

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Date		Filename	Lab ID	Sample Info
1 Apr 2023	12:25 pm	E23V09064.D	23C3078-03	1
1 Apr 2023	12:52 pm	E23V09065.D	23C3078-04	1
1 Apr 2023	1:19 pm	E23V09066.D	23C3078-05	1
1 Apr 2023	1:47 pm	E23V09067.D	23C2896-02	1
1 Apr 2023	2:15 pm	E23V09068.D	23C2896-03	1
1 Apr 2023	2:42 pm	E23V09069.D	23C2896-11	1
1 Apr 2023	3:09 pm	E23V09070.D	23C2896-12	1
1 Apr 2023	3:37 pm	E23V09071.D	23C2896-13	1
1 Apr 2023	4:04 pm	E23V09072.D	23C2896-04 @ 100X	100
1 Apr 2023	4:32 pm	E23V09073.D	23C2896-05 @ 2X	2
1 Apr 2023	4:59 pm	E23V09074.D	23C2896-06 @ 10X	10
1 Apr 2023	5:27 pm	E23V09075.D	23C2896-07 @ 10X	10
1 Apr 2023	5:54 pm	E23V09076.D	23C2896-08 @ 50X	50
1 Apr 2023	6:21 pm	E23V09077.D	23C2896-09 @ 5X	5
1 Apr 2023	6:48 pm	E23V09078.D	23C2896-10 @ 25X	25
1 Apr 2023	7:16 pm	E23V09079.D	23C3078-05 @ MS	1
1 Apr 2023	7:43 pm	E23V09080.D	23C3078-05 @ MSD	1
1 Apr 2023	8:11 pm	E23V09081.D	8260STD 10PPB 2303196	1
1 Apr 2023	8:38 pm	E23V09082.D	8260STD 10PPB 2303196	1
1 Apr 2023	9:05 pm	E23V09083.D	B0-BS1 @ HCL	1
1 Apr 2023	9:33 pm	E23V09084.D	B0-BSD1 @ HCL	1
1 Apr 2023	10:00 pm	E23V09085.D	BLK	1
1 Apr 2023	10:28 pm	E23V09086.D	BLK	1
1 Apr 2023	10:55 pm	E23V09087.D	B0-BLK1 @ HCL	1
1 Apr 2023	11:23 pm	E23V09088.D	23C3340-01	1
1 Apr 2023	11:50 pm	E23V09089.D	23C3340-02	1
2 Apr 2023	12:18 am	E23V09090.D	23C3340-03	1
2 Apr 2023	12:46 am	E23V09091.D	23C3340-04	1
2 Apr 2023	1:14 am	E23V09092.D	23C3340-05	1
2 Apr 2023	1:41 am	E23V09093.D	23C3344-01	1
2 Apr 2023	2:08 am	E23V09094.D	23C3344-02	1
2 Apr 2023	2:36 am	E23V09095.D	23C3344-03	1
2 Apr 2023	3:03 am	E23V09096.D	23C3332-01	1
2 Apr 2023	3:31 am	E23V09097.D	23C3332-02	1
2 Apr 2023	3:58 am	E23V09098.D	23C3332-03	1
2 Apr 2023	4:27 am	E23V09099.D	23C3332-05	1
2 Apr 2023	4:55 am	E23V09100.D	23C3332-04	1
2 Apr 2023	5:22 am	E23V09101.D	23C3078-06	1
2 Apr 2023	5:49 am	E23V09102.D	23C3078-07	1
3 Apr 2023	5:19 am	E23V09103.D	23C3078-08	1

ICP

SAMPLE DATA

335

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-01
Sampled:	03/28/23 10:02		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:13	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:13	SW-846 6010D
7440-50-8	Copper	0.0075	0.0036	0.010	1	J	B335766	04/11/23 16:13	SW-846 6010D
7440-02-0	Nickel	0.014	0.0098	0.010	1		B335766	04/11/23 16:13	SW-846 6010D

336

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-02
Sampled:	03/28/23 10:50		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:07	SW-846 6010D
7440-47-3	Chromium	0.27	0.0068	0.010	1		B335766	04/11/23 16:07	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:07	SW-846 6010D
7440-02-0	Nickel	0.68	0.0098	0.010	1		B335766	04/11/23 16:07	SW-846 6010D

337

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-03
Sampled:	03/28/23 11:40		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:20	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:20	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:20	SW-846 6010D
7440-02-0	Nickel		0.0098	0.010	1		B335766	04/11/23 16:20	SW-846 6010D

338

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-04
Sampled:	03/28/23 12:34		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:26	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:26	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:26	SW-846 6010D
7440-02-0	Nickel		0.0098	0.010	1		B335766	04/11/23 16:26	SW-846 6010D

339

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-05
Sampled:	03/28/23 13:25		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:32	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:32	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:32	SW-846 6010D
7440-02-0	Nickel		0.0098	0.010	1		B335766	04/11/23 16:32	SW-846 6010D

340

FieldBlank_20230328

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-06
Sampled:	03/28/23 13:45		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:51	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:51	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:51	SW-846 6010D
7440-02-0	Nickel		0.0098	0.010	1		B335766	04/11/23 16:51	SW-846 6010D

341

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-08
Sampled:	03/28/23 00:00		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:57	SW-846 6010D
7440-47-3	Chromium	0.28	0.0068	0.010	1		B335766	04/11/23 16:57	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:57	SW-846 6010D
7440-02-0	Nickel	0.66	0.0098	0.010	1		B335766	04/11/23 16:57	SW-846 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	ICP3	Calibration:	2300441
		Sequence:	S085872

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S085872-ICV1	Cadmium	2.00	2.06	103	mg/L	+/- 10.00%
	Chromium	2.00	2.05	103	mg/L	+/- 10.00%
	Copper	2.00	2.03	102	mg/L	+/- 10.00%
	Nickel	2.00	2.08	104	mg/L	+/- 10.00%
S085872-CCV1	Cadmium	5.00	5.00	100	mg/L	+/- 10.00%
	Chromium	5.00	5.00	100	mg/L	+/- 10.00%
	Copper	5.00	4.95	99.1	mg/L	+/- 10.00%
	Nickel	5.00	5.02	100	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	ICP3	Calibration:	2300441
		Sequence:	S085874

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S085874-CCV1	Cadmium	5.00	5.06	101	mg/L	+/- 10.00%
	Chromium	5.00	5.07	101	mg/L	+/- 10.00%
	Copper	5.00	4.97	99.5	mg/L	+/- 10.00%
	Nickel	5.00	5.07	101	mg/L	+/- 10.00%
S085874-CCV2	Cadmium	5.00	4.95	98.9	mg/L	+/- 10.00%
	Chromium	5.00	4.98	99.7	mg/L	+/- 10.00%
	Copper	5.00	4.82	96.4	mg/L	+/- 10.00%
	Nickel	5.00	4.99	99.7	mg/L	+/- 10.00%
S085874-CCV3	Cadmium	5.00	4.83	96.7	mg/L	+/- 10.00%
	Chromium	5.00	4.86	97.3	mg/L	+/- 10.00%
	Copper	5.00	4.74	94.7	mg/L	+/- 10.00%
	Nickel	5.00	4.86	97.3	mg/L	+/- 10.00%
S085874-CCV4	Cadmium	5.00	4.80	95.9	mg/L	+/- 10.00%
	Chromium	5.00	4.82	96.4	mg/L	+/- 10.00%
	Copper	5.00	4.72	94.5	mg/L	+/- 10.00%
	Nickel	5.00	4.81	96.2	mg/L	+/- 10.00%

LOW-CONCENTRATION CALIBRATION VERIFICATION

344

SW-846 6010D**Laboratory:** Pace New England**SDG:** 23C3284**Client:** NYDEC_Environmental Assessment & Remediation**Project:** Genzale Plating Co. - CO 144183**Calibration:** 2300441**Laboratory ID:** S085872-LCV1**Sequence:** S085872**Standard ID:** 2211109

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Cadmium	0.00400	0.00443	10.6	20.00
Chromium	0.0100	0.0110	10.1	20.00
Copper	0.0100	0.0115	14.7	20.00
Nickel	0.0100	0.0107	6.8	20.00

* Values outside of QC limits

FORM 3 - Blank Summary

345

SW-846 6010D

Laboratory: Pace New England

Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remediation Project: Genzale Plating Co. - CO 144183

Instrument ID: ICP3

Calibration: 2300441

Sequence: S085872

Lab Sample ID	Analyte	Found	Units	RL	C
S085872-ICB1	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U

FORM 3 - Blank Summary

346

SW-846 6010D

Laboratory: Pace New England Work Order: 23C3284
 Client: NYDEC_Environmental Assessment & Remediation Project: Genzale Plating Co. - CO 144183
 Instrument ID: ICP3 Calibration: 2300441
 Sequence: S085874

Lab Sample ID	Analyte	Found	Units	RL	C
S085874-CCB1	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U
B335766-BLK1	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U
S085874-CCB2	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U
S085874-CCB3	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U
S085874-CCB4	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U

INTERFERENCE CHECK SAMPLE

347

SW-846 6010D

Laboratory: Pace New England

Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remediation

Project: Genzale Plating Co. - CO 144183

Instrument ID: ICP3

Calibration: 2300441

Sequence: S085874

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S085874-IFA1	Cadmium	0.0040		0.00		mg/L
	Chromium	0.010		0.00		mg/L
	Copper	0.010		0.00		mg/L
	Nickel	0.010		0.00		mg/L
S085874-IFB1	Cadmium	0.0040	2.00	2.04	102	mg/L
	Chromium	0.010	1.00	0.96	96.5	mg/L
	Copper	0.010	1.00	1.00	100	mg/L
	Nickel	0.010	2.00	1.83	91.3	mg/L
S085874-IFA2	Cadmium	0.0040		0.00		mg/L
	Chromium	0.010		0.00		mg/L
	Copper	0.010		0.00		mg/L
	Nickel	0.010		0.00		mg/L
S085874-IFB2	Cadmium	0.0040	2.00	1.98	99.1	mg/L
	Chromium	0.010	1.00	0.94	94.3	mg/L
	Copper	0.010	1.00	0.96	96.4	mg/L
	Nickel	0.010	2.00	1.77	88.3	mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

348

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Analysis:	SW-846 6010D
Batch:	B335766	Preparation:	SW-846 3005A
% Solids:		Laboratory ID:	B335766-MS1
Column:		Sample Lab ID:	23C3284-02

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Cadmium	0.500	ND	0.491	98.3	75 - 125
Chromium	0.500	0.275	0.747	94.4	75 - 125
Copper	1.00	ND	0.928	92.8	75 - 125
Nickel	0.500	0.676	1.13	90.4	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Cadmium	0.500	0.516	103	4.78	20	75 - 125
Chromium	0.500	0.777	100	3.99	20	75 - 125
Copper	1.00	0.977	97.7	5.19	20	75 - 125
Nickel	0.500	1.17	98.1	3.34	20	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Preparation:	SW-846 3005A
Batch:	B335766	Laboratory ID:	B335766-BS1
Column:		Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Cadmium	0.500	0.509	102	80 - 120
Chromium	0.500	0.504	101	80 - 120
Copper	1.00	0.944	94.4	80 - 120
Nickel	0.500	0.513	103	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Cadmium	0.500	0.507	101	0.290	20	80 - 120
Chromium	0.500	0.504	101	0.0789	20	80 - 120
Copper	1.00	0.946	94.6	0.294	20	80 - 120
Nickel	0.500	0.510	102	0.582	30	80 - 120

METHOD DETECTION AND REPORTING LIMITS

350

Laboratory: Pace New England

Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remediation

Matrix: Water

Instrument: ICP3

Analyte	MDL	MRL	Units	Method
Cadmium	0.0018	0.0040	mg/L	SW-846 6010D
Chromium	0.0068	0.010	mg/L	SW-846 6010D
Copper	0.0036	0.010	mg/L	SW-846 6010D
Nickel	0.0098	0.010	mg/L	SW-846 6010D

PREPARATION BATCH SUMMARY

351

SW-846 6010D

Laboratory: Pace New England Work Order: 23C3284
 Client: NYDEC_Environmental Assessment & Remediation Project: Genzale Plating Co. - CO 144183
 Batch: B335766 Batch Matrix: Water Preparation: SW-846 3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MW-15S	23C3284-01	03/31/23 10:10	50.00	50.00
MW-18S	23C3284-02	03/31/23 10:10	50.00	50.00
MW-3S	23C3284-03	03/31/23 10:10	50.00	50.00
MW-17S	23C3284-04	03/31/23 10:10	50.00	50.00
MW-19S	23C3284-05	03/31/23 10:10	50.00	50.00
FieldBlank_20230328	23C3284-06	03/31/23 10:10	50.00	50.00
MW-X	23C3284-08	03/31/23 10:10	50.00	50.00
Blank	B335766-BLK1	03/31/23 10:10	50.00	50.00
LCS	B335766-BS1	03/31/23 10:10	50.00	50.00
LCS Dup	B335766-BSD1	03/31/23 10:10	50.00	50.00
MW-18S	B335766-MS1	03/31/23 10:10	50.00	50.00
MW-18S	B335766-MSD1	03/31/23 10:10	50.00	50.00

S085872

Instrument: ICP3

Calibration ID: 2300441

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S085872-CAL1	QC		1		2211107	2304167	
S085872-CAL2	QC		2		2211088	2304167	
S085872-CAL3	QC		3		2211089	2304167	
S085872-CAL4	QC		4		2211090	2304167	
S085872-CAL5	QC		5		2211091	2304167	
S085872-CAL6	QC		6		2211092	2304167	
S085872-ICV1	QC		7		2211094	2304167	
S085872-ICV2	QC		8		2211108	2304167	
S085872-ICB1	QC		9		2211096	2304167	
S085872-LCV1	QC		10		2211109	2304167	
S085872-LCV2	QC		11		2211112	2304167	
S085872-LCV3	QC		12		2301638	2304167	
S085872-CCV1	QC		13		2211103	2304167	
S085872-IFA1	QC		14		2211113	2304167	
S085872-IFB1	QC		15		2304164	2304167	
S085872-HCV1	QC		16		2303666	2304167	
S085872-HCV2	QC		17		2303569	2304167	

Samples Loaded By

Date

Data Processed By

Date

2.5	15.0	20354.9
3.0	15.0	21579.1
3.5	15.0	9779.2
4.0	15.0	831.1
4.5	15.0	1263.2
5.0	15.0	2139.1
5.5	15.0	2393.3
6.0	15.0	2541.9
6.5	15.0	1981.8

4/11/2023 8:29:33 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 44409.6 for Radial viewing

Method Loaded

Method Name: ICP3 IEC 030523

IEC File: 0402A23.iec

Method Description: Soils and Waters

Method Last Saved: 4/6/2023 10:17:43 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 1

Sample ID: Cal Blank@2211107

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2023 8:33:45 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: Cal Blank@2211107

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Y radial	149490.5	1973.19	1.32%	100 %	
Y axial	3154584.0	17915.72	0.57%	100 %	
Ag 328.068†	100.3	41.49	41.35%	[0.00] mg/L	
Al 396.153†	46.7	22.45	48.08%	[0.00] mg/L	
As 188.979†	-48.3	4.12	8.54%	[0.00] mg/L	
B 208.889†	204.5	9.81	4.80%	[0.00] mg/L	
Ba 233.527†	-318.6	6.97	2.19%	[0.00] mg/L	
Be 313.107†	499.1	7.32	1.47%	[0.00] mg/L	
Ca 317.933†	726.6	11.59	1.60%	[0.00] mg/L	

Cd 228.802†	115.2	7.79	6.76%	[0.00]	mg/L
Co 228.616†	-43.9	3.99	9.11%	[0.00]	mg/L
Cr 267.716†	207.5	8.48	4.09%	[0.00]	mg/L
Cu 327.393†	-283.9	31.35	11.04%	[0.00]	mg/L
Fe 238.204†	28.1	1.36	4.82%	[0.00]	mg/L
K 766.490†	378.1	21.68	5.73%	[0.00]	mg/L
Mg 285.213†	85.7	2.35	2.74%	[0.00]	mg/L
Mn 257.610†	-88.3	7.83	8.88%	[0.00]	mg/L
Mo 202.031†	-1.5	6.71	441.83%	[0.00]	mg/L
Na 589.592†	385.7	7.39	1.92%	[0.00]	mg/L
Ni 231.604†	26.6	5.21	19.57%	[0.00]	mg/L
Pb 220.353†	43.0	3.93	9.14%	[0.00]	mg/L
Sb 206.836†	130.7	11.26	8.62%	[0.00]	mg/L
Se 196.026†	-20.4	8.93	43.79%	[0.00]	mg/L
Sn 189.927†	50.8	1.56	3.08%	[0.00]	mg/L
Ti 337.279†	-150.2	2.20	1.47%	[0.00]	mg/L
Tl 351.924†	83.6	61.53	73.58%	[0.00]	mg/L
V 290.880†	1103.5	10.70	0.97%	[0.00]	mg/L
Zn 206.200†	-306.1	7.25	2.37%	[0.00]	mg/L
Zr 343.823†	207.4	29.64	14.29%	[0.00]	mg/L

User canceled analysis.

Method Loaded

Method Name: ICP3 IEC040523

IEC File: 0402A23.iec

Method Description: Soils and Waters

Method Last Saved: 4/5/2023 7:54:32 PM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 1

Sample ID: Cal Blank@2211107

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2023 8:41:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: Cal Blank@2211107

Mean Corrected

Calib

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y radial	149891.7	1805.79	1.20%	100	%
Y axial	3153441.2	25098.95	0.80%	100	%
Ag 328.068†	73.7	71.12	96.49%	[0.00]	mg/L
Al 396.153†	49.8	26.33	52.93%	[0.00]	mg/L
As 188.979†	-51.4	2.74	5.34%	[0.00]	mg/L
B 208.889†	199.8	2.27	1.14%	[0.00]	mg/L
Ba 233.527†	-313.2	5.96	1.90%	[0.00]	mg/L
Be 313.107†	508.6	12.15	2.39%	[0.00]	mg/L
Ca 317.933†	741.8	16.42	2.21%	[0.00]	mg/L
Cd 228.802†	111.0	1.04	0.93%	[0.00]	mg/L
Co 228.616†	-42.3	6.04	14.28%	[0.00]	mg/L
Cr 267.716†	214.4	15.39	7.18%	[0.00]	mg/L
Cu 327.393†	-252.8	46.48	18.39%	[0.00]	mg/L
Fe 238.204†	26.3	0.82	3.11%	[0.00]	mg/L
K 766.490†	289.8	36.32	12.53%	[0.00]	mg/L
Mg 285.213†	81.4	2.36	2.90%	[0.00]	mg/L
Mn 257.610†	-101.1	3.29	3.25%	[0.00]	mg/L
Mo 202.031†	1.8	1.25	68.91%	[0.00]	mg/L
Na 589.592†	361.3	75.24	20.82%	[0.00]	mg/L
Ni 231.604†	25.9	6.98	26.94%	[0.00]	mg/L
Pb 220.353†	31.4	5.66	18.05%	[0.00]	mg/L
Sb 206.836†	126.0	3.70	2.94%	[0.00]	mg/L
Se 196.026†	-26.8	5.45	20.30%	[0.00]	mg/L
Sn 189.927†	53.9	4.77	8.86%	[0.00]	mg/L
Ti 337.279†	-153.3	8.19	5.35%	[0.00]	mg/L
Tl 351.924†	89.3	63.90	71.53%	[0.00]	mg/L
V 290.880†	1132.4	7.49	0.66%	[0.00]	mg/L
Zn 206.200†	-302.2	8.40	2.78%	[0.00]	mg/L
Zr 343.823†	206.0	8.39	4.07%	[0.00]	mg/L

Sequence No.: 2

Sample ID: SEQ-CAL1@2211088

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

User canceled analysis.

Autosampler Location: 2

Date Collected: 4/11/2023 8:47:25 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Sequence No.: 1

Sample ID: Cal Blank@2211107

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2023 8:48:31 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: Cal Blank@2211107

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	152776.6	2862.80	1.87%	102	%
Y axial	3239273.5	60916.95	1.88%	103	%
Ag 328.068†	70.4	11.99	17.03%	[0.00]	mg/L
Al 396.153†	54.7	22.40	40.95%	[0.00]	mg/L
As 188.979†	-47.9	2.18	4.56%	[0.00]	mg/L
B 208.889†	192.9	6.78	3.51%	[0.00]	mg/L
Ba 233.527†	-316.9	7.21	2.28%	[0.00]	mg/L
Be 313.107†	483.4	20.51	4.24%	[0.00]	mg/L
Ca 317.933†	734.7	15.15	2.06%	[0.00]	mg/L
Cd 228.802†	106.1	5.87	5.53%	[0.00]	mg/L
Co 228.616†	-47.3	4.27	9.04%	[0.00]	mg/L
Cr 267.716†	211.7	3.00	1.42%	[0.00]	mg/L
Cu 327.393†	-314.1	7.85	2.50%	[0.00]	mg/L
Fe 238.204†	26.5	1.53	5.79%	[0.00]	mg/L
K 766.490†	321.7	42.88	13.33%	[0.00]	mg/L
Mg 285.213†	90.5	3.41	3.77%	[0.00]	mg/L
Mn 257.610†	-98.6	6.10	6.18%	[0.00]	mg/L
Mo 202.031†	4.1	0.95	22.97%	[0.00]	mg/L

Na 589.592†	345.0	68.47	19.85%	[0.00]	mg/L
Ni 231.604†	25.4	13.81	54.29%	[0.00]	mg/L
Pb 220.353†	31.2	11.97	38.36%	[0.00]	mg/L
Sb 206.836†	127.0	5.52	4.35%	[0.00]	mg/L
Se 196.026†	-21.2	6.16	29.06%	[0.00]	mg/L
Sn 189.927†	58.6	6.77	11.54%	[0.00]	mg/L
Ti 337.279†	-137.5	5.03	3.66%	[0.00]	mg/L
Tl 351.924†	49.3	23.82	48.36%	[0.00]	mg/L
V 290.880†	1124.3	16.02	1.42%	[0.00]	mg/L
Zn 206.200†	-293.2	11.00	3.75%	[0.00]	mg/L
Zr 343.823†	231.0	24.54	10.63%	[0.00]	mg/L

Sequence No.: 2

Sample ID: SEQ-CAL1@2211088

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 2

Date Collected: 4/11/2023 8:54:21 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL1@2211088

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151799.5	1019.71	0.67%	101	%
Y axial	3133012.7	23206.16	0.74%	99.4	%
Ag 328.068†	6126.5	114.82	1.87%	[0.0625]	mg/L
Al 396.153†	1137.5	6.14	0.54%	[0.25]	mg/L
As 188.979†	246.5	1.36	0.55%	[0.125]	mg/L
B 208.889†	1497.6	16.63	1.11%	[0.125]	mg/L
Ba 233.527†	13598.4	166.93	1.23%	[0.125]	mg/L
Be 313.107†	21546.8	59.19	0.27%	[0.125]	mg/L
Cd 228.802†	6180.6	61.70	1.00%	[0.125]	mg/L
Co 228.616†	6307.7	64.51	1.02%	[0.125]	mg/L
Cr 267.716†	9864.0	111.01	1.13%	[0.125]	mg/L
Cu 327.393†	19869.2	169.47	0.85%	[0.125]	mg/L
Fe 238.204†	12.8	1.67	13.11%	[0.125]	mg/L
Mg 285.213†	2481.0	20.78	0.84%	[0.25]	mg/L
Mn 257.610†	763.8	10.27	1.34%	[0.125]	mg/L
Mo 202.031†	2922.4	24.47	0.84%	[0.125]	mg/L
Ni 231.604†	6204.8	138.21	2.23%	[0.125]	mg/L
Pb 220.353†	949.1	15.87	1.67%	[0.125]	mg/L
Sb 206.836†	458.2	5.78	1.26%	[0.125]	mg/L
Se 196.026†	336.9	4.52	1.34%	[0.125]	mg/L
Sn 189.927†	867.6	7.54	0.87%	[0.125]	mg/L
Ti 337.279†	2174.4	21.95	1.01%	[0.125]	mg/L
Tl 351.924†	349.4	2.02	0.58%	[0.0625]	mg/L
V 290.880†	10278.9	66.22	0.64%	[0.125]	mg/L
Zn 206.200†	5314.2	49.05	0.92%	[0.125]	mg/L
Zr 343.823†	34751.4	236.18	0.68%	[0.125]	mg/L

Sequence No.: 3

Sample ID: SEQ-CAL2@2211089

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 3

Date Collected: 4/11/2023 9:02:03 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL2@2211089

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151468.5	1393.00	0.92%	101	%
Y axial	3209160.7	68038.73	2.12%	102	%
Ag 328.068†	23891.8	412.34	1.73%	[0.25]	mg/L
Al 396.153†	4447.7	21.75	0.49%	[1]	mg/L
As 188.979†	936.1	23.67	2.53%	[0.5]	mg/L
B 208.889†	5783.3	145.24	2.51%	[0.5]	mg/L
Ba 233.527†	52353.0	1070.74	2.05%	[0.5]	mg/L

Be 313.107†	85610.0	167.22	0.20%	[0.5] mg/L
Ca 317.933†	5026.9	47.43	0.94%	[1] mg/L
Cd 228.802†	23684.6	543.09	2.29%	[0.5] mg/L
Co 228.616†	24411.2	460.45	1.89%	[0.5] mg/L
Cr 267.716†	37931.3	777.76	2.05%	[0.5] mg/L
Cu 327.393†	78190.6	1437.73	1.84%	[0.5] mg/L
Fe 238.204†	53.8	1.46	2.71%	[0.5] mg/L
Mg 285.213†	9993.0	30.04	0.30%	[1] mg/L
Mn 257.610†	3053.3	29.85	0.98%	[0.5] mg/L
Mo 202.031†	11212.9	262.62	2.34%	[0.5] mg/L
Ni 231.604†	24174.0	553.49	2.29%	[0.5] mg/L
Pb 220.353†	3675.2	85.00	2.31%	[0.5] mg/L
Sb 206.836†	1738.8	50.46	2.90%	[0.5] mg/L
Se 196.026†	1292.8	37.04	2.87%	[0.5] mg/L
Sn 189.927†	3354.9	84.86	2.53%	[0.5] mg/L
Ti 337.279†	8642.2	47.70	0.55%	[0.5] mg/L
Tl 351.924†	1385.0	37.62	2.72%	[0.25] mg/L
V 290.880†	39286.3	764.81	1.95%	[0.5] mg/L
Zn 206.200†	20770.2	462.22	2.23%	[0.5] mg/L
Zr 343.823†	135209.7	2649.58	1.96%	[0.5] mg/L

Sequence No.: 4

Sample ID: SEQ-CAL3@2211090

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 4

Date Collected: 4/11/2023 9:09:45 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL3@2211090

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	153463.2	1040.82	0.68%	102 %
Y axial	3169611.7	20752.65	0.65%	101 %
Ag 328.068†	48723.4	364.34	0.75%	[0.5] mg/L
Al 396.153†	8565.0	61.04	0.71%	[2] mg/L
As 188.979†	1897.6	28.30	1.49%	[1] mg/L
B 208.889†	11931.9	154.25	1.29%	[1] mg/L
Ba 233.527†	105361.9	126.07	0.12%	[1] mg/L
Be 313.107†	168507.7	168.66	0.10%	[1] mg/L
Ca 317.933†	9629.4	43.49	0.45%	[2] mg/L
Cd 228.802†	47569.1	163.70	0.34%	[1] mg/L
Co 228.616†	49053.6	20.14	0.04%	[1] mg/L
Cr 267.716†	76207.6	153.52	0.20%	[1] mg/L
Cu 327.393†	157698.0	480.90	0.30%	[1] mg/L
Fe 238.204†	106.3	1.37	1.29%	[1] mg/L
K 766.490†	3052.9	41.16	1.35%	[2] mg/L
Mg 285.213†	19117.4	18.55	0.10%	[2] mg/L
Mn 257.610†	5976.8	43.25	0.72%	[1] mg/L
Mo 202.031†	23121.4	298.14	1.29%	[1] mg/L
Na 589.592†	12564.6	14.79	0.12%	[2] mg/L
Ni 231.604†	48499.1	149.52	0.31%	[1] mg/L
Pb 220.353†	7380.9	93.01	1.26%	[1] mg/L
Sb 206.836†	3599.6	45.86	1.27%	[1] mg/L
Se 196.026†	2627.7	38.79	1.48%	[1] mg/L
Sn 189.927†	6886.5	91.23	1.32%	[1] mg/L
Ti 337.279†	17445.5	59.36	0.34%	[1] mg/L
Tl 351.924†	2761.9	40.21	1.46%	[0.5] mg/L
V 290.880†	79874.6	84.48	0.11%	[1] mg/L
Zn 206.200†	41845.6	183.31	0.44%	[1] mg/L
Zr 343.823†	278150.9	260.61	0.09%	[1] mg/L

Sequence No.: 5

Sample ID: SEQ-CAL4@2211091

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 9:17:24 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL4@2211091

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	154948.8	1395.30	0.90%	103	%
Y axial	3216876.2	53266.55	1.66%	102	%
Ag 328.068†	216814.6	6657.95	3.07%	[2.5]	mg/L
Al 396.153†	42780.8	19.55	0.05%	[10]	mg/L
As 188.979†	9345.6	202.35	2.17%	[5]	mg/L
B 208.889†	59634.4	1577.47	2.65%	[5]	mg/L
Ba 233.527†	505861.0	13778.29	2.72%	[5]	mg/L
Be 313.107†	837980.9	2335.69	0.28%	[5]	mg/L
Ca 317.933†	48089.3	131.06	0.27%	[10]	mg/L
Cd 228.802†	229369.0	6467.98	2.82%	[5]	mg/L
Co 228.616†	234616.7	6636.52	2.83%	[5]	mg/L
Cr 267.716†	367109.5	9934.65	2.71%	[5]	mg/L
Cu 327.393†	771053.2	22528.16	2.92%	[5]	mg/L
Fe 238.204†	522.7	0.65	0.13%	[5]	mg/L
K 766.490†	15403.7	109.58	0.71%	[10]	mg/L
Mg 285.213†	94847.5	254.08	0.27%	[10]	mg/L
Mn 257.610†	29819.8	69.64	0.23%	[5]	mg/L
Mo 202.031†	112837.0	3214.85	2.85%	[5]	mg/L
Na 589.592†	63135.6	111.68	0.18%	[10]	mg/L
Ni 231.604†	231237.8	6401.05	2.77%	[5]	mg/L
Pb 220.353†	35226.3	892.86	2.53%	[5]	mg/L
Sb 206.836†	17889.3	581.47	3.25%	[5]	mg/L
Se 196.026†	12894.0	346.86	2.69%	[5]	mg/L
Sn 189.927†	33821.7	913.01	2.70%	[5]	mg/L
Ti 337.279†	88855.0	262.06	0.29%	[5]	mg/L
Tl 351.924†	13439.5	361.82	2.69%	[2.5]	mg/L
V 290.880†	388470.1	10977.61	2.83%	[5]	mg/L
Zn 206.200†	201695.0	5620.62	2.79%	[5]	mg/L
Zr 343.823†	1377398.8	38726.80	2.81%	[5]	mg/L

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Sequence No.: 6

Sample ID: SEQ-CAL5@2211092

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 6

Date Collected: 4/11/2023 9:24:10 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL5@2211092

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	155109.1	1376.38	0.89%	103	%
Y axial	3114305.9	35616.28	1.14%	98.8	%
Ag 328.068†	423575.3	5030.58	1.19%	[5]	mg/L
Al 396.153†	85809.5	48.24	0.06%	[20]	mg/L
As 188.979†	19167.7	216.90	1.13%	[10]	mg/L
B 208.889†	121453.9	746.08	0.61%	[10]	mg/L
Ba 233.527†	1024147.0	793.94	0.08%	[10]	mg/L
Be 313.107†	1654879.5	1206.47	0.07%	[10]	mg/L
Ca 317.933†	96270.2	120.44	0.13%	[20]	mg/L
Cd 228.802†	465002.8	141.98	0.03%	[10]	mg/L
Co 228.616†	473533.4	704.11	0.15%	[10]	mg/L
Cr 267.716†	746007.5	1350.04	0.18%	[10]	mg/L
Cu 327.393†	1588253.2	3959.77	0.25%	[10]	mg/L
Fe 238.204†	1039.1	8.57	0.82%	[10]	mg/L
K 766.490†	31086.6	69.22	0.22%	[20]	mg/L
Mg 285.213†	188198.5	316.43	0.17%	[20]	mg/L
Mn 257.610†	58862.4	19.34	0.03%	[10]	mg/L
Mo 202.031†	229744.3	529.64	0.23%	[10]	mg/L
Na 589.592†	126756.2	200.21	0.16%	[20]	mg/L
Ni 231.604†	466029.7	911.64	0.20%	[10]	mg/L
Pb 220.353†	70640.3	352.09	0.50%	[10]	mg/L
Sb 206.836†	36539.9	294.72	0.81%	[10]	mg/L
Se 196.026†	26320.4	80.23	0.30%	[10]	mg/L

Sn 189.927†	68242.1	466.94	0.68%	[10] mg/L
Ti 337.279†	177149.9	27.95	0.02%	[10] mg/L
Tl 351.924†	19812.2	923.23	4.66%	[5] mg/L
V 290.880†	796334.4	1007.93	0.13%	[10] mg/L
Zn 206.200†	406145.5	752.90	0.19%	[10] mg/L
Zr 343.823†	2817871.0	3517.08	0.12%	[10] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	5	Lin Thru 0	0.0	85240	0.00000	0.999858	
Al 396.153	5	Lin Thru 0	0.0	4288	0.00000	0.999998	
As 188.979	5	Lin Thru 0	0.0	1907	0.00000	0.999950	
B 208.889	5	Lin Thru 0	0.0	12100	0.00000	0.999971	
Ba 233.527	5	Lin Thru 0	0.0	102200	0.00000	0.999984	
Be 313.107	5	Lin Thru 0	0.0	165900	0.00000	0.999985	
Ca 317.933	4	Lin Thru 0	0.0	4813	0.00000	0.999998	
Cd 228.802	5	Lin Thru 0	0.0	46390	0.00000	0.999982	
Co 228.616	5	Lin Thru 0	0.0	47280	0.00000	0.999987	
Cr 267.716	5	Lin Thru 0	0.0	74380	0.00000	0.999977	
Cu 327.393	5	Lin Thru 0	0.0	157900	0.00000	0.999932	
Fe 238.204	5	Lin Thru 0	0.0	104.1	0.00000	0.999994	
K 766.490	3	Lin Thru 0	0.0	1551	0.00000	0.999993	
Mg 285.213	5	Lin Thru 0	0.0	9427	0.00000	0.999990	
Mn 257.610	5	Lin Thru 0	0.0	5903	0.00000	0.999984	
Mo 202.031	5	Lin Thru 0	0.0	22890	0.00000	0.999974	
Na 589.592	3	Lin Thru 0	0.0	6333	0.00000	0.999999	
Ni 231.604	5	Lin Thru 0	0.0	46550	0.00000	0.999987	
Pb 220.353	5	Lin Thru 0	0.0	7063	0.00000	0.999989	
Sb 206.836	5	Lin Thru 0	0.0	3638	0.00000	0.999963	
Se 196.026	5	Lin Thru 0	0.0	2621	0.00000	0.999967	
Sn 189.927	5	Lin Thru 0	0.0	6813	0.00000	0.999993	
Ti 337.279	5	Lin Thru 0	0.0	17720	0.00000	0.999998	
Tl 351.924	5	Lin Thru 0	0.0	4258	0.00000	0.990948	
V 290.880	5	Lin Thru 0	0.0	79250	0.00000	0.999952	
Zn 206.200	5	Lin Thru 0	0.0	40570	0.00000	0.999992	
Zr 343.823	5	Lin Thru 0	0.0	280500	0.00000	0.999958	

APPROVED

By ATP at 9:54 am, Apr 12, 2023

Method Loaded

Method Name: ICP3 IEC040523

IEC File: 0402A23.iec

Method Description: Soils and Waters

Method Last Saved: 4/5/2023 7:54:32 PM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 1

Sample ID: SEQ-ICV @2211094

Analyst:

Initial Sample Wt: RR 04/12/23 ATP

Dilution:

Wash Time (before sample):

Autosampler Location: 8

Date Collected: 4/11/2023 9:32:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SEQ-ICV @2211094

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y radial	156739.2	156739.2	105 %		9:34:15 AM
1	Al 396.153†	8925.3	8480.7	1.898 mg/L	1.898 mg/L	9:34:15 AM
1	Be 313.107†	345520.7	329942.5	1.984 mg/L	1.984 mg/L	9:34:15 AM
1	Ca 317.933†	10447.9	9256.8	1.923 mg/L	1.923 mg/L	9:34:15 AM
1	Fe 238.204†	245.0	207.8	2.008 mg/L	2.008 mg/L	9:34:35 AM
1	K 766.490†	3332.4	2865.2	1.847 mg/L	1.847 mg/L	9:34:15 AM
1	Mg 285.213†	19104.0	18178.9	1.885 mg/L	1.885 mg/L	9:34:15 AM
1	Mn 257.610†	11981.7	11556.9	1.958 mg/L	1.958 mg/L	9:34:15 AM
1	Na 589.592†	13233.4	12310.3	1.944 mg/L	1.944 mg/L	9:34:15 AM
1	Ti 337.279†	35671.9	34250.9	1.932 mg/L	1.932 mg/L	9:34:15 AM
1	Y axial	3213522.5	3213522.5	102 %		9:35:45 AM
1	As 188.979†	3863.5	3839.2	2.030 mg/L	2.030 mg/L	9:36:06 AM
1	B 208.889†	25174.2	24510.7	1.919 mg/L	1.919 mg/L	9:36:06 AM
1	Ba 233.527†	218938.4	215161.9	2.107 mg/L	2.107 mg/L	9:35:45 AM
1	Cd 228.802†	98313.7	96369.4	2.075 mg/L	2.075 mg/L	9:35:45 AM
1	Co 228.616†	100769.2	98932.5	2.090 mg/L	2.090 mg/L	9:35:45 AM
1	Cr 267.716†	157894.3	154730.5	2.081 mg/L	2.081 mg/L	9:35:45 AM
1	Cu 327.393†	328784.7	322951.7	2.052 mg/L	2.052 mg/L	9:35:45 AM
1	Mo 202.031†	47617.4	46723.0	2.041 mg/L	2.041 mg/L	9:35:45 AM
1	Ni 231.604†	100093.2	98196.4	2.108 mg/L	2.108 mg/L	9:35:45 AM

1	Pb 220.353†	14993.0	14681.5	2.085 mg/L	2.085 mg/L	9:36:06 AM
1	Sb 206.836†	7584.4	7315.6	1.972 mg/L	1.972 mg/L	9:36:06 AM
1	Se 196.026†	5370.8	5291.5	2.016 mg/L	2.016 mg/L	9:36:06 AM
1	Sn 189.927†	14218.9	13894.4	2.050 mg/L	2.050 mg/L	9:36:06 AM
1	Tl 351.924†	5905.2	5745.5	1.337 mg/L	1.337 mg/L	9:36:06 AM
1	V 290.880†	168453.8	164180.0	2.124 mg/L	2.124 mg/L	9:35:45 AM
1	Zn 206.200†	87275.9	85937.3	2.126 mg/L	2.126 mg/L	9:35:45 AM
1	Zr 343.823†	578431.7	567386.1	2.023 mg/L	2.023 mg/L	9:35:45 AM
1	Ag 328.068†	93168.2	91355.8	1.065 mg/L	1.065 mg/L	9:37:25 AM
2	Y radial	158647.3	158647.3	106 %		9:34:38 AM
2	Al 396.153†	9080.0	8524.2	1.909 mg/L	1.909 mg/L	9:34:38 AM
2	Be 313.107†	351959.2	332051.5	1.996 mg/L	1.996 mg/L	9:34:38 AM
2	Ca 317.933†	10589.3	9270.2	1.926 mg/L	1.926 mg/L	9:34:38 AM
2	Fe 238.204†	245.4	205.3	1.984 mg/L	1.984 mg/L	9:34:58 AM
2	K 766.490†	3401.5	2892.1	1.864 mg/L	1.864 mg/L	9:34:38 AM
2	Mg 285.213†	19292.1	18136.8	1.881 mg/L	1.881 mg/L	9:34:38 AM
2	Mn 257.610†	12177.5	11604.0	1.966 mg/L	1.966 mg/L	9:34:38 AM
2	Na 589.592†	13381.1	12297.6	1.942 mg/L	1.942 mg/L	9:34:38 AM
2	Ti 337.279†	36302.1	34436.1	1.942 mg/L	1.942 mg/L	9:34:38 AM
2	Y axial	3174225.4	3174225.4	101 %		9:36:08 AM
2	As 188.979†	3887.6	3910.1	2.067 mg/L	2.067 mg/L	9:36:28 AM
2	B 208.889†	25361.9	25003.0	1.960 mg/L	1.960 mg/L	9:36:28 AM
2	Ba 233.527†	214574.8	213486.7	2.091 mg/L	2.091 mg/L	9:36:08 AM
2	Cd 228.802†	96429.2	95691.7	2.060 mg/L	2.060 mg/L	9:36:08 AM
2	Co 228.616†	98828.9	98229.0	2.075 mg/L	2.075 mg/L	9:36:08 AM
2	Cr 267.716†	154888.5	153662.6	2.066 mg/L	2.066 mg/L	9:36:08 AM
2	Cu 327.393†	322006.8	320212.5	2.035 mg/L	2.035 mg/L	9:36:08 AM
2	Mo 202.031†	46722.0	46411.9	2.027 mg/L	2.027 mg/L	9:36:08 AM
2	Ni 231.604†	98370.3	97700.7	2.098 mg/L	2.098 mg/L	9:36:08 AM
2	Pb 220.353†	15101.2	14971.1	2.125 mg/L	2.125 mg/L	9:36:28 AM
2	Sb 206.836†	7629.0	7452.0	2.010 mg/L	2.010 mg/L	9:36:28 AM
2	Se 196.026†	5395.4	5381.3	2.051 mg/L	2.051 mg/L	9:36:28 AM
2	Sn 189.927†	14276.9	14124.9	2.084 mg/L	2.084 mg/L	9:36:28 AM
2	Tl 351.924†	5972.6	5884.3	1.370 mg/L	1.370 mg/L	9:36:28 AM
2	V 290.880†	165542.7	163334.4	2.113 mg/L	2.113 mg/L	9:36:08 AM
2	Zn 206.200†	85564.0	85296.9	2.110 mg/L	2.110 mg/L	9:36:08 AM
2	Zr 343.823†	566426.2	562486.4	2.005 mg/L	2.005 mg/L	9:36:08 AM
2	Ag 328.068†	93251.4	92570.4	1.079 mg/L	1.079 mg/L	9:37:27 AM
3	Y radial	159430.4	159430.4	106 %		9:35:00 AM
3	Al 396.153†	8958.4	8367.7	1.872 mg/L	1.872 mg/L	9:35:00 AM
3	Be 313.107†	348383.7	327056.6	1.966 mg/L	1.966 mg/L	9:35:00 AM
3	Ca 317.933†	10441.0	9081.7	1.887 mg/L	1.887 mg/L	9:35:00 AM
3	Fe 238.204†	242.9	201.9	1.951 mg/L	1.951 mg/L	9:35:20 AM
3	K 766.490†	3351.8	2829.6	1.824 mg/L	1.824 mg/L	9:35:00 AM
3	Mg 285.213†	19168.8	17931.4	1.859 mg/L	1.859 mg/L	9:35:00 AM
3	Mn 257.610†	12119.3	11492.8	1.947 mg/L	1.947 mg/L	9:35:00 AM
3	Na 589.592†	13337.0	12194.1	1.926 mg/L	1.926 mg/L	9:35:00 AM
3	Ti 337.279†	35977.6	33962.6	1.915 mg/L	1.915 mg/L	9:35:00 AM
3	Y axial	3163549.0	3163549.0	100 %		9:36:31 AM
3	As 188.979†	3869.1	3904.7	2.064 mg/L	2.064 mg/L	9:36:51 AM
3	B 208.889†	25259.3	24985.7	1.958 mg/L	1.958 mg/L	9:36:51 AM
3	Ba 233.527†	214988.3	214618.3	2.102 mg/L	2.102 mg/L	9:36:31 AM
3	Cd 228.802†	96940.4	96524.5	2.078 mg/L	2.078 mg/L	9:36:31 AM
3	Co 228.616†	98930.9	98662.1	2.084 mg/L	2.084 mg/L	9:36:31 AM
3	Cr 267.716†	155270.7	154562.9	2.078 mg/L	2.078 mg/L	9:36:31 AM
3	Cu 327.393†	323533.2	322813.5	2.051 mg/L	2.051 mg/L	9:36:31 AM
3	Mo 202.031†	46830.8	46677.0	2.039 mg/L	2.039 mg/L	9:36:31 AM
3	Ni 231.604†	98752.3	98411.3	2.113 mg/L	2.113 mg/L	9:36:31 AM
3	Pb 220.353†	15039.1	14959.9	2.124 mg/L	2.124 mg/L	9:36:51 AM
3	Sb 206.836†	7591.8	7440.5	2.007 mg/L	2.007 mg/L	9:36:51 AM
3	Se 196.026†	5373.1	5377.1	2.049 mg/L	2.049 mg/L	9:36:51 AM
3	Sn 189.927†	14236.3	14132.2	2.084 mg/L	2.084 mg/L	9:36:51 AM
3	Tl 351.924†	5907.9	5839.8	1.360 mg/L	1.360 mg/L	9:36:51 AM
3	V 290.880†	165310.7	163658.1	2.118 mg/L	2.118 mg/L	9:36:31 AM
3	Zn 206.200†	85549.0	85568.8	2.117 mg/L	2.117 mg/L	9:36:31 AM
3	Zr 343.823†	568247.7	566201.1	2.019 mg/L	2.019 mg/L	9:36:31 AM
3	Ag 328.068†	94547.6	94175.0	1.098 mg/L	1.098 mg/L	9:37:30 AM
4	Y radial	154435.3	154435.3	103 %		9:35:22 AM
4	Al 396.153†	9114.5	8791.6	1.971 mg/L	1.971 mg/L	9:35:22 AM
4	Be 313.107†	354470.6	343558.6	2.066 mg/L	2.066 mg/L	9:35:22 AM

Method: ICP3 IEC040523

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Date: 4/11/2023 9:37:33 AM

4	Ca 317.933†	10568.2	9522.6	1.979 mg/L	1.979 mg/L	9:35:22 AM
4	Fe 238.204†	247.1	213.3	2.061 mg/L	2.061 mg/L	9:35:42 AM
4	K 766.490†	3517.5	3092.4	1.993 mg/L	1.993 mg/L	9:35:22 AM
4	Mg 285.213†	19540.6	18875.2	1.959 mg/L	1.959 mg/L	9:35:22 AM
4	Mn 257.610†	12318.2	12054.4	2.042 mg/L	2.042 mg/L	9:35:22 AM
4	Na 589.592†	13582.6	12838.1	2.027 mg/L	2.027 mg/L	9:35:22 AM
4	Ti 337.279†	36542.7	35605.0	2.008 mg/L	2.008 mg/L	9:35:22 AM
4	Y axial	3160887.6	3160887.6	100 %		9:36:54 AM
4	As 188.979†	3821.1	3860.0	2.041 mg/L	2.041 mg/L	9:37:14 AM
4	B 208.889†	25028.3	24776.5	1.941 mg/L	1.941 mg/L	9:37:14 AM
4	Ba 233.527†	215528.4	215337.5	2.109 mg/L	2.109 mg/L	9:36:54 AM
4	Cd 228.802†	96913.1	96578.7	2.079 mg/L	2.079 mg/L	9:36:54 AM
4	Co 228.616†	99242.7	99056.1	2.092 mg/L	2.092 mg/L	9:36:54 AM
4	Cr 267.716†	155601.4	155023.1	2.085 mg/L	2.085 mg/L	9:36:54 AM
4	Cu 327.393†	323733.6	323285.1	2.054 mg/L	2.054 mg/L	9:36:54 AM
4	Mo 202.031†	46905.0	46790.3	2.044 mg/L	2.044 mg/L	9:36:54 AM
4	Ni 231.604†	98835.7	98577.4	2.117 mg/L	2.117 mg/L	9:36:54 AM
4	Pb 220.353†	14890.5	14824.2	2.105 mg/L	2.105 mg/L	9:37:14 AM
4	Sb 206.836†	7539.9	7395.1	1.994 mg/L	1.994 mg/L	9:37:14 AM
4	Se 196.026†	5314.6	5323.3	2.029 mg/L	2.029 mg/L	9:37:14 AM
4	Sn 189.927†	14103.6	14011.8	2.067 mg/L	2.067 mg/L	9:37:14 AM
4	Tl 351.924†	5841.7	5778.7	1.345 mg/L	1.345 mg/L	9:37:14 AM
4	V 290.880†	166502.0	164985.4	2.135 mg/L	2.135 mg/L	9:36:54 AM
4	Zn 206.200†	85917.8	86008.6	2.128 mg/L	2.128 mg/L	9:36:54 AM
4	Zr 343.823†	569599.8	568027.0	2.025 mg/L	2.025 mg/L	9:36:54 AM
4	Ag 328.068†	93382.5	93092.1	1.085 mg/L	1.085 mg/L	9:37:32 AM

Mean Data: SEQ-ICV @2211094

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std. Dev.	Sample Conc. Units	Std. Dev.	RSD
Y radial	157313.1	105 %	1.49			1.42%
Y axial	3178046.1	101 %	0.77			0.77%
Ag 328.068†	92798.3	1.082 mg/L	0.0137	1.082 mg/L	0.0137	1.27%
QC value greater than the upper limit for Ag 328.068 Recovery = 108.18%						
Al 396.153†	8541.1	1.913 mg/L	0.0418	1.913 mg/L	0.0418	2.18%
QC value within limits for Al 396.153 Recovery = 95.63%						
As 188.979†	3878.5	2.050 mg/L	0.0180	2.050 mg/L	0.0180	0.88%
QC value within limits for As 188.979 Recovery = 102.52%						
B 208.889†	24819.0	1.945 mg/L	0.0192	1.945 mg/L	0.0192	0.99%
QC value within limits for B 208.889 Recovery = 97.23%						
Ba 233.527†	214651.1	2.102 mg/L	0.0082	2.102 mg/L	0.0082	0.39%
QC value greater than the upper limit for Ba 233.527 Recovery = 105.12%						
Be 313.107†	333152.3	2.003 mg/L	0.0436	2.003 mg/L	0.0436	2.18%
QC value within limits for Be 313.107 Recovery = 100.15%						
Ca 317.933†	9282.8	1.929 mg/L	0.0377	1.929 mg/L	0.0377	1.96%
QC value within limits for Ca 317.933 Recovery = 96.43%						
Cd 228.802†	96291.1	2.073 mg/L	0.0089	2.073 mg/L	0.0089	0.43%
QC value within limits for Cd 228.802 Recovery = 103.65%						
Co 228.616†	98719.9	2.085 mg/L	0.0077	2.085 mg/L	0.0077	0.37%
QC value within limits for Co 228.616 Recovery = 104.25%						
Cr 267.716†	154494.8	2.078 mg/L	0.0079	2.078 mg/L	0.0079	0.38%
QC value within limits for Cr 267.716 Recovery = 103.88%						
Cu 327.393†	322315.7	2.048 mg/L	0.0090	2.048 mg/L	0.0090	0.44%
QC value within limits for Cu 327.393 Recovery = 102.39%						
Fe 238.204†	207.1	2.001 mg/L	0.0462	2.001 mg/L	0.0462	2.31%
QC value within limits for Fe 238.204 Recovery = 100.05%						
K 766.490†	2919.8	1.882 mg/L	0.0760	1.882 mg/L	0.0760	4.04%
QC value less than the lower limit for K 766.490 Recovery = 94.11%						
Mg 285.213†	18280.6	1.896 mg/L	0.0435	1.896 mg/L	0.0435	2.29%
QC value less than the lower limit for Mg 285.213 Recovery = 94.81%						
Mn 257.610†	11677.0	1.978 mg/L	0.0433	1.978 mg/L	0.0433	2.19%
QC value within limits for Mn 257.610 Recovery = 98.91%						
Mo 202.031†	46650.6	2.038 mg/L	0.0072	2.038 mg/L	0.0072	0.36%
QC value within limits for Mo 202.031 Recovery = 101.88%						
Na 589.592†	12410.0	1.960 mg/L	0.0458	1.960 mg/L	0.0458	2.34%
QC value within limits for Na 589.592 Recovery = 97.99%						
Ni 231.604†	98221.5	2.109 mg/L	0.0082	2.109 mg/L	0.0082	0.39%
QC value greater than the upper limit for Ni 231.604 Recovery = 105.45%						
Pb 220.353†	14859.2	2.110 mg/L	0.0192	2.110 mg/L	0.0192	0.91%

QC value greater than the upper limit for Pb 220.353 Recovery = 105.48%
 Sb 206.836† 7400.8 1.996 mg/L 0.0171 1.996 mg/L 0.0171 0.86%
 QC value within limits for Sb 206.836 Recovery = 99.79%
 Se 196.026† 5343.3 2.036 mg/L 0.0166 2.036 mg/L 0.0166 0.81%
 QC value within limits for Se 196.026 Recovery = 101.81%
 Sn 189.927† 14040.8 2.071 mg/L 0.0164 2.071 mg/L 0.0164 0.79%
 QC value within limits for Sn 189.927 Recovery = 103.56%
 Ti 337.279† 34563.7 1.949 mg/L 0.0407 1.949 mg/L 0.0407 2.09%
 QC value within limits for Ti 337.279 Recovery = 97.46%
 Tl 351.924† 5812.1 1.353 mg/L 0.0146 1.353 mg/L 0.0146 1.08%
 QC value greater than the upper limit for Tl 351.924 Recovery = 135.30%
 V 290.880† 164039.5 2.122 mg/L 0.0092 2.122 mg/L 0.0092 0.44%
 QC value greater than the upper limit for V 290.880 Recovery = 106.12%
 Zn 206.200† 85702.9 2.120 mg/L 0.0082 2.120 mg/L 0.0082 0.39%
 QC value greater than the upper limit for Zn 206.200 Recovery = 106.02%
 Zr 343.823† 566025.1 2.018 mg/L 0.0088 2.018 mg/L 0.0088 0.44%
 QC value within limits for Zr 343.823 Recovery = 100.90%
 QC Failed. Continue with analysis.
 User canceled analysis.

Sequence No.: 1

Sample ID: SEQ-ICV @2211094

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 8

Date Collected: 4/11/2023 9:40:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SEQ-ICV @2211094

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y radial	156051.4	156051.4	104 %		9:42:13 AM
1	Al 396.153†	9143.8	8728.1	1.956 mg/L	1.956 mg/L	9:42:13 AM
1	Be 313.107†	357392.1	342801.7	2.061 mg/L	2.061 mg/L	9:42:13 AM
1	Ca 317.933†	10704.4	9547.2	1.984 mg/L	1.984 mg/L	9:42:13 AM
1	Fe 238.204†	246.1	209.9	2.027 mg/L	2.027 mg/L	9:42:13 AM
1	K 766.490†	3517.4	3056.9	1.970 mg/L	1.970 mg/L	9:42:13 AM
1	Mg 285.213†	19600.9	18736.7	1.944 mg/L	1.944 mg/L	9:42:13 AM
1	Mn 257.610†	12407.0	12015.8	2.036 mg/L	2.036 mg/L	9:42:13 AM
1	Na 589.592†	13552.2	12672.3	2.001 mg/L	2.001 mg/L	9:42:13 AM
1	Ti 337.279†	36821.1	35505.1	2.002 mg/L	2.002 mg/L	9:42:13 AM
1	Y axial	3143403.1	3143403.1	99.7 %		9:43:43 AM
1	As 188.979†	3848.8	3909.0	2.066 mg/L	2.066 mg/L	9:44:03 AM
1	B 208.889†	25058.4	24945.5	1.955 mg/L	1.955 mg/L	9:44:03 AM
1	Ba 233.527†	213495.0	214493.7	2.101 mg/L	2.101 mg/L	9:43:43 AM
1	Cd 228.802†	96520.7	96722.8	2.082 mg/L	2.082 mg/L	9:43:43 AM
1	Co 228.616†	98455.2	98816.9	2.087 mg/L	2.087 mg/L	9:43:43 AM
1	Cr 267.716†	154425.2	154706.6	2.080 mg/L	2.080 mg/L	9:43:43 AM
1	Cu 327.393†	323106.4	324452.4	2.061 mg/L	2.061 mg/L	9:43:43 AM
1	Mo 202.031†	46431.0	46575.1	2.034 mg/L	2.034 mg/L	9:44:03 AM
1	Ni 231.604†	98001.5	98289.0	2.110 mg/L	2.110 mg/L	9:43:43 AM
1	Pb 220.353†	14881.0	14897.4	2.115 mg/L	2.115 mg/L	9:44:03 AM
1	Sb 206.836†	7560.8	7458.0	2.011 mg/L	2.011 mg/L	9:44:03 AM
1	Se 196.026†	5326.8	5365.0	2.045 mg/L	2.045 mg/L	9:44:03 AM
1	Sn 189.927†	14110.6	14097.1	2.080 mg/L	2.080 mg/L	9:44:03 AM
1	Tl 351.924†	5849.0	5818.4	1.354 mg/L	1.354 mg/L	9:44:03 AM
1	V 290.880†	166281.2	165687.8	2.143 mg/L	2.143 mg/L	9:43:43 AM
1	Zn 206.200†	85330.1	85895.8	2.125 mg/L	2.125 mg/L	9:43:43 AM
1	Zr 343.823†	566742.5	568321.4	2.026 mg/L	2.026 mg/L	9:43:43 AM
1	Ag 328.068†	91841.6	92064.5	1.073 mg/L	1.073 mg/L	9:45:22 AM
2	Y radial	151035.7	151035.7	101 %		9:42:35 AM
2	Al 396.153†	9159.9	9035.8	2.029 mg/L	2.029 mg/L	9:42:35 AM
2	Be 313.107†	355636.4	352459.4	2.119 mg/L	2.119 mg/L	9:42:35 AM
2	Ca 317.933†	10654.9	9839.6	2.044 mg/L	2.044 mg/L	9:42:35 AM
2	Fe 238.204†	241.5	213.2	2.059 mg/L	2.059 mg/L	9:42:55 AM
2	K 766.490†	3538.2	3189.8	2.056 mg/L	2.056 mg/L	9:42:35 AM
2	Mg 285.213†	19476.4	19238.4	1.999 mg/L	1.999 mg/L	9:42:35 AM
2	Mn 257.610†	12367.5	12372.4	2.096 mg/L	2.096 mg/L	9:42:35 AM
2	Na 589.592†	13623.8	13175.7	2.081 mg/L	2.081 mg/L	9:42:35 AM

2	Ti 337.279†	36620.8	36480.9	2.057 mg/L	2.057 mg/L	9:42:35 AM
2	Y axial	3149961.5	3149961.5	99.9 %		9:44:05 AM
2	As 188.979†	3805.9	3858.1	2.039 mg/L	2.039 mg/L	9:44:25 AM
2	B 208.889†	24933.5	24768.1	1.941 mg/L	1.941 mg/L	9:44:25 AM
2	Ba 233.527†	210400.3	210949.6	2.066 mg/L	2.066 mg/L	9:44:05 AM
2	Cd 228.802†	94971.3	94970.1	2.044 mg/L	2.044 mg/L	9:44:05 AM
2	Co 228.616†	96593.9	96747.8	2.043 mg/L	2.043 mg/L	9:44:05 AM
2	Cr 267.716†	151721.1	151677.0	2.040 mg/L	2.040 mg/L	9:44:05 AM
2	Cu 327.393†	316777.9	317442.0	2.017 mg/L	2.017 mg/L	9:44:05 AM
2	Mo 202.031†	46171.8	46218.7	2.019 mg/L	2.019 mg/L	9:44:25 AM
2	Ni 231.604†	96195.6	96276.4	2.067 mg/L	2.067 mg/L	9:44:05 AM
2	Pb 220.353†	14762.0	14747.1	2.094 mg/L	2.094 mg/L	9:44:25 AM
2	Sb 206.836†	7505.4	7386.7	1.992 mg/L	1.992 mg/L	9:44:25 AM
2	Se 196.026†	5301.2	5328.2	2.031 mg/L	2.031 mg/L	9:44:25 AM
2	Sn 189.927†	13998.3	13955.1	2.059 mg/L	2.059 mg/L	9:44:25 AM
2	Tl 351.924†	5781.2	5738.4	1.335 mg/L	1.335 mg/L	9:44:25 AM
2	V 290.880†	163420.5	162476.7	2.102 mg/L	2.102 mg/L	9:44:05 AM
2	Zn 206.200†	83845.6	84231.4	2.084 mg/L	2.084 mg/L	9:44:05 AM
2	Zr 343.823†	556400.9	556784.6	1.985 mg/L	1.985 mg/L	9:44:05 AM
2	Ag 328.068†	94049.1	94082.6	1.097 mg/L	1.097 mg/L	9:45:24 AM
3	Y radial	154151.6	154151.6	103 %		9:42:57 AM
3	Al 396.153†	9020.6	8716.7	1.955 mg/L	1.955 mg/L	9:42:57 AM
3	Be 313.107†	351803.8	341598.6	2.054 mg/L	2.054 mg/L	9:42:57 AM
3	Ca 317.933†	10562.9	9536.3	1.981 mg/L	1.981 mg/L	9:42:57 AM
3	Fe 238.204†	250.0	216.6	2.092 mg/L	2.092 mg/L	9:43:17 AM
3	K 766.490†	3441.6	3024.9	1.950 mg/L	1.950 mg/L	9:42:57 AM
3	Mg 285.213†	19240.7	18618.5	1.933 mg/L	1.933 mg/L	9:42:57 AM
3	Mn 257.610†	12152.7	11915.4	2.019 mg/L	2.019 mg/L	9:42:57 AM
3	Na 589.592†	13392.7	12677.7	2.002 mg/L	2.002 mg/L	9:42:57 AM
3	Ti 337.279†	36200.4	35337.5	1.993 mg/L	1.993 mg/L	9:42:57 AM
3	Y axial	3185426.7	3185426.7	101 %		9:44:28 AM
3	As 188.979†	3802.8	3812.5	2.015 mg/L	2.015 mg/L	9:44:48 AM
3	B 208.889†	24963.0	24519.5	1.922 mg/L	1.922 mg/L	9:44:48 AM
3	Ba 233.527†	212405.7	210589.8	2.063 mg/L	2.063 mg/L	9:44:28 AM
3	Cd 228.802†	95836.9	94768.5	2.040 mg/L	2.040 mg/L	9:44:28 AM
3	Co 228.616†	97700.5	96766.8	2.044 mg/L	2.044 mg/L	9:44:28 AM
3	Cr 267.716†	153035.3	151286.9	2.034 mg/L	2.034 mg/L	9:44:28 AM
3	Cu 327.393†	320280.1	317378.2	2.017 mg/L	2.017 mg/L	9:44:28 AM
3	Mo 202.031†	46251.5	45783.0	2.000 mg/L	2.000 mg/L	9:44:48 AM
3	Ni 231.604†	97397.9	96394.4	2.070 mg/L	2.070 mg/L	9:44:28 AM
3	Pb 220.353†	14817.0	14637.1	2.078 mg/L	2.078 mg/L	9:44:48 AM
3	Sb 206.836†	7500.9	7298.6	1.968 mg/L	1.968 mg/L	9:44:48 AM
3	Se 196.026†	5285.8	5253.9	2.002 mg/L	2.002 mg/L	9:44:48 AM
3	Sn 189.927†	14036.3	13836.8	2.042 mg/L	2.042 mg/L	9:44:48 AM
3	Tl 351.924†	5806.1	5698.5	1.326 mg/L	1.326 mg/L	9:44:48 AM
3	V 290.880†	164801.1	162022.0	2.096 mg/L	2.096 mg/L	9:44:28 AM
3	Zn 206.200†	84439.9	83885.2	2.075 mg/L	2.075 mg/L	9:44:28 AM
3	Zr 343.823†	562239.5	556363.0	1.984 mg/L	1.984 mg/L	9:44:28 AM
3	Ag 328.068†	90871.0	89888.1	1.048 mg/L	1.048 mg/L	9:45:27 AM
4	Y radial	154644.8	154644.8	103 %		9:43:19 AM
4	Al 396.153†	9022.7	8690.7	1.948 mg/L	1.948 mg/L	9:43:19 AM
4	Be 313.107†	348268.1	337080.6	2.027 mg/L	2.027 mg/L	9:43:19 AM
4	Ca 317.933†	10435.1	9379.6	1.949 mg/L	1.949 mg/L	9:43:19 AM
4	Fe 238.204†	245.6	211.6	2.044 mg/L	2.044 mg/L	9:43:39 AM
4	K 766.490†	3368.0	2942.8	1.897 mg/L	1.897 mg/L	9:43:19 AM
4	Mg 285.213†	19082.2	18405.2	1.910 mg/L	1.910 mg/L	9:43:19 AM
4	Mn 257.610†	12028.9	11757.8	1.992 mg/L	1.992 mg/L	9:43:19 AM
4	Na 589.592†	13310.1	12556.0	1.983 mg/L	1.983 mg/L	9:43:19 AM
4	Ti 337.279†	35994.2	35025.3	1.975 mg/L	1.975 mg/L	9:43:19 AM
4	Y axial	3154026.7	3154026.7	100 %		9:44:51 AM
4	As 188.979†	3828.9	3876.2	2.049 mg/L	2.049 mg/L	9:45:11 AM
4	B 208.889†	25090.1	24892.5	1.951 mg/L	1.951 mg/L	9:45:11 AM
4	Ba 233.527†	212048.5	212326.0	2.080 mg/L	2.080 mg/L	9:44:51 AM
4	Cd 228.802†	95691.4	95567.5	2.057 mg/L	2.057 mg/L	9:44:51 AM
4	Co 228.616†	97594.1	97623.3	2.062 mg/L	2.062 mg/L	9:44:51 AM
4	Cr 267.716†	153201.2	152961.0	2.057 mg/L	2.057 mg/L	9:44:51 AM
4	Cu 327.393†	320259.4	320514.0	2.036 mg/L	2.036 mg/L	9:44:51 AM
4	Mo 202.031†	46446.9	46434.2	2.028 mg/L	2.028 mg/L	9:45:11 AM
4	Ni 231.604†	97156.4	97112.9	2.085 mg/L	2.085 mg/L	9:44:51 AM
4	Pb 220.353†	14863.5	14829.5	2.105 mg/L	2.105 mg/L	9:45:11 AM

4	Sb 206.836†	7543.7	7415.3	2.000 mg/L	2.000 mg/L	9:45:11 AM
4	Se 196.026†	5333.6	5353.8	2.040 mg/L	2.040 mg/L	9:45:11 AM
4	Sn 189.927†	14085.4	14024.2	2.069 mg/L	2.069 mg/L	9:45:11 AM
4	Tl 351.924†	5791.7	5741.4	1.336 mg/L	1.336 mg/L	9:45:11 AM
4	V 290.880†	164616.6	163461.7	2.115 mg/L	2.115 mg/L	9:44:51 AM
4	Zn 206.200†	84359.4	84636.9	2.094 mg/L	2.094 mg/L	9:44:51 AM
4	Zr 343.823†	561633.5	561298.2	2.001 mg/L	2.001 mg/L	9:44:51 AM
4	Ag 328.068†	92032.9	91945.4	1.072 mg/L	1.072 mg/L	9:45:29 AM

Mean Data: SEQ-ICV @2211094

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153970.9	103 %	1.41			1.37%
Y axial	3158204.5	100 %	0.59			0.59%
Ag 328.068†	91995.1	1.072 mg/L	0.0201	1.072 mg/L	0.0201	1.87%
QC value greater than the upper limit for Ag 328.068 Recovery = 107.25% Ok for 6010; 04/12/23 ATP						
Al 396.153†	8792.8	1.972 mg/L	0.0381	1.972 mg/L	0.0381	1.93%
QC value within limits for Al 396.153 Recovery = 98.60%						
As 188.979†	3864.0	2.043 mg/L	0.0212	2.043 mg/L	0.0212	1.04%
QC value within limits for As 188.979 Recovery = 102.13%						
B 208.889†	24781.4	1.942 mg/L	0.0149	1.942 mg/L	0.0149	0.77%
QC value within limits for B 208.889 Recovery = 97.12%						
Ba 233.527†	212089.8	2.077 mg/L	0.0173	2.077 mg/L	0.0173	0.83%
QC value within limits for Ba 233.527 Recovery = 103.86%						
Be 313.107†	343485.1	2.065 mg/L	0.0390	2.065 mg/L	0.0390	1.89%
QC value within limits for Be 313.107 Recovery = 103.27%						
Ca 317.933†	9575.7	1.990 mg/L	0.0399	1.990 mg/L	0.0399	2.00%
QC value within limits for Ca 317.933 Recovery = 99.48%						
Cd 228.802†	95507.2	2.056 mg/L	0.0189	2.056 mg/L	0.0189	0.92%
QC value within limits for Cd 228.802 Recovery = 102.80%						
Co 228.616†	97488.7	2.059 mg/L	0.0206	2.059 mg/L	0.0206	1.00%
QC value within limits for Co 228.616 Recovery = 102.94%						
Cr 267.716†	152657.9	2.053 mg/L	0.0207	2.053 mg/L	0.0207	1.01%
QC value within limits for Cr 267.716 Recovery = 102.64%						
Cu 327.393†	319946.6	2.033 mg/L	0.0212	2.033 mg/L	0.0212	1.04%
QC value within limits for Cu 327.393 Recovery = 101.64%						
Fe 238.204†	212.8	2.056 mg/L	0.0275	2.056 mg/L	0.0275	1.34%
QC value within limits for Fe 238.204 Recovery = 102.78%						
K 766.490†	3053.6	1.968 mg/L	0.0662	1.968 mg/L	0.0662	3.36%
QC value within limits for K 766.490 Recovery = 98.42% RSD >3%, Ok for 6010 ; 04/12/23 ATP						
Mg 285.213†	18749.7	1.946 mg/L	0.0376	1.946 mg/L	0.0376	1.93%
QC value within limits for Mg 285.213 Recovery = 97.32%						
Mn 257.610†	12015.4	2.036 mg/L	0.0442	2.036 mg/L	0.0442	2.17%
QC value within limits for Mn 257.610 Recovery = 101.78%						
Mo 202.031†	46252.8	2.020 mg/L	0.0151	2.020 mg/L	0.0151	0.75%
QC value within limits for Mo 202.031 Recovery = 101.02%						
Na 589.592†	12770.4	2.017 mg/L	0.0436	2.017 mg/L	0.0436	2.16%
QC value within limits for Na 589.592 Recovery = 100.83%						
Ni 231.604†	97018.2	2.083 mg/L	0.0198	2.083 mg/L	0.0198	0.95%
QC value within limits for Ni 231.604 Recovery = 104.16%						
Pb 220.353†	14777.8	2.098 mg/L	0.0159	2.098 mg/L	0.0159	0.76%
QC value within limits for Pb 220.353 Recovery = 104.90%						
Sb 206.836†	7389.6	1.993 mg/L	0.0182	1.993 mg/L	0.0182	0.91%
QC value within limits for Sb 206.836 Recovery = 99.65%						
Se 196.026†	5325.2	2.029 mg/L	0.0191	2.029 mg/L	0.0191	0.94%
QC value within limits for Se 196.026 Recovery = 101.47%						
Sn 189.927†	13978.3	2.062 mg/L	0.0162	2.062 mg/L	0.0162	0.79%
QC value within limits for Sn 189.927 Recovery = 103.12%						
Ti 337.279†	35587.2	2.007 mg/L	0.0354	2.007 mg/L	0.0354	1.77%
QC value within limits for Ti 337.279 Recovery = 100.35%						
Tl 351.924†	5749.2	1.338 mg/L	0.0117	1.338 mg/L	0.0117	0.87%
QC value greater than the upper limit for Tl 351.924 Recovery = 133.80%						
V 290.880†	163412.0	2.114 mg/L	0.0209	2.114 mg/L	0.0209	0.99%
QC value greater than the upper limit for V 290.880 Recovery = 105.70% Ok for 6010; 04/12/23 ATP						
Zn 206.200†	84662.3	2.095 mg/L	0.0217	2.095 mg/L	0.0217	1.04%
QC value within limits for Zn 206.200 Recovery = 104.73%						
Zr 343.823†	560691.8	1.999 mg/L	0.0198	1.999 mg/L	0.0198	0.99%
QC value within limits for Zr 343.823 Recovery = 99.95%						
QC Failed. Continue with analysis.						

TI failed; 04/12/23 ATP

User canceled analysis.

Method Loaded

Method Name: ICP3 IEC040523

Method Last Saved: 4/11/2023 9:37:34 AM

IEC File: 0402A23.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 2

Autosampler Location: 9

Sample ID: SEQ-ICV2 @AIR-2211108

Date Collected: 4/11/2023 9:50:35 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample):

Mean Data: SEQ-ICV2 @AIR-2211108

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153047.1	102 %		0.39			0.38%
Y axial	3142274.3	99.6 %		1.09			1.09%
Ag 328.068†	97.3	0.0011 mg/L		0.00059	0.0011 mg/L	0.00059	51.32%
Al 396.153†	1.4	0.0003 mg/L		0.00314	0.0003 mg/L	0.00314	>999.9%
As 188.979†	0.2	0.0001 mg/L		0.00087	0.0001 mg/L	0.00087	720.36%
B 208.889†	293.8	0.0242 mg/L		0.00081	0.0242 mg/L	0.00081	3.33%
Ba 233.527†	-11.1	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	26.75%
Be 313.107†	51.5	0.0003 mg/L		0.00004	0.0003 mg/L	0.00004	13.67%
Ca 317.933†	12.2	0.0025 mg/L		0.00102	0.0025 mg/L	0.00102	40.19%
Cd 228.802†	8.1	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	11.39%
Co 228.616†	-1.1	-0.0000 mg/L		0.00010	-0.0000 mg/L	0.00010	449.46%
Cr 267.716†	26.7	0.0004 mg/L		0.00001	0.0004 mg/L	0.00001	2.23%
Cu 327.393†	209.2	0.0013 mg/L		0.00037	0.0013 mg/L	0.00037	27.53%
Fe 238.204†	-0.3	-0.0032 mg/L		0.01436	-0.0032 mg/L	0.01436	449.92%
K 766.490†	28.9	0.0186 mg/L		0.06211	0.0186 mg/L	0.06211	333.24%
Mg 285.213†	10.3	0.0011 mg/L		0.00046	0.0011 mg/L	0.00046	42.87%
Mn 257.610†	-0.2	-0.0000 mg/L		0.00068	-0.0000 mg/L	0.00068	>999.9%
Mo 202.031†	14.8	0.0006 mg/L		0.00018	0.0006 mg/L	0.00018	28.47%
Na 589.592†	-6.8	-0.0011 mg/L		0.01143	-0.0011 mg/L	0.01143	>999.9%

Ni 231.604†	-2.8	-0.0001 mg/L	0.00042	-0.0001 mg/L	0.00042	643.14%
Pb 220.353†	7693.9	1.089 mg/L	0.0185	1.089 mg/L	0.0185	1.70%
QC value within limits for Pb 220.353 Recovery = 108.93%						
Sb 206.836†	13.8	0.0038 mg/L	0.00229	0.0038 mg/L	0.00229	60.39%
Se 196.026†	3.6	0.0014 mg/L	0.00306	0.0014 mg/L	0.00306	220.05%
Sn 189.927†	15.7	0.0023 mg/L	0.00170	0.0023 mg/L	0.00170	74.06%
Ti 337.279†	0.7	0.0000 mg/L	0.00037	0.0000 mg/L	0.00037	893.71%
Tl 351.924†	37.6	0.0088 mg/L	0.00182	0.0088 mg/L	0.00182	20.62%
V 290.880†	136.3	0.0017 mg/L	0.00024	0.0017 mg/L	0.00024	13.99%
Zn 206.200†	64.9	0.0016 mg/L	0.00015	0.0016 mg/L	0.00015	9.63%
Zr 343.823†	85.0	0.0003 mg/L	0.00014	0.0003 mg/L	0.00014	46.63%

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: SEQ-ICB @2211107

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 9:58:17 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB @2211107

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157687.5	105 %	0.79			0.75%
Y axial	3240381.8	103 %	0.58			0.56%
Ag 328.068†	27.8	0.0003 mg/L	0.00031	0.0003 mg/L	0.00031	95.54%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-29.8	-0.0069 mg/L	0.00638	-0.0069 mg/L	0.00638	91.89%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	0.1	0.0001 mg/L	0.00194	0.0001 mg/L	0.00194	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	177.6	0.0147 mg/L	0.00035	0.0147 mg/L	0.00035	2.40%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	-3.8	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	195.31%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	2.2	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	3.8	0.0008 mg/L	0.00254	0.0008 mg/L	0.00254	324.45%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	1.2	0.0000 mg/L	0.00012	0.0000 mg/L	0.00012	499.96%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-8.4	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	71.11%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	16.2	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	85.28%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	82.7	0.0005 mg/L	0.00022	0.0005 mg/L	0.00022	42.34%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	-0.2	-0.0022 mg/L	0.01955	-0.0022 mg/L	0.01955	899.61%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	-4.7	-0.0031 mg/L	0.05819	-0.0031 mg/L	0.05819	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-8.6	-0.0009 mg/L	0.00116	-0.0009 mg/L	0.00116	127.47%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	3.7	0.0006 mg/L	0.00009	0.0006 mg/L	0.00009	14.77%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.6	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	194.40%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-6.6	-0.0010 mg/L	0.00787	-0.0010 mg/L	0.00787	752.07%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-12.5	-0.0003 mg/L	0.00017	-0.0003 mg/L	0.00017	60.91%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	28.4	0.0040 mg/L	0.00146	0.0040 mg/L	0.00146	36.18%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	2.4	0.0007 mg/L	0.00196	0.0007 mg/L	0.00196	293.68%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.7	-0.0010 mg/L	0.00397	-0.0010 mg/L	0.00397	382.62%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-1.2	-0.0002 mg/L	0.00082	-0.0002 mg/L	0.00082	467.80%

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 4.6 0.0003 mg/L 0.00028 0.0003 mg/L 0.00028 107.95%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 50.3 0.0118 mg/L 0.01319 0.0118 mg/L 0.01319 111.68%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 114.5 0.0014 mg/L 0.00025 0.0014 mg/L 0.00025 17.44%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 22.8 0.0006 mg/L 0.00014 0.0006 mg/L 0.00014 25.00%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 43.8 0.0002 mg/L 0.00020 0.0002 mg/L 0.00020 126.72%
 All analyte(s) passed QC.

Sequence No.: 4

Autosampler Location: 10

Sample ID: SEQ-LCV @2211109

Date Collected: 4/11/2023 10:04:07 AM

Analyst:

Data Type: Original

Initial Sample Wt: TI failed; 04/12/23 ATP

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 110

Mean Data: SEQ-LCV @2211109

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156056.0	104 %	1.06			1.01%
Y axial	3247801.3	103 %	2.45			2.38%
Ag 328.068†	940.6	0.0110 mg/L	0.00098	0.0110 mg/L	0.00098	8.90%
QC value within limits for Ag 328.068			110.35%			
Al 396.153†	252.3	0.0572 mg/L	0.00454	0.0572 mg/L	0.00454	7.94%
QC value within limits for Al 396.153			114.34%			
As 188.979†	15.3	0.0080 mg/L	0.00145	0.0080 mg/L	0.00145	18.16%
QC value less than the lower limit for As 188.979			Recovery = 79.72%			
B 208.889†	1374.6	0.1107 mg/L	0.00249	0.1107 mg/L	0.00249	2.25%
QC value within limits for B 208.889			110.75%			
Ba 233.527†	5579.9	0.0546 mg/L	0.00117	0.0546 mg/L	0.00117	2.13%
QC value within limits for Ba 233.527			109.22%			
Be 313.107†	741.5	0.0044 mg/L	0.00013	0.0044 mg/L	0.00013	2.85%
QC value within limits for Be 313.107			110.86%			
Ca 317.933†	2503.2	0.5201 mg/L	0.00683	0.5201 mg/L	0.00683	1.31%
QC value within limits for Ca 317.933			104.02%			
Cd 228.802†	205.3	0.0044 mg/L	0.00013	0.0044 mg/L	0.00013	2.93%
QC value within limits for Cd 228.802			110.63%			
Co 228.616†	508.1	0.0108 mg/L	0.00031	0.0108 mg/L	0.00031	2.86%
QC value within limits for Co 228.616			107.61%			
Cr 267.716†	819.4	0.0110 mg/L	0.00033	0.0110 mg/L	0.00033	3.01%
QC value within limits for Cr 267.716			110.11%			
Cu 327.393†	1803.9	0.0115 mg/L	0.00062	0.0115 mg/L	0.00062	5.42%
QC value within limits for Cu 327.393			114.71%			
Fe 238.204†	4.7	0.0442 mg/L	0.01018	0.0442 mg/L	0.01018	23.05%
QC value within limits for Fe 238.204			88.30%			
K 766.490†	3200.3	2.063 mg/L	0.0447	2.063 mg/L	0.0447	2.17%
QC value within limits for K 766.490			103.15%			
Mg 285.213†	495.5	0.0526 mg/L	0.00072	0.0526 mg/L	0.00072	1.37%
QC value within limits for Mg 285.213			105.12%			
Mn 257.610†	64.1	0.0109 mg/L	0.00062	0.0109 mg/L	0.00062	5.71%
QC value within limits for Mn 257.610			108.67%			
Mo 202.031†	1252.5	0.0547 mg/L	0.00136	0.0547 mg/L	0.00136	2.49%
QC value within limits for Mo 202.031			109.41%			
Na 589.592†	13286.6	2.098 mg/L	0.0118	2.098 mg/L	0.0118	0.56%
QC value within limits for Na 589.592			104.91%			
Ni 231.604†	498.8	0.0107 mg/L	0.00060	0.0107 mg/L	0.00060	5.59%
QC value within limits for Ni 231.604			106.77%			
Pb 220.353†	90.7	0.0130 mg/L	0.00144	0.0130 mg/L	0.00144	11.04%
QC value greater than the upper limit for Pb 220.353			Recovery = 130.15%			
Sb 206.836†	170.8	0.0466 mg/L	0.00331	0.0466 mg/L	0.00331	7.11%
QC value within limits for Sb 206.836			93.19%			
Se 196.026†	146.3	0.0558 mg/L	0.00250	0.0558 mg/L	0.00250	4.48%
QC value within limits for Se 196.026			111.58%			
Sn 189.927†	735.3	0.1080 mg/L	0.00278	0.1080 mg/L	0.00278	2.57%
QC value within limits for Sn 189.927			108.05%			

Ti 337.279† 382.4 0.0216 mg/L 0.00073 0.0216 mg/L 0.00073 3.40%
 QC value within limits for Ti 337.279 Recovery = 107.87%
 Tl 351.924† 331.2 0.0777 mg/L 0.00808 0.0777 mg/L 0.00808 10.40%
 QC value greater than the upper limit for Tl 351.924 Recovery = 155.37%
 V 290.880† 993.0 0.0139 mg/L 0.00062 0.0139 mg/L 0.00062 4.41%
 QC value greater than the upper limit for V 290.880 Recovery = 139.41%
 Zn 206.200† 481.3 0.0119 mg/L 0.00007 0.0119 mg/L 0.00007 0.63%
 QC value within limits for Zn 206.200 Recovery = 118.88%
 Zr 343.823† 142.5 0.0005 mg/L 0.00020 0.0005 mg/L 0.00020 39.12%
 QC Failed. Continue with analysis.
 User canceled analysis.

Method Loaded

Method Name: ICP3 IEC040523

Method Last Saved: 4/11/2023 9:54:28 AM

IEC File: 0402A23.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 8

Autosampler Location: 13

Sample ID: SEQ-LCV@RR

Date Collected: 4/11/2023 10:12:46 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 0.01 ICV Dil Mix.

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156302.4	104 %	0.51			0.49%
Y axial	3158035.3	100 %	0.81			0.81%
Ag 328.068†	422.3	0.0049 mg/L	0.00041	0.0049 mg/L	0.00041	8.25%
Al 396.153†	46.9	0.0106 mg/L	0.00239	0.0106 mg/L	0.00239	22.66%
As 188.979†	17.1	0.0090 mg/L	0.00192	0.0090 mg/L	0.00192	21.19%
QC value within limits for As 188.979 Recovery = 90.38%						
B 208.889†	225.9	0.0181 mg/L	0.00040	0.0181 mg/L	0.00040	2.21%
Ba 233.527†	1062.6	0.0104 mg/L	0.00009	0.0104 mg/L	0.00009	0.87%
Be 313.107†	1660.3	0.0100 mg/L	0.00007	0.0100 mg/L	0.00007	0.75%

Ca 317.933†	53.3	0.0111 mg/L	0.00173	0.0111 mg/L	0.00173	15.63%
Cd 228.802†	481.0	0.0104 mg/L	0.00010	0.0104 mg/L	0.00010	1.01%
Co 228.616†	477.9	0.0101 mg/L	0.00024	0.0101 mg/L	0.00024	2.33%
Cr 267.716†	782.9	0.0105 mg/L	0.00007	0.0105 mg/L	0.00007	0.67%
Cu 327.393†	1587.8	0.0101 mg/L	0.00011	0.0101 mg/L	0.00011	1.13%
Fe 238.204†	1.3	0.0125 mg/L	0.01172	0.0125 mg/L	0.01172	93.42%
K 766.490†	-45.1	-0.0290 mg/L	0.01910	-0.0290 mg/L	0.01910	65.74%
Mg 285.213†	88.6	0.0092 mg/L	0.00074	0.0092 mg/L	0.00074	8.03%
Mn 257.610†	61.7	0.0105 mg/L	0.00114	0.0105 mg/L	0.00114	10.92%
Mo 202.031†	237.1	0.0104 mg/L	0.00030	0.0104 mg/L	0.00030	2.88%
Na 589.592†	94.4	0.0149 mg/L	0.00941	0.0149 mg/L	0.00941	63.13%
Ni 231.604†	472.7	0.0101 mg/L	0.00021	0.0101 mg/L	0.00021	2.07%
Pb 220.353†	88.8	0.0126 mg/L	0.00088	0.0126 mg/L	0.00088	7.01%
QC value greater than the upper limit for Pb 220.353 Recovery = 126.04% See RR: 04/12/23 ATP						
Sb 206.836†	50.3	0.0136 mg/L	0.00108	0.0136 mg/L	0.00108	7.91%
Se 196.026†	30.0	0.0114 mg/L	0.00040	0.0114 mg/L	0.00040	3.52%
Sn 189.927†	73.1	0.0108 mg/L	0.00174	0.0108 mg/L	0.00174	16.18%
Ti 337.279†	186.2	0.0105 mg/L	0.00051	0.0105 mg/L	0.00051	4.85%
Tl 351.924†	77.8	0.0182 mg/L	0.00260	0.0182 mg/L	0.00260	14.30%
V 290.880†	1008.9	0.0130 mg/L	0.00029	0.0130 mg/L	0.00029	2.22%
QC value greater than the upper limit for V 290.880 Recovery = 129.97% See RR: 04/12/23 ATP						
Zn 206.200†	432.1	0.0107 mg/L	0.00015	0.0107 mg/L	0.00015	1.38%
Zr 343.823†	2592.3	0.0092 mg/L	0.00037	0.0092 mg/L	0.00037	3.99%
QC Failed. Continue with analysis.						
User canceled analysis.						

Method Loaded

Method Name: ICP3 IEC040523

IEC File: 0402A23.iec

Method Description: Soils and Waters

Method Last Saved: 4/11/2023 10:19:17 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 8

Sample ID: SEQ-LCV@RR

Analyst:

Initial Sample Wt: 0.015 ICV Dil Mix.

Dilution:

Wash Time (before sample):

Autosampler Location: 13

Date Collected: 4/11/2023 10:20:40 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

V failed; 04/12/23 ATP

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157527.9	105	%	3.28			3.12%
Y axial	3280352.5	104	%	1.55			1.49%
Ag 328.068†	739.3	0.0086	mg/L	0.00059	0.0086 mg/L	0.00059	6.84%
Al 396.153†	54.7	0.0122	mg/L	0.01015	0.0122 mg/L	0.01015	83.34%
As 188.979†	25.1	0.0133	mg/L	0.00302	0.0133 mg/L	0.00302	22.68%
B 208.889†	251.0	0.0200	mg/L	0.00080	0.0200 mg/L	0.00080	4.02%
Ba 233.527†	1572.1	0.0154	mg/L	0.00009	0.0154 mg/L	0.00009	0.60%
Be 313.107†	2562.1	0.0154	mg/L	0.00054	0.0154 mg/L	0.00054	3.51%
Ca 317.933†	62.3	0.0129	mg/L	0.00233	0.0129 mg/L	0.00233	18.00%
Cd 228.802†	686.9	0.0148	mg/L	0.00027	0.0148 mg/L	0.00027	1.84%
Co 228.616†	698.8	0.0148	mg/L	0.00022	0.0148 mg/L	0.00022	1.46%
Cr 267.716†	1138.5	0.0153	mg/L	0.00030	0.0153 mg/L	0.00030	1.94%
Cu 327.393†	2287.5	0.0145	mg/L	0.00044	0.0145 mg/L	0.00044	3.06%
Fe 238.204†	0.3	0.0033	mg/L	0.00240	0.0033 mg/L	0.00240	71.85%
K 766.490†	-16.9	-0.0109	mg/L	0.04317	-0.0109 mg/L	0.04317	396.79%
Mg 285.213†	132.5	0.0138	mg/L	0.00088	0.0138 mg/L	0.00088	6.40%
Mn 257.610†	96.0	0.0163	mg/L	0.00023	0.0163 mg/L	0.00023	1.43%
Mo 202.031†	342.8	0.0150	mg/L	0.00049	0.0150 mg/L	0.00049	3.30%
Na 589.592†	80.7	0.0127	mg/L	0.00646	0.0127 mg/L	0.00646	50.74%
Ni 231.604†	685.7	0.0147	mg/L	0.00002	0.0147 mg/L	0.00002	0.16%
Pb 220.353†	126.3	0.0179	mg/L	0.00179	0.0179 mg/L	0.00179	10.00%
QC value within limits for Pb 220.353 Recovery = 119.50%							
Sb 206.836†	57.8	0.0156	mg/L	0.00144	0.0156 mg/L	0.00144	9.22%
Se 196.026†	42.7	0.0163	mg/L	0.00055	0.0163 mg/L	0.00055	3.39%
Sn 189.927†	109.7	0.0162	mg/L	0.00015	0.0162 mg/L	0.00015	0.91%
Ti 337.279†	271.9	0.0153	mg/L	0.00030	0.0153 mg/L	0.00030	1.93%
Tl 351.924†	24.1	0.0055	mg/L	0.01129	0.0055 mg/L	0.01129	203.64%
V 290.880†	1428.4	0.0184	mg/L	0.00037	0.0184 mg/L	0.00037	1.99%
QC value greater than the upper limit for V 290.880 Recovery = 122.74%							
Zn 206.200†	631.9	0.0156	mg/L	0.00018	0.0156 mg/L	0.00018	1.14%
Zr 343.823†	3920.2	0.0140	mg/L	0.00035	0.0140 mg/L	0.00035	2.54%
QC Failed. Continue with analysis.							
User canceled analysis.							

Sequence No.: 5

Sample ID: SEQ-CCV @2211091

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 5

Date Collected: 4/11/2023 10:25:40 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV @2211091

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157173.7	105	%	1.10			1.05%
Y axial	3103101.8	98.4	%	0.38			0.39%
Ag 328.068†	204257.0	2.379	mg/L	0.0342	2.379 mg/L	0.0342	1.44%
QC value within limits for Ag 328.068 Recovery = 95.17%							
Al 396.153†	41778.5	9.547	mg/L	0.0363	9.547 mg/L	0.0363	0.38%
QC value within limits for Al 396.153 Recovery = 95.47%							
As 188.979†	9577.3	5.062	mg/L	0.0237	5.062 mg/L	0.0237	0.47%
QC value within limits for As 188.979 Recovery = 101.24%							
B 208.889†	60324.6	4.724	mg/L	0.0093	4.724 mg/L	0.0093	0.20%
QC value within limits for B 208.889 Recovery = 94.47%							
Ba 233.527†	516109.6	5.055	mg/L	0.0115	5.055 mg/L	0.0115	0.23%
QC value within limits for Ba 233.527 Recovery = 101.10%							
Be 313.107†	834006.0	5.014	mg/L	0.0193	5.014 mg/L	0.0193	0.39%
QC value within limits for Be 313.107 Recovery = 100.29%							
Ca 317.933†	47684.7	9.907	mg/L	0.0355	9.907 mg/L	0.0355	0.36%
QC value within limits for Ca 317.933 Recovery = 99.07%							
Cd 228.802†	232401.6	5.002	mg/L	0.0159	5.002 mg/L	0.0159	0.32%
QC value within limits for Cd 228.802 Recovery = 100.05%							
Co 228.616†	235846.7	4.981	mg/L	0.0118	4.981 mg/L	0.0118	0.24%

		Mean	Corrected	Calib.		Sample		
Analyte		Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.
								RSD
Y radial		147613.9	98.5	%	1.45			1.47%
Y axial		2894219.9	91.8	%	0.76			0.82%
Ag	328.068†	-298.2	-0.0035	mg/L	0.00033	-0.0035	mg/L	0.00033
	QC value within limits for Ag	328.068	Recovery =	Not calculated				9.47%
Al	396.153†	1053946.4	245.8	mg/L	7.46	245.8	mg/L	7.46
	QC value within limits for Al	396.153	Recovery =	98.31%				3.04%
As	188.979†	-51.7	-0.0048	mg/L	0.00176	-0.0048	mg/L	0.00176
	QC value within limits for As	188.979	Recovery =	Not calculated				36.93%
B	208.889†	241.9	0.0207	mg/L	0.00058	0.0207	mg/L	0.00058
	QC value within limits for B	208.889	Recovery =	Not calculated				2.81%
Ba	233.527†	392.3	0.0039	mg/L	0.00003	0.0039	mg/L	0.00003
	QC value within limits for Ba	233.527	Recovery =	Not calculated				0.71%
Be	313.107†	133.2	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002
	QC value within limits for Be	313.107	Recovery =	Not calculated				4.26%
Ca	317.933†	1160141.0	241.0	mg/L	7.66	241.0	mg/L	7.66
	QC value within limits for Ca	317.933	Recovery =	96.42%				3.18%
Cd	228.802†	7.5	0.0003	mg/L	0.00019	0.0003	mg/L	0.00019
	QC value within limits for Cd	228.802	Recovery =	Not calculated				60.35%
Co	228.616†	34.1	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015
	QC value within limits for Co	228.616	Recovery =	Not calculated				21.52%

Cr 267.716†	-199.2	-0.0007 mg/L	0.00032	-0.0007 mg/L	0.00032	43.01%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-286.2	0.0006 mg/L	0.00048	0.0006 mg/L	0.00048	83.70%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	10245.7	98.29 mg/L	1.592	98.29 mg/L	1.592	1.62%
QC value within limits for Fe 238.204 Recovery = 98.29%						
K 766.490†	89.0	0.0574 mg/L	0.04510	0.0574 mg/L	0.04510	78.60%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1949495.3	206.8 mg/L	5.83	206.8 mg/L	5.83	2.82%
QC value within limits for Mg 285.213 Recovery = 82.73%						
Mn 257.610†	44.7	0.0076 mg/L	0.00072	0.0076 mg/L	0.00072	9.46%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-323.2	-0.0141 mg/L	0.00027	-0.0141 mg/L	0.00027	1.92%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	335.8	0.0530 mg/L	0.00252	0.0530 mg/L	0.00252	4.76%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-17.0	-0.0003 mg/L	0.00005	-0.0003 mg/L	0.00005	19.02%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-163.9	-0.0014 mg/L	0.00314	-0.0014 mg/L	0.00314	227.53%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	164.4	0.0046 mg/L	0.00143	0.0046 mg/L	0.00143	31.31%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	49.5	0.0189 mg/L	0.00742	0.0189 mg/L	0.00742	39.36%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-45.8	-0.0067 mg/L	0.00225	-0.0067 mg/L	0.00225	33.50%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	17.2	0.0010 mg/L	0.00055	0.0010 mg/L	0.00055	56.50%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-509.4	-0.0500 mg/L	0.00224	-0.0500 mg/L	0.00224	4.48%
QC value less than the lower limit for Tl 351.924 Recovery = Not calculated						
V 290.880†	6147.1	-0.0008 mg/L	0.00210	-0.0008 mg/L	0.00210	265.04%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-162.1	-0.0077 mg/L	0.00038	-0.0077 mg/L	0.00038	4.89%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	908.9	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	16.62%
QC Failed. Continue with analysis.						

Sequence No.: 7

Sample ID: SEQ-IFB @2211114

Analyst:

Initial Sample Wt: **Se failed; 04/12/23 ATP**

Dilution:

Wash Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/11/2023 10:38:24 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB @2211114

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	149300.8	99.6 %		1.01			1.01%
Y axial	285172.5	90.4 %		0.97			1.07%
Ag 328.068†	35885.1	0.4212 mg/L		0.01077	0.4212 mg/L	0.01077	2.56%
QC value within limits for Ag 328.068 Recovery = 105.30%							
Al 396.153†	1048396.8	244.5 mg/L		0.61	244.5 mg/L	0.61	0.25%
QC value within limits for Al 396.153 Recovery = 97.79%							
As 188.979†	298.3	0.1886 mg/L		0.00360	0.1886 mg/L	0.00360	1.91%
QC value within limits for As 188.979 Recovery = 94.30%							
B 208.889†	153.5	0.0135 mg/L		0.00079	0.0135 mg/L	0.00079	5.85%
QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	102052.5	0.9996 mg/L		0.00025	0.9996 mg/L	0.00025	0.03%
QC value within limits for Ba 233.527 Recovery = 99.96%							
Be 313.107†	168875.8	1.014 mg/L		0.0026	1.014 mg/L	0.0026	0.26%
QC value within limits for Be 313.107 Recovery = 101.43%							
Ca 317.933†	1159433.1	240.9 mg/L		0.34	240.9 mg/L	0.34	0.14%
QC value within limits for Ca 317.933 Recovery = 96.36%							
Cd 228.802†	94449.0	2.039 mg/L		0.0050	2.039 mg/L	0.0050	0.25%
QC value within limits for Cd 228.802 Recovery = 101.96%							
Co 228.616†	43070.8	0.9090 mg/L		0.00735	0.9090 mg/L	0.00735	0.81%
QC value within limits for Co 228.616 Recovery = 90.90%							
Cr 267.716†	71586.3	0.9646 mg/L		0.00017	0.9646 mg/L	0.00017	0.02%

QC value within limits for Cr 267.716 Recovery = 96.46%

Cu 327.393† 157684.4 1.001 mg/L 0.0013 1.001 mg/L 0.0013 0.13%

QC value within limits for Cu 327.393 Recovery = 100.10%

Fe 238.204† 10249.6 98.33 mg/L 0.930 98.33 mg/L 0.930 0.95%

QC value within limits for Fe 238.204 Recovery = 98.33%

K 766.490† 23.9 0.0154 mg/L 0.01044 0.0154 mg/L 0.01044 67.78%

QC value within limits for K 766.490 Recovery = Not calculated

Mg 285.213† 1948307.1 206.7 mg/L 0.68 206.7 mg/L 0.68 0.33%

QC value within limits for Mg 285.213 Recovery = 82.68%

Mn 257.610† 5803.0 0.9831 mg/L 0.00899 0.9831 mg/L 0.00899 0.91%

QC value within limits for Mn 257.610 Recovery = 98.31%

Mo 202.031† -355.8 -0.0155 mg/L 0.00061 -0.0155 mg/L 0.00061 3.95%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592† 422.3 0.0667 mg/L 0.00217 0.0667 mg/L 0.00217 3.25%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604† 85052.2 1.827 mg/L 0.0017 1.827 mg/L 0.0017 0.09%

QC value within limits for Ni 231.604 Recovery = 91.34%

Pb 220.353† 509.8 0.0933 mg/L 0.00278 0.0933 mg/L 0.00278 2.97%

QC value within limits for Pb 220.353 Recovery = 93.31%

Sb 206.836† 4204.5 1.102 mg/L 0.0111 1.102 mg/L 0.0111 1.01%

QC value within limits for Sb 206.836 Recovery = 91.87%

Se 196.026† 328.6 0.1243 mg/L 0.00558 0.1243 mg/L 0.00558 4.49%

QC value greater than the upper limit for Se 196.026 Recovery = 124.34%

Sn 189.927† -59.6 -0.0087 mg/L 0.00402 -0.0087 mg/L 0.00402 45.96%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279† 8.2 0.0005 mg/L 0.00001 0.0005 mg/L 0.00001 2.68%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 351.924† 622.5 0.2126 mg/L 0.00593 0.2126 mg/L 0.00593 2.79%

QC value within limits for Tl 351.924 Recovery = 106.32%

V 290.880† 87403.6 1.025 mg/L 0.0023 1.025 mg/L 0.0023 0.22%

QC value within limits for V 290.880 Recovery = 102.45%

Zn 206.200† 77467.8 1.909 mg/L 0.0025 1.909 mg/L 0.0025 0.13%

QC value within limits for Zn 206.200 Recovery = 95.47%

Zr 343.823† 943.2 0.0007 mg/L 0.00012 0.0007 mg/L 0.00012 17.74%

QC Failed. Continue with analysis.

User canceled analysis.

Sequence No.: 9

Sample ID: SEQ-HCV1@100

Analyst:

Initial Sample Wt: Ba, Cd, Tl failed; 04/12/23

Dilution:

Wash Time (before sample):

Autosampler Location: 37

Date Collected: 4/11/2023 10:44:32 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV1@100

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155043.9	103 %		0.70			0.67%
Y axial	2989230.2	94.8 %		0.98			1.03%
Ag 328.068†	-1025.8	0.0081 mg/L		0.00130	0.0081 mg/L	0.00130	16.01%
Al 396.153†	424351.6	98.96 mg/L		0.269	98.96 mg/L	0.269	0.27%
QC value within limits for Al 396.153							Recovery = 98.96%
As 188.979†	180121.6	95.43 mg/L		0.176	95.43 mg/L	0.176	0.18%
QC value within limits for As 188.979							Recovery = 95.43%
B 208.889†	-4.5	0.0033 mg/L		0.00081	0.0033 mg/L	0.00081	24.84%
Ba 233.527†	8840922.0	86.61 mg/L		0.303	86.61 mg/L	0.303	0.35%
QC value less than the lower limit for Ba 233.527							Recovery = 86.61%
Be 313.107†	16198871.5	97.31 mg/L		1.681	97.31 mg/L	1.681	1.73%
QC value within limits for Be 313.107							Recovery = 97.31%
Ca 317.933†	657.1	0.1365 mg/L		0.01363	0.1365 mg/L	0.01363	9.98%
Cd 228.802†	3484441.8	74.97 mg/L		0.308	74.97 mg/L	0.308	0.41%
QC value less than the lower limit for Cd 228.802							Recovery = 74.97%
Co 228.616†	4410811.4	93.17 mg/L		0.282	93.17 mg/L	0.282	0.30%
QC value within limits for Co 228.616							Recovery = 93.17%
Cr 267.716†	7051284.7	94.82 mg/L		0.298	94.82 mg/L	0.298	0.31%
QC value within limits for Cr 267.716							Recovery = 94.82%
Cu 327.393†	15907058.9	100.7 mg/L		0.28	100.7 mg/L	0.28	0.28%
QC value within limits for Cu 327.393							Recovery = 100.74%

Fe 238.204†	10117.3	97.78 mg/L	0.412	97.78 mg/L	0.412	0.42%
QC value within limits for Fe 238.204 Recovery = 97.78%						
K 766.490†	-102.2	-0.0659 mg/L	0.03664	-0.0659 mg/L	0.03664	55.59%
Mg 285.213†	97.9	0.0419 mg/L	0.00364	0.0419 mg/L	0.00364	8.68%
Mn 257.610†	588903.9	99.77 mg/L	0.161	99.77 mg/L	0.161	0.16%
QC value within limits for Mn 257.610 Recovery = 99.77%						
Mo 202.031†	-1595.2	-0.0697 mg/L	0.00078	-0.0697 mg/L	0.00078	1.12%
Na 589.592†	188.4	0.0298 mg/L	0.01178	0.0298 mg/L	0.01178	39.58%
Ni 231.604†	4427131.3	94.98 mg/L	0.256	94.98 mg/L	0.256	0.27%
QC value within limits for Ni 231.604 Recovery = 94.98%						
Pb 220.353†	683290.6	96.66 mg/L	0.092	96.66 mg/L	0.092	0.10%
QC value within limits for Pb 220.353 Recovery = 96.66%						
Sb 206.836†	4202.4	-0.2461 mg/L	0.00553	-0.2461 mg/L	0.00553	2.25%
Se 196.026†	272401.8	103.8 mg/L	0.23	103.8 mg/L	0.23	0.22%
QC value within limits for Se 196.026 Recovery = 103.82%						
Sn 189.927†	-146.1	-0.0215 mg/L	0.00090	-0.0215 mg/L	0.00090	4.17%
Ti 337.279†	-55.6	-0.0031 mg/L	0.00029	-0.0031 mg/L	0.00029	9.23%
Tl 351.924†	566616.0	132.8 mg/L	0.19	132.8 mg/L	0.19	0.14%
QC value greater than the upper limit for Tl 351.924 Recovery = 132.82%						
V 290.880†	8090777.6	102.1 mg/L	0.27	102.1 mg/L	0.27	0.26%
QC value within limits for V 290.880 Recovery = 102.08%						
Zn 206.200†	3751614.8	92.86 mg/L	0.189	92.86 mg/L	0.189	0.20%
QC value within limits for Zn 206.200 Recovery = 92.86%						
Zr 343.823†	-1769.2	-0.0090 mg/L	0.00016	-0.0090 mg/L	0.00016	1.78%
QC Failed. Continue with analysis.						

Sequence No.: 10

Sample ID: SEQ-HCV2@500/100

Analyst:

Initial Sample Wt: K, Mg; Failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 220

Autosampler Location: 36

Date Collected: 4/11/2023 10:51:37 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	145072.8	96.8 %		1.01			1.04%
Y axial	2675700.5	84.9 %		0.88			1.03%
Ag 328.068†	-1696.3	-0.0199 mg/L		0.00143	-0.0199 mg/L	0.00143	7.17%
Al 396.153†	2182928.5	509.0 mg/L		7.42	509.0 mg/L	7.42	1.46%
QC value within limits for Al 396.153 Recovery = 101.81%							
As 188.979†	-153.4	0.0012 mg/L		0.00667	0.0012 mg/L	0.00667	554.34%
B 208.889†	1111140.8	91.84 mg/L		0.181	91.84 mg/L	0.181	0.20%
Ba 233.527†	1284.4	0.0127 mg/L		0.00054	0.0127 mg/L	0.00054	4.25%
Be 313.107†	1439.5	0.0083 mg/L		0.00044	0.0083 mg/L	0.00044	5.30%
Ca 317.933†	2298784.2	477.6 mg/L		7.59	477.6 mg/L	7.59	1.59%
QC value within limits for Ca 317.933 Recovery = 95.52%							
Cd 228.802†	302.3	0.0071 mg/L		0.00040	0.0071 mg/L	0.00040	5.71%
Co 228.616†	885.8	0.0186 mg/L		0.00038	0.0186 mg/L	0.00038	2.04%
Cr 267.716†	-142.4	0.0073 mg/L		0.00047	0.0073 mg/L	0.00047	6.40%
Cu 327.393†	3365.9	0.0328 mg/L		0.00073	0.0328 mg/L	0.00073	2.22%
Fe 238.204†	49512.9	475.5 mg/L		6.30	475.5 mg/L	6.30	1.32%
QC value within limits for Fe 238.204 Recovery = 95.10%							
K 766.490†	351299.0	226.4 mg/L		0.63	226.4 mg/L	0.63	0.28%
QC value greater than the upper limit for K 766.490 Recovery = 113.22%							
Mg 285.213†	1598101.0	169.7 mg/L		2.68	169.7 mg/L	2.68	1.58%
QC value less than the lower limit for Mg 285.213 Recovery = 84.84%							
Mn 257.610†	109.2	0.0185 mg/L		0.00093	0.0185 mg/L	0.00093	5.02%
Mo 202.031†	-1114.8	-0.0487 mg/L		0.00112	-0.0487 mg/L	0.00112	2.31%
Na 589.592†	3200778.4	505.4 mg/L		7.47	505.4 mg/L	7.47	1.48%
QC value within limits for Na 589.592 Recovery = 101.09%							
Ni 231.604†	1096.9	0.0239 mg/L		0.00020	0.0239 mg/L	0.00020	0.82%
Pb 220.353†	41.2	0.0366 mg/L		0.00043	0.0366 mg/L	0.00043	1.16%
Sb 206.836†	414.5	0.0031 mg/L		0.00174	0.0031 mg/L	0.00174	56.08%
Se 196.026†	57.3	0.0218 mg/L		0.00578	0.0218 mg/L	0.00578	26.50%
Sn 189.927†	107.9	0.0158 mg/L		0.00581	0.0158 mg/L	0.00581	36.66%
Ti 337.279†	22.1	0.0012 mg/L		0.00100	0.0012 mg/L	0.00100	80.24%
Tl 351.924†	-2409.9	-0.2289 mg/L		0.00215	-0.2289 mg/L	0.00215	0.94%

V 290.880†	10084.3	0.0146 mg/L	0.00183	0.0146 mg/L	0.00183	12.54%
Zn 206.200†	1258.9	0.0005 mg/L	0.00105	0.0005 mg/L	0.00105	208.52%
Zr 343.823†	3730.9	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	75.87%

QC Failed. Continue with analysis.

Sequence No.: 11

Sample ID: ICV-RR

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

User canceled analysis.

Autosampler Location: 25

Date Collected: 4/11/2023 10:59:22 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

S085874

Instrument: ICP3

Calibration ID: 2300441

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S085874-IFA1	QC		1		2211113	2304167	
S085874-IFB1	QC		2		2304164	2304167	
S085874-CCV1	QC		3		2211103	2304167	
S085874-CCB1	QC		4		2211096	2304167	
B335766-BLK1	QC		5			2304167	
B335766-BS1	QC		6			2304167	
S085874-CCV2	QC		7		2211103	2304167	
S085874-CCB2	QC		8		2211096	2304167	
B335766-BSD1	QC		9			2304167	
B335766-MS1	QC		10			2304167	
B335766-MSD1	QC		11			2304167	
23C3284-02	Cadmium 6010 Total	A	12			2304167	CAT B - Report to MDL
23C3284-02	Chromium 6010 Total	A	13			2304167	CAT B - Report to MDL
23C3284-02	Copper 6010 Total	A	14			2304167	CAT B - Report to MDL
23C3284-02	Nickel 6010 Total	A	15			2304167	CAT B - Report to MDL
23C3284-01	Cadmium 6010 Total	A	16			2304167	CAT B - Report to MDL
23C3284-01	Chromium 6010 Total	A	17			2304167	CAT B - Report to MDL
23C3284-01	Copper 6010 Total	A	18			2304167	CAT B - Report to MDL
23C3284-01	Nickel 6010 Total	A	19			2304167	CAT B - Report to MDL
23C3284-03	Cadmium 6010 Total	A	20			2304167	CAT B - Report to MDL
23C3284-03	Chromium 6010 Total	A	21			2304167	CAT B - Report to MDL
23C3284-03	Copper 6010 Total	A	22			2304167	CAT B - Report to MDL
23C3284-03	Nickel 6010 Total	A	23			2304167	CAT B - Report to MDL
23C3284-04	Cadmium 6010 Total	A	24			2304167	CAT B - Report to MDL
23C3284-04	Chromium 6010 Total	A	25			2304167	CAT B - Report to MDL
23C3284-04	Copper 6010 Total	A	26			2304167	CAT B - Report to MDL
23C3284-04	Nickel 6010 Total	A	27			2304167	CAT B - Report to MDL
23C3284-05	Cadmium 6010 Total	A	28			2304167	CAT B - Report to MDL
23C3284-05	Chromium 6010 Total	A	29			2304167	CAT B - Report to MDL
23C3284-05	Copper 6010 Total	A	30			2304167	CAT B - Report to MDL
23C3284-05	Nickel 6010 Total	A	31			2304167	CAT B - Report to MDL
S085874-CCV3	QC		32		2211103	2304167	
S085874-CCB3	QC		33		2211096	2304167	

Samples Loaded By

Date

Data Processed By

Date

S085874

Instrument: ICP3

Calibration ID: 2300441

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
23C3284-06	Cadmium 6010 Total	A	34			2304167	CAT B - Report to MDL
23C3284-06	Chromium 6010 Total	A	35			2304167	CAT B - Report to MDL
23C3284-06	Copper 6010 Total	A	36			2304167	CAT B - Report to MDL
23C3284-06	Nickel 6010 Total	A	37			2304167	CAT B - Report to MDL
23C3284-08	Cadmium 6010 Total	A	38			2304167	CAT B - Report to MDL
23C3284-08	Chromium 6010 Total	A	39			2304167	CAT B - Report to MDL
23C3284-08	Copper 6010 Total	A	40			2304167	CAT B - Report to MDL
23C3284-08	Nickel 6010 Total	A	41			2304167	CAT B - Report to MDL
S085874-IFA2	QC		42		2211113	2304167	
S085874-IFB2	QC		43		2304164	2304167	
S085874-CCV4	QC		44		2211103	2304167	
S085874-CCB4	QC		45		2211096	2304167	

Samples Loaded By

Date

Data Processed By

Date

Sequence No.: 1
 Sample ID: SEQ-ICV @2211094
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):
 User canceled analysis.

Autosampler Location: 8
 Date Collected: 4/11/2023 11:52:55 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sequence No.: 13
 Sample ID: RINSE
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):

Autosampler Location: 7
 Date Collected: 4/11/2023 11:53:23 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	159116.1	106 %		0.99			0.93%
Y axial	3171903.2	101 %		0.48			0.48%
Ag 328.068†	21.4	0.0003 mg/L		0.00059	0.0003 mg/L	0.00059	233.53%
Al 396.153†	15.5	0.0036 mg/L		0.00472	0.0036 mg/L	0.00472	131.45%
As 188.979†	-4.3	-0.0023 mg/L		0.00185	-0.0023 mg/L	0.00185	82.23%
B 208.889†	502.3	0.0415 mg/L		0.00032	0.0415 mg/L	0.00032	0.78%
Ba 233.527†	-20.4	-0.0002 mg/L		0.00004	-0.0002 mg/L	0.00004	18.37%
Be 313.107†	2.5	0.0000 mg/L		0.00005	0.0000 mg/L	0.00005	961.16%
Ca 317.933†	26.6	0.0055 mg/L		0.00546	0.0055 mg/L	0.00546	98.89%
Cd 228.802†	-1.7	-0.0000 mg/L		0.00001	-0.0000 mg/L	0.00001	22.98%
Co 228.616†	-20.2	-0.0004 mg/L		0.00008	-0.0004 mg/L	0.00008	17.57%
Cr 267.716†	64.6	0.0009 mg/L		0.00021	0.0009 mg/L	0.00021	24.51%
Cu 327.393†	1557.3	0.0099 mg/L		0.00080	0.0099 mg/L	0.00080	8.14%
Fe 238.204†	-0.7	-0.0070 mg/L		0.00094	-0.0070 mg/L	0.00094	13.52%
K 766.490†	-18.4	-0.0119 mg/L		0.03273	-0.0119 mg/L	0.03273	275.89%
Mg 285.213†	11.8	0.0012 mg/L		0.00054	0.0012 mg/L	0.00054	43.87%
Mn 257.610†	3.8	0.0006 mg/L		0.00097	0.0006 mg/L	0.00097	148.96%
Mo 202.031†	14.9	0.0007 mg/L		0.00010	0.0007 mg/L	0.00010	14.70%
Na 589.592†	201.3	0.0318 mg/L		0.01289	0.0318 mg/L	0.01289	40.54%
Ni 231.604†	-32.2	-0.0007 mg/L		0.00042	-0.0007 mg/L	0.00042	60.92%
Pb 220.353†	29.9	0.0042 mg/L		0.00053	0.0042 mg/L	0.00053	12.63%
Sb 206.836†	14.1	0.0039 mg/L		0.00134	0.0039 mg/L	0.00134	34.54%
Se 196.026†	2.5	0.0009 mg/L		0.00115	0.0009 mg/L	0.00115	122.21%
Sn 189.927†	9.9	0.0015 mg/L		0.00106	0.0015 mg/L	0.00106	72.86%
Ti 337.279†	27.9	0.0016 mg/L		0.00020	0.0016 mg/L	0.00020	12.48%
Tl 351.924†	7.5	0.0017 mg/L		0.00520	0.0017 mg/L	0.00520	299.49%
V 290.880†	262.0	0.0033 mg/L		0.00008	0.0033 mg/L	0.00008	2.27%
Zn 206.200†	41.7	0.0010 mg/L		0.00006	0.0010 mg/L	0.00006	5.97%
Zr 343.823†	89.9	0.0003 mg/L		0.00016	0.0003 mg/L	0.00016	49.41%

Sequence No.: 14
 Sample ID: B336661-BLK1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 220

Autosampler Location: 38
 Date Collected: 4/11/2023 12:00:55 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336661-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156555.1	104 %		1.33			1.27%
Y axial	3184274.2	101 %		0.25			0.25%
Ag 328.068†	1.0	0.0000 mg/L		0.00045	0.0000 mg/L	0.00045	>999.9%
Al 396.153†	33.2	0.0077 mg/L		0.00370	0.0077 mg/L	0.00370	47.85%
As 188.979†	-1.7	-0.0009 mg/L		0.00107	-0.0009 mg/L	0.00107	123.17%
B 208.889†	389.5	0.0322 mg/L		0.00059	0.0322 mg/L	0.00059	1.83%

Ba 233.527†	-7.5	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	84.28%
Be 313.107†	25.0	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	41.43%
Ca 317.933†	66.4	0.0138 mg/L	0.00251	0.0138 mg/L	0.00251	18.21%
Cd 228.802†	-9.7	-0.0002 mg/L	0.00010	-0.0002 mg/L	0.00010	49.99%
Co 228.616†	-8.5	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	3.28%
Cr 267.716†	15.5	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	78.76%
Cu 327.393†	132.9	0.0008 mg/L	0.00061	0.0008 mg/L	0.00061	72.52%
Fe 238.204†	-3.3	-0.0316 mg/L	0.01872	-0.0316 mg/L	0.01872	59.33%
K 766.490†	-69.4	-0.0448 mg/L	0.03059	-0.0448 mg/L	0.03059	68.35%
Mg 285.213†	11.6	0.0012 mg/L	0.00029	0.0012 mg/L	0.00029	23.70%
Mn 257.610†	-0.2	-0.0000 mg/L	0.00033	-0.0000 mg/L	0.00033	984.13%
Mo 202.031†	4.8	0.0002 mg/L	0.00026	0.0002 mg/L	0.00026	123.14%
Na 589.592†	167.3	0.0264 mg/L	0.00084	0.0264 mg/L	0.00084	3.17%
Ni 231.604†	-35.9	-0.0008 mg/L	0.00007	-0.0008 mg/L	0.00007	8.68%
Pb 220.353†	22.5	0.0032 mg/L	0.00085	0.0032 mg/L	0.00085	26.77%
Sb 206.836†	10.4	0.0029 mg/L	0.00066	0.0029 mg/L	0.00066	23.08%
Se 196.026†	-4.7	-0.0018 mg/L	0.00432	-0.0018 mg/L	0.00432	238.96%
Sn 189.927†	2.1	0.0003 mg/L	0.00070	0.0003 mg/L	0.00070	225.88%
Ti 337.279†	13.1	0.0007 mg/L	0.00011	0.0007 mg/L	0.00011	15.36%
Tl 351.924†	-3.2	-0.0008 mg/L	0.00606	-0.0008 mg/L	0.00606	769.15%
V 290.880†	272.1	0.0034 mg/L	0.00004	0.0034 mg/L	0.00004	1.17%
Zn 206.200†	93.2	0.0023 mg/L	0.00036	0.0023 mg/L	0.00036	15.60%
Zr 343.823†	33.3	0.0001 mg/L	0.00026	0.0001 mg/L	0.00026	214.44%

Sequence No.: 15

Sample ID: B336661-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 39

Date Collected: 4/11/2023 12:06:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336661-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156494.0	104	%	0.67			0.64%
Y axial	3126338.4	99.1	%	0.33			0.34%
Ag 328.068†	45254.6	0.5310	mg/L	0.00546	0.5310 mg/L	0.00546	1.03%
Al 396.153†	2104.3	0.4755	mg/L	0.00912	0.4755 mg/L	0.00912	1.92%
As 188.979†	934.2	0.4943	mg/L	0.00156	0.4943 mg/L	0.00156	0.32%
B 208.889†	12188.8	0.9810	mg/L	0.00045	0.9810 mg/L	0.00045	0.05%
Ba 233.527†	52452.0	0.5138	mg/L	0.00151	0.5138 mg/L	0.00151	0.29%
Be 313.107†	86281.4	0.5183	mg/L	0.00813	0.5183 mg/L	0.00813	1.57%
Ca 317.933†	18894.2	3.926	mg/L	0.0515	3.926 mg/L	0.0515	1.31%
Cd 228.802†	23632.7	0.5088	mg/L	0.00190	0.5088 mg/L	0.00190	0.37%
Co 228.616†	23731.8	0.5012	mg/L	0.00066	0.5012 mg/L	0.00066	0.13%
Cr 267.716†	37281.3	0.5013	mg/L	0.00188	0.5013 mg/L	0.00188	0.38%
Cu 327.393†	153951.9	0.9758	mg/L	0.00392	0.9758 mg/L	0.00392	0.40%
Fe 238.204†	420.9	4.045	mg/L	0.0359	4.045 mg/L	0.0359	0.89%
K 766.490†	5962.7	3.844	mg/L	0.0674	3.844 mg/L	0.0674	1.75%
Mg 285.213†	35571.6	3.775	mg/L	0.0486	3.775 mg/L	0.0486	1.29%
Mn 257.610†	3043.0	0.5155	mg/L	0.00369	0.5155 mg/L	0.00369	0.72%
Mo 202.031†	11537.9	0.5040	mg/L	0.00128	0.5040 mg/L	0.00128	0.25%
Na 589.592†	24788.3	3.914	mg/L	0.0486	3.914 mg/L	0.0486	1.24%
Ni 231.604†	23719.9	0.5091	mg/L	0.00260	0.5091 mg/L	0.00260	0.51%
Pb 220.353†	3657.5	0.5188	mg/L	0.00222	0.5188 mg/L	0.00222	0.43%
Sb 206.836†	1887.3	0.5093	mg/L	0.00094	0.5093 mg/L	0.00094	0.18%
Se 196.026†	1382.1	0.5267	mg/L	0.00411	0.5267 mg/L	0.00411	0.78%
Sn 189.927†	3513.0	0.5183	mg/L	0.00050	0.5183 mg/L	0.00050	0.10%
Ti 337.279†	8804.2	0.4968	mg/L	0.00808	0.4968 mg/L	0.00808	1.63%
Tl 351.924†	2650.1	0.6215	mg/L	0.00238	0.6215 mg/L	0.00238	0.38%
V 290.880†	42977.9	0.5538	mg/L	0.00250	0.5538 mg/L	0.00250	0.45%
Zn 206.200†	42792.5	1.056	mg/L	0.0033	1.056 mg/L	0.0033	0.31%
Zr 343.823†	248.2	0.0008	mg/L	0.00001	0.0008 mg/L	0.00001	1.51%

Sequence No.: 16

Sample ID: B336661-BSD1

Analyst:

Autosampler Location: 40

Date Collected: 4/11/2023 12:14:27 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336661-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	161014.8	107	%	0.38				0.35%
Y axial	3152530.7	100.0	%	2.43				2.43%
Ag 328.068†	45102.9	0.5293	mg/L	0.01817	0.5293	mg/L	0.01817	3.43%
Al 396.153†	2076.6	0.4691	mg/L	0.00647	0.4691	mg/L	0.00647	1.38%
As 188.979†	926.8	0.4904	mg/L	0.01311	0.4904	mg/L	0.01311	2.67%
B 208.889†	12169.7	0.9794	mg/L	0.02513	0.9794	mg/L	0.02513	2.57%
Ba 233.527†	52505.5	0.5143	mg/L	0.01370	0.5143	mg/L	0.01370	2.66%
Be 313.107†	86720.3	0.5210	mg/L	0.00913	0.5210	mg/L	0.00913	1.75%
Ca 317.933†	18898.8	3.927	mg/L	0.0632	3.927	mg/L	0.0632	1.61%
Cd 228.802†	23572.6	0.5075	mg/L	0.01394	0.5075	mg/L	0.01394	2.75%
Co 228.616†	23689.8	0.5003	mg/L	0.01469	0.5003	mg/L	0.01469	2.94%
Cr 267.716†	37276.5	0.5013	mg/L	0.01343	0.5013	mg/L	0.01343	2.68%
Cu 327.393†	153957.2	0.9758	mg/L	0.02631	0.9758	mg/L	0.02631	2.70%
Fe 238.204†	412.3	3.962	mg/L	0.0203	3.962	mg/L	0.0203	0.51%
K 766.490†	5885.9	3.794	mg/L	0.0458	3.794	mg/L	0.0458	1.21%
Mg 285.213†	35599.3	3.778	mg/L	0.0585	3.778	mg/L	0.0585	1.55%
Mn 257.610†	2962.8	0.5019	mg/L	0.00278	0.5019	mg/L	0.00278	0.55%
Mo 202.031†	11525.4	0.5034	mg/L	0.01341	0.5034	mg/L	0.01341	2.66%
Na 589.592†	24731.1	3.905	mg/L	0.0587	3.905	mg/L	0.0587	1.50%
Ni 231.604†	23778.9	0.5104	mg/L	0.01194	0.5104	mg/L	0.01194	2.34%
Pb 220.353†	3652.1	0.5180	mg/L	0.01439	0.5180	mg/L	0.01439	2.78%
Sb 206.836†	1866.5	0.5036	mg/L	0.01537	0.5036	mg/L	0.01537	3.05%
Se 196.026†	1387.0	0.5286	mg/L	0.01380	0.5286	mg/L	0.01380	2.61%
Sn 189.927†	3506.6	0.5173	mg/L	0.01444	0.5173	mg/L	0.01444	2.79%
Ti 337.279†	8857.4	0.4998	mg/L	0.00698	0.4998	mg/L	0.00698	1.40%
Tl 351.924†	2657.8	0.6232	mg/L	0.01468	0.6232	mg/L	0.01468	2.36%
V 290.880†	43001.0	0.5541	mg/L	0.01415	0.5541	mg/L	0.01415	2.55%
Zn 206.200†	42753.7	1.055	mg/L	0.0281	1.055	mg/L	0.0281	2.67%
Zr 343.823†	154.2	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	15.57%

Sequence No.: 17

Autosampler Location: 41

Sample ID: B336661-MS1

Date Collected: 4/11/2023 12:22:07 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336661-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154060.6	103	%	1.10				1.07%
Y axial	3017517.8	95.7	%	0.72				0.75%
Ag 328.068†	45560.4	0.5346	mg/L	0.00978	0.5346	mg/L	0.00978	1.83%
Al 396.153†	6512.5	1.503	mg/L	0.0169	1.503	mg/L	0.0169	1.12%
As 188.979†	974.8	0.5158	mg/L	0.00210	0.5158	mg/L	0.00210	0.41%
B 208.889†	12915.1	1.040	mg/L	0.0100	1.040	mg/L	0.0100	0.96%
Ba 233.527†	57220.7	0.5605	mg/L	0.00159	0.5605	mg/L	0.00159	0.28%
Be 313.107†	89822.4	0.5396	mg/L	0.00987	0.5396	mg/L	0.00987	1.83%
Ca 317.933†	205852.9	42.77	mg/L	0.119	42.77	mg/L	0.119	0.28%
Cd 228.802†	24211.2	0.5212	mg/L	0.00232	0.5212	mg/L	0.00232	0.45%
Co 228.616†	23996.5	0.5068	mg/L	0.00104	0.5068	mg/L	0.00104	0.20%
Cr 267.716†	38271.9	0.5145	mg/L	0.00107	0.5145	mg/L	0.00107	0.21%
Cu 327.393†	161764.5	1.025	mg/L	0.0009	1.025	mg/L	0.0009	0.09%
Fe 238.204†	452.3	4.327	mg/L	0.0611	4.327	mg/L	0.0611	1.41%
K 766.490†	12044.7	7.764	mg/L	0.1283	7.764	mg/L	0.1283	1.65%
Mg 285.213†	84326.0	8.946	mg/L	0.1574	8.946	mg/L	0.1574	1.76%
Mn 257.610†	7885.1	1.336	mg/L	0.0297	1.336	mg/L	0.0297	2.23%
Mo 202.031†	11837.5	0.5171	mg/L	0.00547	0.5171	mg/L	0.00547	1.06%
Na 589.592†	466991.3	73.74	mg/L	0.165	73.74	mg/L	0.165	0.22%
Ni 231.604†	24005.6	0.5152	mg/L	0.00228	0.5152	mg/L	0.00228	0.44%

Pb 220.353†	3619.9	0.5138 mg/L	0.00454	0.5138 mg/L	0.00454	0.88%
Sb 206.836†	1961.5	0.5293 mg/L	0.00731	0.5293 mg/L	0.00731	1.38%
Se 196.026†	1429.7	0.5449 mg/L	0.00616	0.5449 mg/L	0.00616	1.13%
Sn 189.927†	3676.4	0.5424 mg/L	0.00656	0.5424 mg/L	0.00656	1.21%
Ti 337.279†	9186.1	0.5183 mg/L	0.01049	0.5183 mg/L	0.01049	2.02%
Tl 351.924†	2625.8	0.6158 mg/L	0.00659	0.6158 mg/L	0.00659	1.07%
V 290.880†	45393.9	0.5830 mg/L	0.00040	0.5830 mg/L	0.00040	0.07%
Zn 206.200†	44047.6	1.087 mg/L	0.0051	1.087 mg/L	0.0051	0.47%
Zr 343.823†	161.2	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.12%

Sequence No.: 18

Sample ID: B336661-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 42

Date Collected: 4/11/2023 12:29:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336661-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155328.2	104 %		1.07			1.03%
Y axial	3058600.6	97.0 %		0.67			0.69%
Ag 328.068†	-0.1	-0.0000 mg/L		0.00019	-0.0000 mg/L	0.00019	>999.9%
Al 396.153†	4226.9	0.9857 mg/L		0.00695	0.9857 mg/L	0.00695	0.71%
As 188.979†	-1.5	-0.0007 mg/L		0.00095	-0.0007 mg/L	0.00095	133.65%
B 208.889†	659.8	0.0545 mg/L		0.00046	0.0545 mg/L	0.00046	0.84%
Ba 233.527†	4060.8	0.0397 mg/L		0.00039	0.0397 mg/L	0.00039	0.98%
Be 313.107†	34.8	0.0002 mg/L		0.00008	0.0002 mg/L	0.00008	52.00%
Ca 317.933†	182811.3	37.98 mg/L		0.014	37.98 mg/L	0.014	0.04%
Cd 228.802†	0.5	0.0000 mg/L		0.00023	0.0000 mg/L	0.00023	>999.9%
Co 228.616†	54.0	0.0011 mg/L		0.00008	0.0011 mg/L	0.00008	6.87%
Cr 267.716†	173.2	0.0022 mg/L		0.00011	0.0022 mg/L	0.00011	5.14%
Cu 327.393†	344.5	0.0022 mg/L		0.00025	0.0022 mg/L	0.00025	11.26%
Fe 238.204†	20.2	0.1759 mg/L		0.00653	0.1759 mg/L	0.00653	3.71%
K 766.490†	5607.6	3.615 mg/L		0.0393	3.615 mg/L	0.0393	1.09%
Mg 285.213†	47014.4	4.987 mg/L		0.0450	4.987 mg/L	0.0450	0.90%
Mn 257.610†	4676.8	0.7923 mg/L		0.01459	0.7923 mg/L	0.01459	1.84%
Mo 202.031†	10.6	0.0005 mg/L		0.00026	0.0005 mg/L	0.00026	55.85%
Na 589.592†	434791.2	68.66 mg/L		0.207	68.66 mg/L	0.207	0.30%
Ni 231.604†	50.2	0.0011 mg/L		0.00012	0.0011 mg/L	0.00012	11.49%
Pb 220.353†	17.8	0.0029 mg/L		0.00180	0.0029 mg/L	0.00180	62.83%
Sb 206.836†	21.8	0.0059 mg/L		0.00261	0.0059 mg/L	0.00261	44.56%
Se 196.026†	1.7	0.0006 mg/L		0.00272	0.0006 mg/L	0.00272	435.04%
Sn 189.927†	100.7	0.0148 mg/L		0.00106	0.0148 mg/L	0.00106	7.13%
Ti 337.279†	48.2	0.0027 mg/L		0.00037	0.0027 mg/L	0.00037	13.49%
Tl 351.924†	-7.6	-0.0017 mg/L		0.00290	-0.0017 mg/L	0.00290	171.01%
V 290.880†	1221.1	0.0138 mg/L		0.00024	0.0138 mg/L	0.00024	1.77%
Zn 206.200†	320.2	0.0072 mg/L		0.00014	0.0072 mg/L	0.00014	1.99%
Zr 343.823†	123.1	0.0004 mg/L		0.00003	0.0004 mg/L	0.00003	7.06%

Sequence No.: 19

Sample ID: 23D0190-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 43

Date Collected: 4/11/2023 12:35:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23D0190-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156720.6	105 %		0.33			0.31%
Y axial	3050998.9	96.8 %		0.48			0.49%
Ag 328.068†	17.6	0.0002 mg/L		0.00062	0.0002 mg/L	0.00062	296.34%
Al 396.153†	4249.4	0.9909 mg/L		0.01630	0.9909 mg/L	0.01630	1.65%
As 188.979†	-2.1	-0.0010 mg/L		0.00062	-0.0010 mg/L	0.00062	60.01%
B 208.889†	593.6	0.0491 mg/L		0.00070	0.0491 mg/L	0.00070	1.42%

Ba 233.527†	4108.0	0.0402 mg/L	0.00030	0.0402 mg/L	0.00030	0.74%
Be 313.107†	23.1	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	33.46%
Ca 317.933†	185340.6	38.51 mg/L	0.109	38.51 mg/L	0.109	0.28%
Cd 228.802†	-0.8	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	>999.9%
Co 228.616†	57.0	0.0012 mg/L	0.00012	0.0012 mg/L	0.00012	9.97%
Cr 267.716†	157.9	0.0020 mg/L	0.00024	0.0020 mg/L	0.00024	12.09%
Cu 327.393†	323.4	0.0021 mg/L	0.00038	0.0021 mg/L	0.00038	18.45%
Fe 238.204†	22.8	0.2004 mg/L	0.01605	0.2004 mg/L	0.01605	8.01%
K 766.490†	5687.4	3.666 mg/L	0.0787	3.666 mg/L	0.0787	2.15%
Mg 285.213†	47267.7	5.014 mg/L	0.0725	5.014 mg/L	0.0725	1.45%
Mn 257.610†	4717.6	0.7992 mg/L	0.01397	0.7992 mg/L	0.01397	1.75%
Mo 202.031†	5.3	0.0002 mg/L	0.00023	0.0002 mg/L	0.00023	99.56%
Na 589.592†	440215.0	69.52 mg/L	0.033	69.52 mg/L	0.033	0.05%
Ni 231.604†	39.1	0.0008 mg/L	0.00021	0.0008 mg/L	0.00021	25.01%
Pb 220.353†	7.8	0.0015 mg/L	0.00203	0.0015 mg/L	0.00203	139.71%
Sb 206.836†	19.2	0.0052 mg/L	0.00200	0.0052 mg/L	0.00200	38.71%
Se 196.026†	-3.5	-0.0013 mg/L	0.00223	-0.0013 mg/L	0.00223	165.44%
Sn 189.927†	87.2	0.0128 mg/L	0.00238	0.0128 mg/L	0.00238	18.59%
Ti 337.279†	46.2	0.0026 mg/L	0.00058	0.0026 mg/L	0.00058	22.42%
Tl 351.924†	8.0	0.0020 mg/L	0.00204	0.0020 mg/L	0.00204	103.59%
V 290.880†	1272.8	0.0144 mg/L	0.00070	0.0144 mg/L	0.00070	4.87%
Zn 206.200†	237.3	0.0051 mg/L	0.00016	0.0051 mg/L	0.00016	3.02%
Zr 343.823†	123.5	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	27.05%

User canceled analysis.

Sequence No.: 1
 Sample ID: SEQ-ICV @2211094
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):
 User canceled analysis.

Autosampler Location: 8
 Date Collected: 4/11/2023 12:53:56 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sequence No.: 20
 Sample ID: B336693-BLK1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):

Autosampler Location: 44
 Date Collected: 4/11/2023 12:54:26 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336693-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153573.8	102 %		0.72			0.70%
Y axial	3156161.6	100 %		0.56			0.56%
Ag 328.068†	9.9	0.0001 mg/L		0.00080	0.0001 mg/L	0.00080	694.29%
Al 396.153†	204.8	0.0477 mg/L		0.04583	0.0477 mg/L	0.04583	96.03%
As 188.979†	-7.4	-0.0038 mg/L		0.00110	-0.0038 mg/L	0.00110	28.59%
B 208.889†	238.7	0.0197 mg/L		0.00015	0.0197 mg/L	0.00015	0.77%
Ba 233.527†	57.8	0.0006 mg/L		0.00026	0.0006 mg/L	0.00026	45.22%
Be 313.107†	63.2	0.0004 mg/L		0.00016	0.0004 mg/L	0.00016	42.32%
Ca 317.933†	532.6	0.1107 mg/L		0.05206	0.1107 mg/L	0.05206	47.04%
Cd 228.802†	10.9	0.0003 mg/L		0.00005	0.0003 mg/L	0.00005	18.40%
Co 228.616†	-22.7	-0.0005 mg/L		0.00016	-0.0005 mg/L	0.00016	33.21%
Cr 267.716†	206.0	0.0028 mg/L		0.00012	0.0028 mg/L	0.00012	4.18%
Cu 327.393†	3035.7	0.0192 mg/L		0.00213	0.0192 mg/L	0.00213	11.09%
Fe 238.204†	21.7	0.2089 mg/L		0.14687	0.2089 mg/L	0.14687	70.31%
K 766.490†	18.4	0.0118 mg/L		0.03147	0.0118 mg/L	0.03147	265.67%
Mg 285.213†	235.4	0.0250 mg/L		0.01559	0.0250 mg/L	0.01559	62.28%
Mn 257.610†	28.4	0.0048 mg/L		0.00118	0.0048 mg/L	0.00118	24.56%
Mo 202.031†	14.2	0.0006 mg/L		0.00027	0.0006 mg/L	0.00027	43.53%
Na 589.592†	374.4	0.0591 mg/L		0.01021	0.0591 mg/L	0.01021	17.27%
Ni 231.604†	36.6	0.0008 mg/L		0.00042	0.0008 mg/L	0.00042	53.86%
Pb 220.353†	56.9	0.0080 mg/L		0.00181	0.0080 mg/L	0.00181	22.46%
Sb 206.836†	24.7	0.0067 mg/L		0.00190	0.0067 mg/L	0.00190	28.25%
Se 196.026†	4.0	0.0015 mg/L		0.00098	0.0015 mg/L	0.00098	64.85%
Sn 189.927†	272.0	0.0399 mg/L		0.00072	0.0399 mg/L	0.00072	1.79%
Ti 337.279†	75.5	0.0043 mg/L		0.00253	0.0043 mg/L	0.00253	59.40%
Tl 351.924†	29.3	0.0070 mg/L		0.01308	0.0070 mg/L	0.01308	186.63%
V 290.880†	341.1	0.0043 mg/L		0.00016	0.0043 mg/L	0.00016	3.66%
Zn 206.200†	320.0	0.0079 mg/L		0.00073	0.0079 mg/L	0.00073	9.28%
Zr 343.823†	100.7	0.0004 mg/L		0.00006	0.0004 mg/L	0.00006	16.62%

Sequence No.: 21
 Sample ID: B336693-MRL3
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 220

Autosampler Location: 45
 Date Collected: 4/11/2023 1:02:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336693-MRL3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155211.5	104 %		1.83			1.77%
Y axial	3145595.0	99.8 %		1.02			1.02%
Ag 328.068†	851.6	0.0100 mg/L		0.00058	0.0100 mg/L	0.00058	5.81%
Al 396.153†	2154.0	0.4992 mg/L		0.00688	0.4992 mg/L	0.00688	1.38%
As 188.979†	165.9	0.0871 mg/L		0.00047	0.0871 mg/L	0.00047	0.54%
B 208.889†	1246.5	0.0976 mg/L		0.00136	0.0976 mg/L	0.00136	1.39%

Ba 233.527†	5168.8	0.0506 mg/L	0.00038	0.0506 mg/L	0.00038	0.75%
Be 313.107†	801.4	0.0048 mg/L	0.00033	0.0048 mg/L	0.00033	6.89%
Ca 317.933†	2479.1	0.5151 mg/L	0.01505	0.5151 mg/L	0.01505	2.92%
Cd 228.802†	443.5	0.0093 mg/L	0.00019	0.0093 mg/L	0.00019	2.03%
Co 228.616†	2252.2	0.0476 mg/L	0.00041	0.0476 mg/L	0.00041	0.87%
Cr 267.716†	1672.1	0.0225 mg/L	0.00047	0.0225 mg/L	0.00047	2.11%
Cu 327.393†	4630.0	0.0295 mg/L	0.00017	0.0295 mg/L	0.00017	0.59%
Fe 238.204†	57.3	0.5496 mg/L	0.05762	0.5496 mg/L	0.05762	10.48%
K 766.490†	7381.6	4.758 mg/L	0.1359	4.758 mg/L	0.1359	2.86%
Mg 285.213†	4549.2	0.4827 mg/L	0.01316	0.4827 mg/L	0.01316	2.73%
Mn 257.610†	68.4	0.0116 mg/L	0.00048	0.0116 mg/L	0.00048	4.18%
Mo 202.031†	2371.0	0.1036 mg/L	0.00107	0.1036 mg/L	0.00107	1.03%
Na 589.592†	31282.1	4.940 mg/L	0.1510	4.940 mg/L	0.1510	3.06%
Ni 231.604†	881.4	0.0189 mg/L	0.00022	0.0189 mg/L	0.00022	1.16%
Pb 220.353†	142.2	0.0205 mg/L	0.00126	0.0205 mg/L	0.00126	6.14%
Sb 206.836†	181.8	0.0492 mg/L	0.00069	0.0492 mg/L	0.00069	1.40%
Se 196.026†	232.1	0.0885 mg/L	0.00081	0.0885 mg/L	0.00081	0.91%
Sn 189.927†	929.2	0.1369 mg/L	0.00174	0.1369 mg/L	0.00174	1.27%
Ti 337.279†	1812.4	0.1023 mg/L	0.00454	0.1023 mg/L	0.00454	4.44%
Tl 351.924†	263.0	0.0616 mg/L	0.00936	0.0616 mg/L	0.00936	15.19%
V 290.880†	2128.2	0.0293 mg/L	0.00108	0.0293 mg/L	0.00108	3.68%
Zn 206.200†	954.4	0.0236 mg/L	0.00091	0.0236 mg/L	0.00091	3.87%
Zr 343.823†	165.5	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	20.51%

Sequence No.: 22

Sample ID: B336693-MRL4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 46

Date Collected: 4/11/2023 1:09:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336693-MRL4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150601.5	100	%	1.28			1.28%
Y axial	3045454.4	96.6	%	1.13			1.17%
Ag 328.068†	872.6	0.0102 mg/L		0.00067	0.0102 mg/L	0.00067	6.53%
Al 396.153†	2211.2	0.5124 mg/L		0.00395	0.5124 mg/L	0.00395	0.77%
As 188.979†	164.5	0.0863 mg/L		0.00410	0.0863 mg/L	0.00410	4.75%
B 208.889†	1269.4	0.0993 mg/L		0.00121	0.0993 mg/L	0.00121	1.22%
Ba 233.527†	5293.1	0.0518 mg/L		0.00047	0.0518 mg/L	0.00047	0.90%
Be 313.107†	876.7	0.0052 mg/L		0.00019	0.0052 mg/L	0.00019	3.74%
Ca 317.933†	2540.6	0.5279 mg/L		0.00783	0.5279 mg/L	0.00783	1.48%
Cd 228.802†	456.8	0.0096 mg/L		0.00003	0.0096 mg/L	0.00003	0.36%
Co 228.616†	2302.7	0.0486 mg/L		0.00027	0.0486 mg/L	0.00027	0.56%
Cr 267.716†	1695.4	0.0228 mg/L		0.00031	0.0228 mg/L	0.00031	1.37%
Cu 327.393†	4430.7	0.0282 mg/L		0.00036	0.0282 mg/L	0.00036	1.27%
Fe 238.204†	55.6	0.5330 mg/L		0.01596	0.5330 mg/L	0.01596	2.99%
K 766.490†	7719.6	4.976 mg/L		0.0306	4.976 mg/L	0.0306	0.62%
Mg 285.213†	4749.2	0.5039 mg/L		0.00399	0.5039 mg/L	0.00399	0.79%
Mn 257.610†	69.8	0.0118 mg/L		0.00068	0.0118 mg/L	0.00068	5.72%
Mo 202.031†	2441.4	0.1066 mg/L		0.00079	0.1066 mg/L	0.00079	0.75%
Na 589.592†	32556.6	5.141 mg/L		0.0087	5.141 mg/L	0.0087	0.17%
Ni 231.604†	911.0	0.0195 mg/L		0.00009	0.0195 mg/L	0.00009	0.44%
Pb 220.353†	148.7	0.0214 mg/L		0.00046	0.0214 mg/L	0.00046	2.15%
Sb 206.836†	195.5	0.0529 mg/L		0.00111	0.0529 mg/L	0.00111	2.09%
Se 196.026†	228.4	0.0871 mg/L		0.00149	0.0871 mg/L	0.00149	1.71%
Sn 189.927†	963.6	0.1420 mg/L		0.00193	0.1420 mg/L	0.00193	1.36%
Ti 337.279†	1865.1	0.1052 mg/L		0.00075	0.1052 mg/L	0.00075	0.71%
Tl 351.924†	264.3	0.0619 mg/L		0.00667	0.0619 mg/L	0.00667	10.77%
V 290.880†	2139.3	0.0296 mg/L		0.00067	0.0296 mg/L	0.00067	2.28%
Zn 206.200†	942.8	0.0233 mg/L		0.00035	0.0233 mg/L	0.00035	1.52%
Zr 343.823†	149.7	0.0005 mg/L		0.00018	0.0005 mg/L	0.00018	34.18%

Sequence No.: 23

Sample ID: SEQ-IFA @2211113

Analyst:

Autosampler Location: 11

Date Collected: 4/11/2023 1:17:31 PM

Data Type: Original

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

User canceled analysis.

Initial Sample Vol:

Sample Prep Vol:

Sequence No.: 1
 Sample ID: SEQ-ICV @2211094
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):
 User canceled analysis.

Autosampler Location: 8
 Date Collected: 4/11/2023 1:28:42 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sequence No.: 23
 Sample ID: RINSE
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):

Autosampler Location: 7
 Date Collected: 4/11/2023 1:29:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151569.3	101 %		1.15			1.14%
Y axial	3181034.7	101 %		1.46			1.45%
Ag 328.068†	-6.6	-0.0001 mg/L		0.00122	-0.0001 mg/L	0.00122	>999.9%
Al 396.153†	41.8	0.0097 mg/L		0.00715	0.0097 mg/L	0.00715	73.38%
As 188.979†	-2.5	-0.0013 mg/L		0.00138	-0.0013 mg/L	0.00138	107.45%
B 208.889†	59.3	0.0049 mg/L		0.00052	0.0049 mg/L	0.00052	10.59%
Ba 233.527†	-20.1	-0.0002 mg/L		0.00004	-0.0002 mg/L	0.00004	22.53%
Be 313.107†	-19.4	-0.0001 mg/L		0.00009	-0.0001 mg/L	0.00009	71.67%
Ca 317.933†	35.9	0.0075 mg/L		0.00133	0.0075 mg/L	0.00133	17.83%
Cd 228.802†	-6.7	-0.0001 mg/L		0.00012	-0.0001 mg/L	0.00012	82.83%
Co 228.616†	-24.9	-0.0005 mg/L		0.00018	-0.0005 mg/L	0.00018	33.93%
Cr 267.716†	53.4	0.0007 mg/L		0.00008	0.0007 mg/L	0.00008	11.76%
Cu 327.393†	216.1	0.0014 mg/L		0.00029	0.0014 mg/L	0.00029	21.04%
Fe 238.204†	1.3	0.0124 mg/L		0.02362	0.0124 mg/L	0.02362	190.09%
K 766.490†	-78.9	-0.0509 mg/L		0.01981	-0.0509 mg/L	0.01981	38.94%
Mg 285.213†	34.8	0.0037 mg/L		0.00038	0.0037 mg/L	0.00038	10.37%
Mn 257.610†	-0.3	-0.0001 mg/L		0.00050	-0.0001 mg/L	0.00050	990.54%
Mo 202.031†	6.7	0.0003 mg/L		0.00007	0.0003 mg/L	0.00007	22.39%
Na 589.592†	129.2	0.0204 mg/L		0.00082	0.0204 mg/L	0.00082	4.00%
Ni 231.604†	-26.8	-0.0006 mg/L		0.00010	-0.0006 mg/L	0.00010	16.91%
Pb 220.353†	25.1	0.0036 mg/L		0.00131	0.0036 mg/L	0.00131	36.74%
Sb 206.836†	14.9	0.0041 mg/L		0.00077	0.0041 mg/L	0.00077	18.89%
Se 196.026†	-4.3	-0.0016 mg/L		0.00241	-0.0016 mg/L	0.00241	146.68%
Sn 189.927†	8.3	0.0012 mg/L		0.00175	0.0012 mg/L	0.00175	144.21%
Ti 337.279†	3.5	0.0002 mg/L		0.00029	0.0002 mg/L	0.00029	149.79%
Tl 351.924†	46.7	0.0110 mg/L		0.01095	0.0110 mg/L	0.01095	99.69%
V 290.880†	126.1	0.0016 mg/L		0.00021	0.0016 mg/L	0.00021	13.30%
Zn 206.200†	26.3	0.0007 mg/L		0.00013	0.0007 mg/L	0.00013	19.52%
Zr 343.823†	73.8	0.0003 mg/L		0.00018	0.0003 mg/L	0.00018	68.43%

Sequence No.: 24
 Sample ID: B336578-BLK1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 110

Autosampler Location: 47
 Date Collected: 4/11/2023 1:34:44 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: B336578-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	152245.8	102 %		0.99			0.97%
Y axial	3211196.4	102 %		0.52			0.51%
Ag 328.068†	0.6	0.0000 mg/L		0.00022	0.0000 mg/L	0.00022	>999.9%
Al 396.153†	29.0	0.0068 mg/L		0.00194	0.0068 mg/L	0.00194	28.69%
As 188.979†	-1.9	-0.0010 mg/L		0.00026	-0.0010 mg/L	0.00026	27.03%
B 208.889†	31.3	0.0026 mg/L		0.00067	0.0026 mg/L	0.00067	25.93%

Ba	233.527†	-9.0	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	188.42%
Be	313.107†	-23.2	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	78.49%
Ca	317.933†	52.5	0.0109	mg/L	0.00148	0.0109	mg/L	0.00148	13.55%
Cd	228.802†	-10.2	-0.0002	mg/L	0.00011	-0.0002	mg/L	0.00011	49.01%
Co	228.616†	-12.1	-0.0003	mg/L	0.00019	-0.0003	mg/L	0.00019	74.14%
Cr	267.716†	1.9	0.0000	mg/L	0.00020	0.0000	mg/L	0.00020	740.51%
Cu	327.393†	54.2	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	28.64%
Fe	238.204†	0.3	0.0033	mg/L	0.02084	0.0033	mg/L	0.02084	629.07%
K	766.490†	-0.8	-0.0005	mg/L	0.01131	-0.0005	mg/L	0.01131	>999.9%
Mg	285.213†	33.4	0.0035	mg/L	0.00109	0.0035	mg/L	0.00109	30.98%
Mn	257.610†	-0.4	-0.0001	mg/L	0.00051	-0.0001	mg/L	0.00051	815.96%
Mo	202.031†	3.2	0.0001	mg/L	0.00035	0.0001	mg/L	0.00035	256.26%
Na	589.592†	77.0	0.0122	mg/L	0.00664	0.0122	mg/L	0.00664	54.67%
Ni	231.604†	-25.7	-0.0006	mg/L	0.00032	-0.0006	mg/L	0.00032	56.94%
Pb	220.353†	15.6	0.0022	mg/L	0.00040	0.0022	mg/L	0.00040	18.28%
Sb	206.836†	3.6	0.0010	mg/L	0.00062	0.0010	mg/L	0.00062	62.22%
Se	196.026†	-11.1	-0.0042	mg/L	0.00223	-0.0042	mg/L	0.00223	52.64%
Sn	189.927†	-4.8	-0.0007	mg/L	0.00084	-0.0007	mg/L	0.00084	119.58%
Ti	337.279†	3.0	0.0002	mg/L	0.00031	0.0002	mg/L	0.00031	180.90%
Tl	351.924†	5.2	0.0012	mg/L	0.01071	0.0012	mg/L	0.01071	879.69%
V	290.880†	81.4	0.0010	mg/L	0.00015	0.0010	mg/L	0.00015	14.15%
Zn	206.200†	54.8	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009	6.49%
Zr	343.823†	85.4	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	15.92%

Mean Data: SEQ-CCV

Analyte		Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial		152372.3	102 %	0.72			0.71%
Y axial		3114633.0	98.8 %	0.96			0.97%
Ag 328.068†		180555.2	2.101 mg/L	0.0742	2.101 mg/L	0.0742	3.53%
	QC value	less than the lower limit for Ag 328.068		Recovery = 84.04%			
Al 396.153†		42222.5	9.649 mg/L	0.0076	9.649 mg/L	0.0076	0.08%
	QC value	within limits for Al 396.153		Recovery = 96.49%			
As 188.979†		9497.8	5.021 mg/L	0.1502	5.021 mg/L	0.1502	2.99%
	QC value	within limits for As 188.979		Recovery = 100.42%			
B 208.889†		58727.8	4.589 mg/L	0.1325	4.589 mg/L	0.1325	2.89%
	QC value	within limits for B 208.889		Recovery = 91.78%			
Ba 233.527†		522709.3	5.120 mg/L	0.0081	5.120 mg/L	0.0081	0.16%
	QC value	within limits for Ba 233.527		Recovery = 102.40%			
Be 313.107†		825909.7	4.965 mg/L	0.0102	4.965 mg/L	0.0102	0.21%
	QC value	within limits for Be 313.107		Recovery = 99.31%			
Ca 317.933†		48101.3	9.994 mg/L	0.0178	9.994 mg/L	0.0178	0.18%
	QC value	within limits for Ca 317.933		Recovery = 99.94%			
Cd 228.802†		235102.4	5.061 mg/L	0.0129	5.061 mg/L	0.0129	0.26%
	QC value	within limits for Cd 228.802		Recovery = 101.22%			
Co 228.616†		237312.1	5.012 mg/L	0.0108	5.012 mg/L	0.0108	0.21%
	QC value	within limits for Co 228.616		Recovery = 100.24%			
Cr 267.716†		376991.3	5.070 mg/L	0.0058	5.070 mg/L	0.0058	0.11%
	QC value	within limits for Cr 267.716		Recovery = 101.39%			
Cu 327.393†		782533.2	4.973 mg/L	0.0118	4.973 mg/L	0.0118	0.24%
	QC value	within limits for Cu 327.393		Recovery = 99.45%			
Fe 238.204†		487.0	4.701 mg/L	0.0559	4.701 mg/L	0.0559	1.19%
	QC value	within limits for Fe 238.204		Recovery = 94.01%			
K 766.490†		15553.1	10.03 mg/L	0.061	10.03 mg/L	0.061	0.61%
	QC value	within limits for K 766.490		Recovery = 100.26%			
Mg 285.213†		94704.5	9.938 mg/L	0.0263	9.938 mg/L	0.0263	0.27%
	QC value	within limits for Mg 285.213		Recovery = 99.38%			
Mn 257.610†		29601.2	5.015 mg/L	0.0087	5.015 mg/L	0.0087	0.17%
	QC value	within limits for Mn 257.610		Recovery = 100.30%			
Mo 202.031†		115605.9	5.050 mg/L	0.0092	5.050 mg/L	0.0092	0.18%
	QC value	within limits for Mo 202.031		Recovery = 100.99%			

Na 589.592†	63690.2	10.06 mg/L	0.027	10.06 mg/L	0.027	0.27%
QC value within limits for Na 589.592	Recovery = 100.58%					
Ni 231.604†	235981.0	5.067 mg/L	0.0114	5.067 mg/L	0.0114	0.22%
QC value within limits for Ni 231.604	Recovery = 101.34%					
Pb 220.353†	35501.2	5.042 mg/L	0.1230	5.042 mg/L	0.1230	2.44%
QC value within limits for Pb 220.353	Recovery = 100.83%					
Sb 206.836†	18238.8	4.919 mg/L	0.1316	4.919 mg/L	0.1316	2.68%
QC value within limits for Sb 206.836	Recovery = 98.38%					
Se 196.026†	12988.5	4.950 mg/L	0.1378	4.950 mg/L	0.1378	2.78%
QC value within limits for Se 196.026	Recovery = 98.99%					
Sn 189.927†	34709.1	5.121 mg/L	0.1453	5.121 mg/L	0.1453	2.84%
QC value within limits for Sn 189.927	Recovery = 102.42%					
Ti 337.279†	87901.6	4.957 mg/L	0.0062	4.957 mg/L	0.0062	0.12%
QC value within limits for Ti 337.279	Recovery = 99.14%					
Tl 351.924†	13624.3	3.169 mg/L	0.0830	3.169 mg/L	0.0830	2.62%
QC value greater than the upper limit for Tl 351.924	Recovery = 126.75%					
V 290.880†	419742.9	5.425 mg/L	0.0042	5.425 mg/L	0.0042	0.08%
QC value within limits for V 290.880	Recovery = 108.50%					
Zn 206.200†	214341.0	5.303 mg/L	0.0094	5.303 mg/L	0.0094	0.18%
QC value within limits for Zn 206.200	Recovery = 106.06%					
Zr 343.823†	1420828.8	5.065 mg/L	0.0062	5.065 mg/L	0.0062	0.12%
QC Failed. Continue with analysis.						

Sequence No.: 26

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 1:47:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150615.8	100 %	1.30			1.30%
Y axial	3249401.2	103 %	1.45			1.41%
Ag 328.068†	407.2	0.0048 mg/L	0.00107	0.0048 mg/L	0.00107	22.41%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	16.5	0.0038 mg/L	0.00388	0.0038 mg/L	0.00388	101.57%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	-2.9	-0.0015 mg/L	0.00179	-0.0015 mg/L	0.00179	118.26%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	238.5	0.0197 mg/L	0.00118	0.0197 mg/L	0.00118	6.03%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	15.7	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	71.31%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	67.9	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	27.29%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	21.5	0.0045 mg/L	0.00288	0.0045 mg/L	0.00288	64.45%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	3.7	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	106.28%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	11.8	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	40.72%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	29.6	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	12.70%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	148.4	0.0009 mg/L	0.00025	0.0009 mg/L	0.00025	27.07%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	1.4	0.0132 mg/L	0.00948	0.0132 mg/L	0.00948	71.60%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	21.6	0.0140 mg/L	0.03056	0.0140 mg/L	0.03056	219.00%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	16.5	0.0018 mg/L	0.00073	0.0018 mg/L	0.00073	41.69%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	3.7	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	10.10%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	20.2	0.0009 mg/L	0.00015	0.0009 mg/L	0.00015	16.88%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	54.7	0.0086 mg/L	0.00784	0.0086 mg/L	0.00784	90.80%

QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† 5.7 0.0001 mg/L 0.00034 0.0001 mg/L 0.00034 286.09%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 19.9 0.0028 mg/L 0.00234 0.0028 mg/L 0.00234 83.15%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 4.6 0.0012 mg/L 0.00366 0.0012 mg/L 0.00366 292.92%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 3.5 0.0013 mg/L 0.00310 0.0013 mg/L 0.00310 233.00%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 0.1 0.0000 mg/L 0.00027 0.0000 mg/L 0.00027 >999.9%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 5.5 0.0003 mg/L 0.00029 0.0003 mg/L 0.00029 91.60%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 35.9 0.0084 mg/L 0.01539 0.0084 mg/L 0.01539 182.55%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 68.0 0.0009 mg/L 0.00009 0.0009 mg/L 0.00009 10.21%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 52.3 0.0013 mg/L 0.00006 0.0013 mg/L 0.00006 4.53%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 71.5 0.0003 mg/L 0.00005 0.0003 mg/L 0.00005 19.44%
 All analyte(s) passed QC.

Sequence No.: 27

Sample ID: B336578-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 48

Date Collected: 4/11/2023 1:53:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336578-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155728.2	104	%	1.28			1.23%
Y axial	3236928.4	103	%	0.60			0.58%
Ag 328.068†	31222.1	0.3664	mg/L	0.00299	0.3664 mg/L	0.00299	0.82%
Al 396.153†	2101.2	0.4749	mg/L	0.00529	0.4749 mg/L	0.00529	1.11%
As 188.979†	910.4	0.4818	mg/L	0.00667	0.4818 mg/L	0.00667	1.38%
B 208.889†	11713.3	0.9419	mg/L	0.00802	0.9419 mg/L	0.00802	0.85%
Ba 233.527†	52511.5	0.5143	mg/L	0.00427	0.5143 mg/L	0.00427	0.83%
Be 313.107†	82635.5	0.4964	mg/L	0.00186	0.4964 mg/L	0.00186	0.37%
Ca 317.933†	18636.5	3.872	mg/L	0.0132	3.872 mg/L	0.0132	0.34%
Cd 228.802†	23560.3	0.5073	mg/L	0.00336	0.5073 mg/L	0.00336	0.66%
Co 228.616†	23673.0	0.5000	mg/L	0.00473	0.5000 mg/L	0.00473	0.95%
Cr 267.716†	37479.0	0.5040	mg/L	0.00423	0.5040 mg/L	0.00423	0.84%
Cu 327.393†	150541.8	0.9542	mg/L	0.00786	0.9542 mg/L	0.00786	0.82%
Fe 238.204†	385.5	3.704	mg/L	0.0353	3.704 mg/L	0.0353	0.95%
K 766.490†	5949.1	3.835	mg/L	0.0329	3.835 mg/L	0.0329	0.86%
Mg 285.213†	35616.6	3.779	mg/L	0.0196	3.779 mg/L	0.0196	0.52%
Mn 257.610†	2900.9	0.4914	mg/L	0.00551	0.4914 mg/L	0.00551	1.12%
Mo 202.031†	11437.7	0.4996	mg/L	0.00387	0.4996 mg/L	0.00387	0.77%
Na 589.592†	24840.1	3.923	mg/L	0.0315	3.923 mg/L	0.0315	0.80%
Ni 231.604†	23793.2	0.5107	mg/L	0.00474	0.5107 mg/L	0.00474	0.93%
Pb 220.353†	3631.5	0.5151	mg/L	0.00292	0.5151 mg/L	0.00292	0.57%
Sb 206.836†	1824.0	0.4918	mg/L	0.00349	0.4918 mg/L	0.00349	0.71%
Se 196.026†	1337.5	0.5097	mg/L	0.00426	0.5097 mg/L	0.00426	0.84%
Sn 189.927†	3509.7	0.5177	mg/L	0.00420	0.5177 mg/L	0.00420	0.81%
Ti 337.279†	8675.7	0.4895	mg/L	0.00295	0.4895 mg/L	0.00295	0.60%
Tl 351.924†	2631.7	0.6170	mg/L	0.00527	0.6170 mg/L	0.00527	0.85%
V 290.880†	42239.3	0.5444	mg/L	0.00382	0.5444 mg/L	0.00382	0.70%
Zn 206.200†	43169.9	1.066	mg/L	0.0067	1.066 mg/L	0.0067	0.62%
Zr 343.823†	297.2	0.0010	mg/L	0.00005	0.0010 mg/L	0.00005	5.22%

Sequence No.: 28

Sample ID: B336578-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 4/11/2023 2:00:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336578-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156931.9	105 %		1.62			1.54%
Y axial	3392114.1	108 %		1.04			0.97%
Ag 328.068†	31631.0	0.3712 mg/L		0.01329	0.3712 mg/L	0.01329	3.58%
Al 396.153†	2055.4	0.4650 mg/L		0.00164	0.4650 mg/L	0.00164	0.35%
As 188.979†	865.5	0.4581 mg/L		0.00570	0.4581 mg/L	0.00570	1.24%
B 208.889†	11152.4	0.8969 mg/L		0.01104	0.8969 mg/L	0.01104	1.23%
Ba 233.527†	49695.0	0.4867 mg/L		0.01086	0.4867 mg/L	0.01086	2.23%
Be 313.107†	79966.9	0.4804 mg/L		0.00577	0.4804 mg/L	0.00577	1.20%
Ca 317.933†	17979.9	3.736 mg/L		0.0529	3.736 mg/L	0.0529	1.42%
Cd 228.802†	22281.6	0.4798 mg/L		0.01076	0.4798 mg/L	0.01076	2.24%
Co 228.616†	22426.4	0.4736 mg/L		0.00834	0.4736 mg/L	0.00834	1.76%
Cr 267.716†	35470.5	0.4770 mg/L		0.00909	0.4770 mg/L	0.00909	1.91%
Cu 327.393†	142791.5	0.9050 mg/L		0.01814	0.9050 mg/L	0.01814	2.00%
Fe 238.204†	385.9	3.708 mg/L		0.0697	3.708 mg/L	0.0697	1.88%
K 766.490†	5750.2	3.707 mg/L		0.0655	3.707 mg/L	0.0655	1.77%
Mg 285.213†	34457.3	3.656 mg/L		0.0461	3.656 mg/L	0.0461	1.26%
Mn 257.610†	2864.6	0.4853 mg/L		0.00786	0.4853 mg/L	0.00786	1.62%
Mo 202.031†	10864.0	0.4745 mg/L		0.00548	0.4745 mg/L	0.00548	1.15%
Na 589.592†	24060.8	3.800 mg/L		0.0387	3.800 mg/L	0.0387	1.02%
Ni 231.604†	22453.8	0.4819 mg/L		0.00871	0.4819 mg/L	0.00871	1.81%
Pb 220.353†	3441.8	0.4882 mg/L		0.00547	0.4882 mg/L	0.00547	1.12%
Sb 206.836†	1725.2	0.4651 mg/L		0.00653	0.4651 mg/L	0.00653	1.40%
Se 196.026†	1262.4	0.4811 mg/L		0.00798	0.4811 mg/L	0.00798	1.66%
Sn 189.927†	3314.8	0.4891 mg/L		0.00572	0.4891 mg/L	0.00572	1.17%
Ti 337.279†	8401.6	0.4740 mg/L		0.00724	0.4740 mg/L	0.00724	1.53%
Tl 351.924†	2505.8	0.5876 mg/L		0.01046	0.5876 mg/L	0.01046	1.78%
V 290.880†	39550.3	0.5099 mg/L		0.01127	0.5099 mg/L	0.01127	2.21%
Zn 206.200†	40553.4	1.001 mg/L		0.0203	1.001 mg/L	0.0203	2.03%
Zr 343.823†	121.0	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	18.59%

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Sequence No.: 29

Sample ID: B336578-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 50

Date Collected: 4/11/2023 2:08:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336578-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151555.3	101 %		0.54			0.54%
Y axial	3108566.5	98.6 %		0.81			0.82%
Ag 328.068†	32173.6	0.3776 mg/L		0.00951	0.3776 mg/L	0.00951	2.52%
Al 396.153†	2207.5	0.4996 mg/L		0.00601	0.4996 mg/L	0.00601	1.20%
As 188.979†	941.3	0.4983 mg/L		0.00388	0.4983 mg/L	0.00388	0.78%
B 208.889†	29247.7	2.391 mg/L		0.0054	2.391 mg/L	0.0054	0.22%
Ba 233.527†	61993.2	0.6071 mg/L		0.00206	0.6071 mg/L	0.00206	0.34%
Be 313.107†	82494.2	0.4956 mg/L		0.00200	0.4956 mg/L	0.00200	0.40%
Ca 317.933†	87521.7	18.18 mg/L		0.057	18.18 mg/L	0.057	0.31%
Cd 228.802†	23863.9	0.5137 mg/L		0.00124	0.5137 mg/L	0.00124	0.24%
Co 228.616†	23184.4	0.4896 mg/L		0.00193	0.4896 mg/L	0.00193	0.39%
Cr 267.716†	39279.3	0.5282 mg/L		0.00133	0.5282 mg/L	0.00133	0.25%
Cu 327.393†	167886.5	1.064 mg/L		0.0033	1.064 mg/L	0.0033	0.31%
Fe 238.204†	400.5	3.816 mg/L		0.0228	3.816 mg/L	0.0228	0.60%
K 766.490†	17841.3	11.50 mg/L		0.018	11.50 mg/L	0.018	0.16%
Mg 285.213†	41409.0	4.394 mg/L		0.0302	4.394 mg/L	0.0302	0.69%
Mn 257.610†	2944.4	0.4988 mg/L		0.00211	0.4988 mg/L	0.00211	0.42%
Mo 202.031†	11501.1	0.5024 mg/L		0.00355	0.5024 mg/L	0.00355	0.71%
Na 589.592†	2072645.1	327.3 mg/L		0.78	327.3 mg/L	0.78	0.24%
Ni 231.604†	24715.4	0.5305 mg/L		0.00265	0.5305 mg/L	0.00265	0.50%
Pb 220.353†	3482.4	0.4941 mg/L		0.00266	0.4941 mg/L	0.00266	0.54%
Sb 206.836†	1929.4	0.5203 mg/L		0.00359	0.5203 mg/L	0.00359	0.69%

Se 196.026†	1351.7	0.5151 mg/L	0.00305	0.5151 mg/L	0.00305	0.59%
Sn 189.927†	3532.5	0.5211 mg/L	0.00360	0.5211 mg/L	0.00360	0.69%
Ti 337.279†	8745.6	0.4935 mg/L	0.00517	0.4935 mg/L	0.00517	1.05%
Tl 351.924†	2641.5	0.6194 mg/L	0.00649	0.6194 mg/L	0.00649	1.05%
V 290.880†	41931.8	0.5404 mg/L	0.00419	0.5404 mg/L	0.00419	0.78%
Zn 206.200†	44760.3	1.105 mg/L	0.0045	1.105 mg/L	0.0045	0.41%
Zr 343.823†	135.1	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	18.61%

Sequence No.: 30

Sample ID: B336578-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 51

Date Collected: 4/11/2023 2:16:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336578-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151108.6	101 %		0.96			0.95%
Y axial	3078156.9	97.6 %		1.13			1.16%
Ag 328.068†	15.9	0.0002 mg/L		0.00020	0.0002 mg/L	0.00020	105.77%
Al 396.153†	64.0	0.0149 mg/L		0.00449	0.0149 mg/L	0.00449	30.22%
As 188.979†	-3.7	-0.0016 mg/L		0.00486	-0.0016 mg/L	0.00486	312.40%
B 208.889†	17879.9	1.478 mg/L		0.0217	1.478 mg/L	0.0217	1.47%
Ba 233.527†	10557.5	0.1033 mg/L		0.00132	0.1033 mg/L	0.00132	1.28%
Be 313.107†	1.7	0.0000 mg/L		0.00010	0.0000 mg/L	0.00010	>999.9%
Ca 317.933†	69358.6	14.41 mg/L		0.254	14.41 mg/L	0.254	1.76%
Cd 228.802†	-1.0	-0.0000 mg/L		0.00011	-0.0000 mg/L	0.00011	995.24%
Co 228.616†	9.0	0.0001 mg/L		0.00007	0.0001 mg/L	0.00007	57.74%
Cr 267.716†	2653.1	0.0357 mg/L		0.00064	0.0357 mg/L	0.00064	1.78%
Cu 327.393†	11088.8	0.0702 mg/L		0.00150	0.0702 mg/L	0.00150	2.13%
Fe 238.204†	2.9	-0.0044 mg/L		0.00335	-0.0044 mg/L	0.00335	76.30%
K 766.490†	11431.6	7.369 mg/L		0.1153	7.369 mg/L	0.1153	1.56%
Mg 285.213†	5991.8	0.6356 mg/L		0.00861	0.6356 mg/L	0.00861	1.35%
Mn 257.610†	-2.5	-0.0004 mg/L		0.00035	-0.0004 mg/L	0.00035	82.83%
Mo 202.031†	39.4	0.0017 mg/L		0.00022	0.0017 mg/L	0.00022	12.70%
Na 589.592†	2021343.2	319.2 mg/L		0.24	319.2 mg/L	0.24	0.07%
Ni 231.604†	1519.5	0.0326 mg/L		0.00021	0.0326 mg/L	0.00021	0.64%
Pb 220.353†	14.2	0.0021 mg/L		0.00018	0.0021 mg/L	0.00018	8.26%
Sb 206.836†	113.1	0.0304 mg/L		0.00143	0.0304 mg/L	0.00143	4.69%
Se 196.026†	-8.1	-0.0031 mg/L		0.00501	-0.0031 mg/L	0.00501	162.46%
Sn 189.927†	31.8	0.0047 mg/L		0.00030	0.0047 mg/L	0.00030	6.36%
Ti 337.279†	-1.9	-0.0001 mg/L		0.00054	-0.0001 mg/L	0.00054	496.05%
Tl 351.924†	4.7	0.0011 mg/L		0.00407	0.0011 mg/L	0.00407	366.32%
V 290.880†	217.6	0.0026 mg/L		0.00021	0.0026 mg/L	0.00021	8.04%
Zn 206.200†	55.0	0.0012 mg/L		0.00028	0.0012 mg/L	0.00028	22.50%
Zr 343.823†	23.3	0.0001 mg/L		0.00026	0.0001 mg/L	0.00026	316.73%

Sequence No.: 31

Sample ID: 23D0685-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 52

Date Collected: 4/11/2023 2:24:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23D0685-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156080.2	104 %		0.83			0.80%
Y axial	3143433.5	99.7 %		1.74			1.74%
Ag 328.068†	21.3	0.0002 mg/L		0.00021	0.0002 mg/L	0.00021	83.53%
Al 396.153†	87.4	0.0203 mg/L		0.00291	0.0203 mg/L	0.00291	14.33%
As 188.979†	7.1	0.0041 mg/L		0.00312	0.0041 mg/L	0.00312	76.99%
B 208.889†	17690.9	1.462 mg/L		0.0189	1.462 mg/L	0.0189	1.29%
Ba 233.527†	10457.8	0.1023 mg/L		0.00154	0.1023 mg/L	0.00154	1.50%
Be 313.107†	-45.3	-0.0003 mg/L		0.00003	-0.0003 mg/L	0.00003	9.23%

Ca 317.933†	67463.7	14.02 mg/L	0.021	14.02 mg/L	0.021	0.15%
Cd 228.802†	-3.2	-0.0001 mg/L	0.00009	-0.0001 mg/L	0.00009	98.57%
Co 228.616†	14.3	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	62.59%
Cr 267.716†	2604.9	0.0350 mg/L	0.00079	0.0350 mg/L	0.00079	2.26%
Cu 327.393†	10986.7	0.0696 mg/L	0.00114	0.0696 mg/L	0.00114	1.64%
Fe 238.204†	1.1	-0.0209 mg/L	0.00926	-0.0209 mg/L	0.00926	44.37%
K 766.490†	11134.2	7.177 mg/L	0.0482	7.177 mg/L	0.0482	0.67%
Mg 285.213†	5808.3	0.6161 mg/L	0.00272	0.6161 mg/L	0.00272	0.44%
Mn 257.610†	1.3	0.0002 mg/L	0.00048	0.0002 mg/L	0.00048	223.22%
Mo 202.031†	42.8	0.0019 mg/L	0.00025	0.0019 mg/L	0.00025	13.38%
Na 589.592†	1974404.2	311.8 mg/L	4.67	311.8 mg/L	4.67	1.50%
Ni 231.604†	1488.0	0.0320 mg/L	0.00047	0.0320 mg/L	0.00047	1.47%
Pb 220.353†	0.0	0.0001 mg/L	0.00083	0.0001 mg/L	0.00083	702.42%
Sb 206.836†	104.2	0.0279 mg/L	0.00300	0.0279 mg/L	0.00300	10.75%
Se 196.026†	-1.3	-0.0005 mg/L	0.00236	-0.0005 mg/L	0.00236	483.38%
Sn 189.927†	24.2	0.0036 mg/L	0.00120	0.0036 mg/L	0.00120	33.75%
Ti 337.279†	-1.1	-0.0001 mg/L	0.00042	-0.0001 mg/L	0.00042	671.18%
Tl 351.924†	2.9	0.0007 mg/L	0.00935	0.0007 mg/L	0.00935	>999.9%
V 290.880†	173.7	0.0020 mg/L	0.00039	0.0020 mg/L	0.00039	19.06%
Zn 206.200†	74.2	0.0017 mg/L	0.00037	0.0017 mg/L	0.00037	21.73%
Zr 343.823†	33.6	0.0001 mg/L	0.00015	0.0001 mg/L	0.00015	126.28%

User canceled analysis.

Sequence No.: 1
 Sample ID: SEQ-ICV @2211094
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):
 User canceled analysis.

Autosampler Location: 8
 Date Collected: 4/11/2023 2:31:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sequence No.: 32
 Sample ID: 23D0580-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):

Autosampler Location: 53
 Date Collected: 4/11/2023 2:34:45 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: 23D0580-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157578.5	105 %		1.32			1.26%
Y axial	3249554.4	103 %		0.75			0.73%
Ag 328.068†	43.6	0.0005 mg/L		0.00023	0.0005 mg/L	0.00023	45.51%
Al 396.153†	579.6	0.1351 mg/L		0.00654	0.1351 mg/L	0.00654	4.84%
As 188.979†	-0.3	-0.0001 mg/L		0.00331	-0.0001 mg/L	0.00331	>999.9%
B 208.889†	1664.4	0.1376 mg/L		0.00173	0.1376 mg/L	0.00173	1.26%
Ba 233.527†	1898.3	0.0186 mg/L		0.00023	0.0186 mg/L	0.00023	1.23%
Be 313.107†	-44.1	-0.0003 mg/L		0.00009	-0.0003 mg/L	0.00009	30.33%
Ca 317.933†	82815.3	17.21 mg/L		0.292	17.21 mg/L	0.292	1.70%
Cd 228.802†	3.7	0.0001 mg/L		0.00006	0.0001 mg/L	0.00006	71.13%
Co 228.616†	25.6	0.0005 mg/L		0.00010	0.0005 mg/L	0.00010	18.48%
Cr 267.716†	30.2	0.0004 mg/L		0.00017	0.0004 mg/L	0.00017	42.20%
Cu 327.393†	3942.1	0.0250 mg/L		0.00030	0.0250 mg/L	0.00030	1.20%
Fe 238.204†	41.2	0.3813 mg/L		0.01005	0.3813 mg/L	0.01005	2.64%
K 766.490†	15838.4	10.21 mg/L		0.169	10.21 mg/L	0.169	1.66%
Mg 285.213†	42864.6	4.547 mg/L		0.0739	4.547 mg/L	0.0739	1.63%
Mn 257.610†	673.6	0.1141 mg/L		0.00219	0.1141 mg/L	0.00219	1.92%
Mo 202.031†	5.2	0.0002 mg/L		0.00032	0.0002 mg/L	0.00032	141.01%
Na 589.592†	569641.2	89.95 mg/L		0.516	89.95 mg/L	0.516	0.57%
Ni 231.604†	78.4	0.0017 mg/L		0.00017	0.0017 mg/L	0.00017	10.13%
Pb 220.353†	15.3	0.0023 mg/L		0.00085	0.0023 mg/L	0.00085	36.78%
Sb 206.836†	8.0	0.0022 mg/L		0.00087	0.0022 mg/L	0.00087	40.19%
Se 196.026†	5.0	0.0019 mg/L		0.00105	0.0019 mg/L	0.00105	55.23%
Sn 189.927†	55.8	0.0082 mg/L		0.00122	0.0082 mg/L	0.00122	14.84%
Ti 337.279†	68.5	0.0039 mg/L		0.00060	0.0039 mg/L	0.00060	15.50%
Tl 351.924†	5.5	0.0015 mg/L		0.00340	0.0015 mg/L	0.00340	221.24%
V 290.880†	729.3	0.0077 mg/L		0.00019	0.0077 mg/L	0.00019	2.45%
Zn 206.200†	2115.5	0.0518 mg/L		0.00033	0.0518 mg/L	0.00033	0.65%
Zr 343.823†	162.5	0.0006 mg/L		0.00013	0.0006 mg/L	0.00013	22.43%

Sequence No.: 33
 Sample ID: 23D0580-02
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 220

Autosampler Location: 54
 Date Collected: 4/11/2023 2:42:33 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Mean Data: 23D0580-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156572.7	104 %		0.11			0.11%
Y axial	3229466.3	102 %		1.03			1.00%
Ag 328.068†	23.3	0.0003 mg/L		0.00026	0.0003 mg/L	0.00026	95.96%
Al 396.153†	975.9	0.2275 mg/L		0.00219	0.2275 mg/L	0.00219	0.96%
As 188.979†	3.4	0.0019 mg/L		0.00069	0.0019 mg/L	0.00069	35.71%
B 208.889†	2020.3	0.1670 mg/L		0.00185	0.1670 mg/L	0.00185	1.11%

Ba 233.527†	5204.1	0.0509 mg/L	0.00036	0.0509 mg/L	0.00036	0.71%
Be 313.107†	-49.2	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	9.22%
Ca 317.933†	81784.5	16.99 mg/L	0.093	16.99 mg/L	0.093	0.55%
Cd 228.802†	11.7	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	46.18%
Co 228.616†	34.0	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	17.37%
Cr 267.716†	78.1	0.0010 mg/L	0.00012	0.0010 mg/L	0.00012	10.99%
Cu 327.393†	9201.7	0.0583 mg/L	0.00083	0.0583 mg/L	0.00083	1.42%
Fe 238.204†	92.5	0.8743 mg/L	0.00303	0.8743 mg/L	0.00303	0.35%
K 766.490†	16966.0	10.94 mg/L	0.076	10.94 mg/L	0.076	0.69%
Mg 285.213†	45257.9	4.801 mg/L	0.0270	4.801 mg/L	0.0270	0.56%
Mn 257.610†	630.8	0.1069 mg/L	0.00127	0.1069 mg/L	0.00127	1.18%
Mo 202.031†	9.6	0.0004 mg/L	0.00039	0.0004 mg/L	0.00039	92.31%
Na 589.592†	518469.8	81.87 mg/L	0.358	81.87 mg/L	0.358	0.44%
Ni 231.604†	105.6	0.0023 mg/L	0.00022	0.0023 mg/L	0.00022	9.52%
Pb 220.353†	24.2	0.0035 mg/L	0.00127	0.0035 mg/L	0.00127	35.92%
Sb 206.836†	13.4	0.0036 mg/L	0.00132	0.0036 mg/L	0.00132	36.72%
Se 196.026†	-1.3	-0.0005 mg/L	0.00394	-0.0005 mg/L	0.00394	803.02%
Sn 189.927†	71.8	0.0106 mg/L	0.00133	0.0106 mg/L	0.00133	12.53%
Ti 337.279†	183.9	0.0104 mg/L	0.00054	0.0104 mg/L	0.00054	5.17%
Tl 351.924†	11.9	0.0034 mg/L	0.01396	0.0034 mg/L	0.01396	416.15%
V 290.880†	814.7	0.0086 mg/L	0.00032	0.0086 mg/L	0.00032	3.67%
Zn 206.200†	4308.6	0.1058 mg/L	0.00085	0.1058 mg/L	0.00085	0.80%
Zr 343.823†	464.4	0.0016 mg/L	0.00022	0.0016 mg/L	0.00022	13.34%

Sequence No.: 34

Sample ID: 23D0687-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 55

Date Collected: 4/11/2023 2:50:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23D0687-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	148667.7	99.2 %		0.77			0.77%
Y axial	3083536.8	97.8 %		0.27			0.28%
Ag 328.068†	-17.8	-0.0003 mg/L		0.00040	-0.0003 mg/L	0.00040	130.96%
Al 396.153†	33833.6	7.889 mg/L		0.0910	7.889 mg/L	0.0910	1.15%
As 188.979†	-17.5	-0.0020 mg/L		0.00169	-0.0020 mg/L	0.00169	82.64%
B 208.889†	400.0	0.0330 mg/L		0.00034	0.0330 mg/L	0.00034	1.04%
Ba 233.527†	1348.2	0.0132 mg/L		0.00006	0.0132 mg/L	0.00006	0.44%
Be 313.107†	2.3	-0.0000 mg/L		0.00009	-0.0000 mg/L	0.00009	>999.9%
Ca 317.933†	14299.8	2.971 mg/L		0.0512	2.971 mg/L	0.0512	1.72%
Cd 228.802†	11.3	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	21.15%
Co 228.616†	55.9	0.0008 mg/L		0.00022	0.0008 mg/L	0.00022	25.68%
Cr 267.716†	48089.4	0.6463 mg/L		0.00381	0.6463 mg/L	0.00381	0.59%
Cu 327.393†	132891.7	0.8419 mg/L		0.00721	0.8419 mg/L	0.00721	0.86%
Fe 238.204†	14.6	0.1169 mg/L		0.00702	0.1169 mg/L	0.00702	6.01%
K 766.490†	7771.2	5.009 mg/L		0.0265	5.009 mg/L	0.0265	0.53%
Mg 285.213†	8229.5	0.8724 mg/L		0.00762	0.8724 mg/L	0.00762	0.87%
Mn 257.610†	7261.9	1.230 mg/L		0.0161	1.230 mg/L	0.0161	1.31%
Mo 202.031†	25.9	0.0011 mg/L		0.00021	0.0011 mg/L	0.00021	18.17%
Na 589.592†	1519806.7	240.0 mg/L		1.31	240.0 mg/L	1.31	0.55%
Ni 231.604†	103.8	0.0022 mg/L		0.00022	0.0022 mg/L	0.00022	10.05%
Pb 220.353†	47.4	0.0069 mg/L		0.00171	0.0069 mg/L	0.00171	24.90%
Sb 206.836†	59.5	0.0016 mg/L		0.00100	0.0016 mg/L	0.00100	60.82%
Se 196.026†	10.7	0.0041 mg/L		0.00404	0.0041 mg/L	0.00404	99.63%
Sn 189.927†	34.2	0.0061 mg/L		0.00266	0.0061 mg/L	0.00266	43.41%
Ti 337.279†	3756.9	0.2120 mg/L		0.00787	0.2120 mg/L	0.00787	3.71%
Tl 351.924†	131.9	0.0302 mg/L		0.00637	0.0302 mg/L	0.00637	21.12%
V 290.880†	1131.8	0.0140 mg/L		0.00075	0.0140 mg/L	0.00075	5.35%
Zn 206.200†	749.1	0.0214 mg/L		0.00098	0.0214 mg/L	0.00098	4.57%
Zr 343.823†	7845.6	0.0280 mg/L		0.00036	0.0280 mg/L	0.00036	1.29%

Sequence No.: 35

Sample ID: RINSE

Analyst:

Autosampler Location: 7

Date Collected: 4/11/2023 2:58:09 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	156709.8	105	%	1.59				1.52%
Y axial	3439542.6	109	%	0.69				0.63%
Ag 328.068†	-13.5	-0.0002	mg/L	0.00049	-0.0002	mg/L	0.00049	307.59%
Al 396.153†	14.0	0.0033	mg/L	0.00694	0.0033	mg/L	0.00694	212.76%
As 188.979†	-2.7	-0.0014	mg/L	0.00285	-0.0014	mg/L	0.00285	199.34%
B 208.889†	95.1	0.0079	mg/L	0.00053	0.0079	mg/L	0.00053	6.71%
Ba 233.527†	9.7	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	122.43%
Be 313.107†	-64.0	-0.0004	mg/L	0.00008	-0.0004	mg/L	0.00008	20.19%
Ca 317.933†	41.3	0.0086	mg/L	0.00437	0.0086	mg/L	0.00437	50.87%
Cd 228.802†	-6.0	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	141.56%
Co 228.616†	7.6	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	79.91%
Cr 267.716†	8.3	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	63.41%
Cu 327.393†	321.4	0.0020	mg/L	0.00013	0.0020	mg/L	0.00013	6.38%
Fe 238.204†	1.8	0.0171	mg/L	0.00720	0.0171	mg/L	0.00720	42.21%
K 766.490†	-56.8	-0.0366	mg/L	0.03159	-0.0366	mg/L	0.03159	86.21%
Mg 285.213†	11.0	0.0012	mg/L	0.00080	0.0012	mg/L	0.00080	68.82%
Mn 257.610†	3.1	0.0005	mg/L	0.00035	0.0005	mg/L	0.00035	66.81%
Mo 202.031†	3.3	0.0001	mg/L	0.00028	0.0001	mg/L	0.00028	193.33%
Na 589.592†	423.0	0.0668	mg/L	0.00340	0.0668	mg/L	0.00340	5.10%
Ni 231.604†	-9.7	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014	68.23%
Pb 220.353†	4.5	0.0006	mg/L	0.00130	0.0006	mg/L	0.00130	206.22%
Sb 206.836†	1.6	0.0004	mg/L	0.00109	0.0004	mg/L	0.00109	257.10%
Se 196.026†	-4.8	-0.0018	mg/L	0.00164	-0.0018	mg/L	0.00164	89.68%
Sn 189.927†	-5.4	-0.0008	mg/L	0.00055	-0.0008	mg/L	0.00055	69.55%
Ti 337.279†	5.2	0.0003	mg/L	0.00042	0.0003	mg/L	0.00042	144.47%
Tl 351.924†	-0.3	-0.0001	mg/L	0.00489	-0.0001	mg/L	0.00489	>999.9%
V 290.880†	-70.8	-0.0009	mg/L	0.00016	-0.0009	mg/L	0.00016	18.39%
Zn 206.200†	26.7	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	25.12%
Zr 343.823†	69.0	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.87%

Sequence No.: 36

Autosampler Location: 56

Sample ID: B335766-BLK1

Date Collected: 4/11/2023 3:03:59 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 110

Mean Data: B335766-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	157509.4	105	%	1.17				1.11%
Y axial	3348718.8	106	%	0.61				0.57%
Ag 328.068†	13.5	0.0002	mg/L	0.00053	0.0002	mg/L	0.00053	332.67%
Al 396.153†	-7.0	-0.0016	mg/L	0.00280	-0.0016	mg/L	0.00280	170.98%
As 188.979†	0.5	0.0003	mg/L	0.00502	0.0003	mg/L	0.00502	>999.9%
B 208.889†	58.2	0.0048	mg/L	0.00022	0.0048	mg/L	0.00022	4.57%
Ba 233.527†	10.7	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	19.37%
Be 313.107†	-57.5	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	4.87%
Ca 317.933†	56.0	0.0116	mg/L	0.00429	0.0116	mg/L	0.00429	36.91%
Cd 228.802†	-3.5	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	159.81%
Co 228.616†	10.3	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	62.83%
Cr 267.716†	-8.2	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	53.19%
Cu 327.393†	120.7	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	33.89%
Fe 238.204†	-0.0	-0.0003	mg/L	0.01335	-0.0003	mg/L	0.01335	>999.9%
K 766.490†	27.3	0.0176	mg/L	0.02354	0.0176	mg/L	0.02354	133.60%
Mg 285.213†	14.6	0.0015	mg/L	0.00020	0.0015	mg/L	0.00020	12.63%
Mn 257.610†	1.6	0.0003	mg/L	0.00067	0.0003	mg/L	0.00067	242.32%
Mo 202.031†	-3.5	-0.0002	mg/L	0.00017	-0.0002	mg/L	0.00017	108.37%
Na 589.592†	270.4	0.0427	mg/L	0.00824	0.0427	mg/L	0.00824	19.30%
Ni 231.604†	0.2	-0.0000	mg/L	0.00017	-0.0000	mg/L	0.00017	>999.9%

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157119.9	105 %	1.55			1.48%
Y axial	3273479.0	104 %	1.20			1.16%
Ag 328.068†	171880.1	2.000 mg/L	0.0457	2.000 mg/L	0.0457	2.29%
QC value less than the lower limit for Ag 328.068			Recovery = 79.99%			
Al 396.153†	41563.5	9.500 mg/L	0.0273	9.500 mg/L	0.0273	0.29%
QC value within limits for Al 396.153			Recovery = 95.00%			

As 188.979†	9447.1	4.994 mg/L	0.1464	4.994 mg/L	0.1464	2.93%
QC value within limits for As 188.979 Recovery = 99.87%						
B 208.889†	58390.3	4.566 mg/L	0.1324	4.566 mg/L	0.1324	2.90%
QC value within limits for B 208.889 Recovery = 91.33%						
Ba 233.527†	512063.4	5.015 mg/L	0.0107	5.015 mg/L	0.0107	0.21%
QC value within limits for Ba 233.527 Recovery = 100.31%						
Be 313.107†	805679.4	4.844 mg/L	0.0046	4.844 mg/L	0.0046	0.10%
QC value within limits for Be 313.107 Recovery = 96.88%						
Ca 317.933†	47164.6	9.799 mg/L	0.0232	9.799 mg/L	0.0232	0.24%
QC value within limits for Ca 317.933 Recovery = 97.99%						
Cd 228.802†	229741.7	4.945 mg/L	0.0162	4.945 mg/L	0.0162	0.33%
QC value within limits for Cd 228.802 Recovery = 98.91%						
Co 228.616†	235293.6	4.969 mg/L	0.0107	4.969 mg/L	0.0107	0.22%
QC value within limits for Co 228.616 Recovery = 99.39%						
Cr 267.716†	370674.5	4.985 mg/L	0.0076	4.985 mg/L	0.0076	0.15%
QC value within limits for Cr 267.716 Recovery = 99.69%						
Cu 327.393†	758613.6	4.821 mg/L	0.0097	4.821 mg/L	0.0097	0.20%
QC value within limits for Cu 327.393 Recovery = 96.41%						
Fe 238.204†	482.1	4.653 mg/L	0.0601	4.653 mg/L	0.0601	1.29%
QC value within limits for Fe 238.204 Recovery = 93.06%						
K 766.490†	15204.6	9.801 mg/L	0.0428	9.801 mg/L	0.0428	0.44%
QC value within limits for K 766.490 Recovery = 98.01%						
Mg 285.213†	92474.8	9.704 mg/L	0.0334	9.704 mg/L	0.0334	0.34%
QC value within limits for Mg 285.213 Recovery = 97.04%						
Mn 257.610†	28848.5	4.887 mg/L	0.0104	4.887 mg/L	0.0104	0.21%
QC value within limits for Mn 257.610 Recovery = 97.75%						
Mo 202.031†	113382.7	4.953 mg/L	0.0131	4.953 mg/L	0.0131	0.26%
QC value within limits for Mo 202.031 Recovery = 99.05%						
Na 589.592†	62335.6	9.844 mg/L	0.0364	9.844 mg/L	0.0364	0.37%
QC value within limits for Na 589.592 Recovery = 98.44%						
Ni 231.604†	232232.2	4.986 mg/L	0.0104	4.986 mg/L	0.0104	0.21%
QC value within limits for Ni 231.604 Recovery = 99.73%						
Pb 220.353†	35714.8	5.071 mg/L	0.1222	5.071 mg/L	0.1222	2.41%
QC value within limits for Pb 220.353 Recovery = 101.43%						
Sb 206.836†	17955.3	4.842 mg/L	0.1194	4.842 mg/L	0.1194	2.47%
QC value within limits for Sb 206.836 Recovery = 96.84%						
Se 196.026†	12982.7	4.948 mg/L	0.1404	4.948 mg/L	0.1404	2.84%
QC value within limits for Se 196.026 Recovery = 98.95%						
Sn 189.927†	34581.9	5.102 mg/L	0.1287	5.102 mg/L	0.1287	2.52%
QC value within limits for Sn 189.927 Recovery = 102.03%						
Ti 337.279†	86241.0	4.864 mg/L	0.0103	4.864 mg/L	0.0103	0.21%
QC value within limits for Ti 337.279 Recovery = 97.27%						
Tl 351.924†	13541.0	3.150 mg/L	0.0928	3.150 mg/L	0.0928	2.94%
QC value greater than the upper limit for Tl 351.924 Recovery = 126.02%						
V 290.880†	395568.4	5.117 mg/L	0.0144	5.117 mg/L	0.0144	0.28%
QC value within limits for V 290.880 Recovery = 102.35%						
Zn 206.200†	208904.5	5.168 mg/L	0.0157	5.168 mg/L	0.0157	0.30%
QC value within limits for Zn 206.200 Recovery = 103.37%						
Zr 343.823†	1383609.1	4.933 mg/L	0.0079	4.933 mg/L	0.0079	0.16%
QC Failed. Continue with analysis.						

Sequence No.: 39

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 3:24:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Ag failed; 04/12/23 ATP

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	158523.2	106 %	1.78			1.68%
Y axial	3371985.4	107 %	0.83			0.77%
Ag 328.068†	1004.7	0.0118 mg/L	0.00065	0.0118 mg/L	0.00065	5.53%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-23.4	-0.0055 mg/L	0.00132	-0.0055 mg/L	0.00132	24.15%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	4.1	0.0021 mg/L	0.00018	0.0021 mg/L	0.00018	8.32%

QC value within limits for As 188.979 Recovery = Not calculated
 B 208.889† 265.2 0.0219 mg/L 0.00101 0.0219 mg/L 0.00101 4.63%
 QC value within limits for B 208.889 Recovery = Not calculated
 Ba 233.527† 24.3 0.0002 mg/L 0.00011 0.0002 mg/L 0.00011 46.78%
 QC value within limits for Ba 233.527 Recovery = Not calculated
 Be 313.107† 2.1 0.0000 mg/L 0.00014 0.0000 mg/L 0.00014 896.23%
 QC value within limits for Be 313.107 Recovery = Not calculated
 Ca 317.933† 6.8 0.0014 mg/L 0.00205 0.0014 mg/L 0.00205 144.06%
 QC value within limits for Ca 317.933 Recovery = Not calculated
 Cd 228.802† 6.9 0.0001 mg/L 0.00007 0.0001 mg/L 0.00007 53.39%
 QC value within limits for Cd 228.802 Recovery = Not calculated
 Co 228.616† 13.0 0.0003 mg/L 0.00013 0.0003 mg/L 0.00013 47.66%
 QC value within limits for Co 228.616 Recovery = Not calculated
 Cr 267.716† 4.6 0.0001 mg/L 0.00006 0.0001 mg/L 0.00006 90.46%
 QC value within limits for Cr 267.716 Recovery = Not calculated
 Cu 327.393† 239.2 0.0015 mg/L 0.00029 0.0015 mg/L 0.00029 19.33%
 QC value within limits for Cu 327.393 Recovery = Not calculated
 Fe 238.204† -0.1 -0.0014 mg/L 0.02947 -0.0014 mg/L 0.02947 >999.9%
 QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† -13.9 -0.0090 mg/L 0.05154 -0.0090 mg/L 0.05154 573.61%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 0.6 0.0001 mg/L 0.00060 0.0001 mg/L 0.00060 >999.9%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† 3.2 0.0005 mg/L 0.00065 0.0005 mg/L 0.00065 120.21%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 21.6 0.0009 mg/L 0.00035 0.0009 mg/L 0.00035 37.02%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 179.4 0.0283 mg/L 0.01696 0.0283 mg/L 0.01696 59.84%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† 12.7 0.0003 mg/L 0.00022 0.0003 mg/L 0.00022 82.93%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 16.1 0.0023 mg/L 0.00056 0.0023 mg/L 0.00056 24.74%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 6.5 0.0018 mg/L 0.00119 0.0018 mg/L 0.00119 66.69%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 5.6 0.0021 mg/L 0.00343 0.0021 mg/L 0.00343 160.29%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 2.1 0.0003 mg/L 0.00163 0.0003 mg/L 0.00163 528.02%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 8.6 0.0005 mg/L 0.00046 0.0005 mg/L 0.00046 96.09%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 34.5 0.0081 mg/L 0.00288 0.0081 mg/L 0.00288 35.50%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† -50.0 -0.0006 mg/L 0.00017 -0.0006 mg/L 0.00017 27.87%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 42.5 0.0010 mg/L 0.00033 0.0010 mg/L 0.00033 31.53%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 66.3 0.0002 mg/L 0.00011 0.0002 mg/L 0.00011 45.31%
 QC Failed. Continue with analysis.

Sequence No.: 40
 Sample ID: B335766-BSD1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 110

Autosampler Location: 58
 Date Collected: 4/11/2023 3:30:10 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B335766-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153070.5	102 %	1.32			1.29%
Y axial	3230025.0	102 %	0.70			0.68%
Ag 328.068†	47110.8	0.5528 mg/L	0.00423	0.5528 mg/L	0.00423	0.77%
Al 396.153†	2096.4	0.4739 mg/L	0.00419	0.4739 mg/L	0.00419	0.88%
As 188.979†	906.4	0.4797 mg/L	0.00063	0.4797 mg/L	0.00063	0.13%
B 208.889†	11744.0	0.9445 mg/L	0.00122	0.9445 mg/L	0.00122	0.13%
Ba 233.527†	52183.1	0.5111 mg/L	0.00437	0.5111 mg/L	0.00437	0.85%
Be 313.107†	81523.6	0.4898 mg/L	0.00179	0.4898 mg/L	0.00179	0.36%

Ca 317.933†	18320.1	3.806 mg/L	0.0095	3.806 mg/L	0.0095	0.25%
Cd 228.802†	23546.9	0.5070 mg/L	0.00469	0.5070 mg/L	0.00469	0.92%
Co 228.616†	23845.3	0.5036 mg/L	0.00444	0.5036 mg/L	0.00444	0.88%
Cr 267.716†	37473.4	0.5039 mg/L	0.00287	0.5039 mg/L	0.00287	0.57%
Cu 327.393†	149317.9	0.9464 mg/L	0.01176	0.9464 mg/L	0.01176	1.24%
Fe 238.204†	392.5	3.772 mg/L	0.0762	3.772 mg/L	0.0762	2.02%
K 766.490†	5986.1	3.859 mg/L	0.0369	3.859 mg/L	0.0369	0.96%
Mg 285.213†	35499.4	3.767 mg/L	0.0218	3.767 mg/L	0.0218	0.58%
Mn 257.610†	2875.6	0.4872 mg/L	0.00749	0.4872 mg/L	0.00749	1.54%
Mo 202.031†	11404.8	0.4982 mg/L	0.00069	0.4982 mg/L	0.00069	0.14%
Na 589.592†	24833.7	3.922 mg/L	0.0221	3.922 mg/L	0.0221	0.56%
Ni 231.604†	23769.5	0.5101 mg/L	0.00465	0.5101 mg/L	0.00465	0.91%
Pb 220.353†	3650.8	0.5178 mg/L	0.00138	0.5178 mg/L	0.00138	0.27%
Sb 206.836†	1796.0	0.4840 mg/L	0.00097	0.4840 mg/L	0.00097	0.20%
Se 196.026†	1331.9	0.5076 mg/L	0.00119	0.5076 mg/L	0.00119	0.23%
Sn 189.927†	3476.4	0.5128 mg/L	0.00035	0.5128 mg/L	0.00035	0.07%
Ti 337.279†	8576.2	0.4839 mg/L	0.00203	0.4839 mg/L	0.00203	0.42%
Tl 351.924†	2734.8	0.6413 mg/L	0.00477	0.6413 mg/L	0.00477	0.74%
V 290.880†	40535.8	0.5229 mg/L	0.00393	0.5229 mg/L	0.00393	0.75%
Zn 206.200†	42379.6	1.046 mg/L	0.0074	1.046 mg/L	0.0074	0.71%
Zr 343.823†	258.3	0.0008 mg/L	0.00017	0.0008 mg/L	0.00017	20.89%

Sequence No.: 41

Sample ID: B335766-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 59

Date Collected: 4/11/2023 3:37:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B335766-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	154274.6	103	%	1.34			1.31%
Y axial	3241674.2	103	%	0.46			0.44%
Ag 328.068†	16358.8	0.1920	mg/L	0.00798	0.1920 mg/L	0.00798	4.15%
Al 396.153†	2142.4	0.4849	mg/L	0.02585	0.4849 mg/L	0.02585	5.33%
As 188.979†	895.4	0.4765	mg/L	0.00103	0.4765 mg/L	0.00103	0.22%
B 208.889†	12219.2	0.9844	mg/L	0.00364	0.9844 mg/L	0.00364	0.37%
Ba 233.527†	51633.3	0.5057	mg/L	0.00427	0.5057 mg/L	0.00427	0.84%
Be 313.107†	80525.1	0.4838	mg/L	0.01238	0.4838 mg/L	0.01238	2.56%
Ca 317.933†	149267.6	31.01	mg/L	0.797	31.01 mg/L	0.797	2.57%
Cd 228.802†	22829.4	0.4915	mg/L	0.00429	0.4915 mg/L	0.00429	0.87%
Co 228.616†	22666.7	0.4782	mg/L	0.00397	0.4782 mg/L	0.00397	0.83%
Cr 267.716†	55546.1	0.7469	mg/L	0.00598	0.7469 mg/L	0.00598	0.80%
Cu 327.393†	146343.9	0.9276	mg/L	0.00813	0.9276 mg/L	0.00813	0.88%
Fe 238.204†	394.6	3.775	mg/L	0.0507	3.775 mg/L	0.0507	1.34%
K 766.490†	12646.5	8.152	mg/L	0.1885	8.152 mg/L	0.1885	2.31%
Mg 285.213†	98003.5	10.40	mg/L	0.253	10.40 mg/L	0.253	2.44%
Mn 257.610†	3014.7	0.5107	mg/L	0.00936	0.5107 mg/L	0.00936	1.83%
Mo 202.031†	11129.2	0.4861	mg/L	0.00152	0.4861 mg/L	0.00152	0.31%
Na 589.592†	456341.0	72.06	mg/L	0.200	72.06 mg/L	0.200	0.28%
Ni 231.604†	52519.0	1.128	mg/L	0.0107	1.128 mg/L	0.0107	0.95%
Pb 220.353†	3423.6	0.4860	mg/L	0.00136	0.4860 mg/L	0.00136	0.28%
Sb 206.836†	1793.6	0.4793	mg/L	0.00181	0.4793 mg/L	0.00181	0.38%
Se 196.026†	1311.3	0.4997	mg/L	0.00126	0.4997 mg/L	0.00126	0.25%
Sn 189.927†	3441.8	0.5077	mg/L	0.00208	0.5077 mg/L	0.00208	0.41%
Ti 337.279†	8487.7	0.4789	mg/L	0.01421	0.4789 mg/L	0.01421	2.97%
Tl 351.924†	2578.0	0.6046	mg/L	0.00298	0.6046 mg/L	0.00298	0.49%
V 290.880†	40307.9	0.5176	mg/L	0.00417	0.5176 mg/L	0.00417	0.81%
Zn 206.200†	43166.7	1.066	mg/L	0.0115	1.066 mg/L	0.0115	1.08%
Zr 343.823†	114.0	0.0003	mg/L	0.00005	0.0003 mg/L	0.00005	17.09%

Sequence No.: 42

Sample ID: B335766-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 4/11/2023 3:45:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B335766-MSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153749.2	103 %		1.92			1.87%
Y axial	3143469.1	99.7 %		0.51			0.52%
Ag 328.068†	15528.4	0.1823 mg/L		0.00097	0.1823 mg/L	0.00097	0.53%
Al 396.153†	2178.3	0.4926 mg/L		0.00824	0.4926 mg/L	0.00824	1.67%
As 188.979†	938.2	0.4992 mg/L		0.00380	0.4992 mg/L	0.00380	0.76%
B 208.889†	12749.5	1.027 mg/L		0.0069	1.027 mg/L	0.0069	0.67%
Ba 233.527†	54148.5	0.5304 mg/L		0.00520	0.5304 mg/L	0.00520	0.98%
Be 313.107†	82275.7	0.4942 mg/L		0.00264	0.4942 mg/L	0.00264	0.53%
Ca 317.933†	149512.4	31.06 mg/L		0.237	31.06 mg/L	0.237	0.76%
Cd 228.802†	23947.1	0.5156 mg/L		0.00456	0.5156 mg/L	0.00456	0.88%
Co 228.616†	23826.0	0.5027 mg/L		0.00592	0.5027 mg/L	0.00592	1.18%
Cr 267.716†	57805.0	0.7772 mg/L		0.00796	0.7772 mg/L	0.00796	1.02%
Cu 327.393†	154150.5	0.9770 mg/L		0.00745	0.9770 mg/L	0.00745	0.76%
Fe 238.204†	396.0	3.789 mg/L		0.0947	3.789 mg/L	0.0947	2.50%
K 766.490†	12783.0	8.240 mg/L		0.0685	8.240 mg/L	0.0685	0.83%
Mg 285.213†	98621.2	10.46 mg/L		0.070	10.46 mg/L	0.070	0.67%
Mn 257.610†	3040.3	0.5151 mg/L		0.00915	0.5151 mg/L	0.00915	1.78%
Mo 202.031†	11633.0	0.5081 mg/L		0.00234	0.5081 mg/L	0.00234	0.46%
Na 589.592†	456215.1	72.04 mg/L		1.410	72.04 mg/L	1.410	1.96%
Ni 231.604†	54302.2	1.166 mg/L		0.0098	1.166 mg/L	0.0098	0.84%
Pb 220.353†	3569.6	0.5067 mg/L		0.00247	0.5067 mg/L	0.00247	0.49%
Sb 206.836†	1881.4	0.5029 mg/L		0.00262	0.5029 mg/L	0.00262	0.52%
Se 196.026†	1367.1	0.5210 mg/L		0.00414	0.5210 mg/L	0.00414	0.80%
Sn 189.927†	3599.8	0.5310 mg/L		0.00487	0.5310 mg/L	0.00487	0.92%
Ti 337.279†	8694.6	0.4906 mg/L		0.00150	0.4906 mg/L	0.00150	0.31%
Tl 351.924†	2715.2	0.6367 mg/L		0.00501	0.6367 mg/L	0.00501	0.79%
V 290.880†	42277.0	0.5430 mg/L		0.00407	0.5430 mg/L	0.00407	0.75%
Zn 206.200†	45058.3	1.113 mg/L		0.0135	1.113 mg/L	0.0135	1.21%
Zr 343.823†	67.4	0.0001 mg/L		0.00006	0.0001 mg/L	0.00006	41.59%

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Sequence No.: 43

Sample ID: B335766-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 61

Date Collected: 4/11/2023 3:53:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B335766-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	158792.0	106 %		0.12			0.11%
Y axial	3162227.0	100 %		0.48			0.48%
Ag 328.068†	34440.1	0.4042 mg/L		0.04033	0.4042 mg/L	0.04033	9.98%
Al 396.153†	11194.0	2.590 mg/L		0.6819	2.590 mg/L	0.6819	26.32%
As 188.979†	1224.8	0.6555 mg/L		0.26218	0.6555 mg/L	0.26218	40.00%
B 208.889†	18058.6	1.458 mg/L		0.4999	1.458 mg/L	0.4999	34.29%
Ba 233.527†	84735.6	0.8299 mg/L		0.40322	0.8299 mg/L	0.40322	48.59%
Be 313.107†	423419.6	2.549 mg/L		0.6607	2.549 mg/L	0.6607	25.92%
Ca 317.933†	220444.7	45.80 mg/L		4.900	45.80 mg/L	4.900	10.70%
Cd 228.802†	37509.8	0.8083 mg/L		0.40916	0.8083 mg/L	0.40916	50.62%
Co 228.616†	36857.6	0.7744 mg/L		0.38934	0.7744 mg/L	0.38934	50.28%
Cr 267.716†	77516.7	1.042 mg/L		0.3960	1.042 mg/L	0.3960	38.00%
Cu 327.393†	237847.5	1.509 mg/L		0.7560	1.509 mg/L	0.7560	50.09%
Fe 238.204†	1745.0	16.74 mg/L		5.037	16.74 mg/L	5.037	30.09%
K 766.490†	38712.3	24.95 mg/L		5.100	24.95 mg/L	5.100	20.44%
Mg 285.213†	241356.5	25.61 mg/L		4.980	25.61 mg/L	4.980	19.45%
Mn 257.610†	12889.2	2.184 mg/L		0.6423	2.184 mg/L	0.6423	29.41%
Mo 202.031†	15090.0	0.6591 mg/L		0.27020	0.6591 mg/L	0.27020	40.99%
Na 589.592†	544507.3	85.99 mg/L		4.809	85.99 mg/L	4.809	5.59%
Ni 231.604†	67076.8	1.440 mg/L		0.3830	1.440 mg/L	0.3830	26.60%
Pb 220.353†	4681.0	0.6642 mg/L		0.26540	0.6642 mg/L	0.26540	39.96%
Sb 206.836†	2467.2	0.6568 mg/L		0.26220	0.6568 mg/L	0.26220	39.92%

Se 196.026†	1857.1	0.7076 mg/L	0.27250	0.7076 mg/L	0.27250	38.51%
Sn 189.927†	4525.5	0.6777 mg/L	0.27598	0.6777 mg/L	0.27598	40.72%
Ti 337.279†	45360.9	2.559 mg/L	0.6727	2.559 mg/L	0.6727	26.28%
Tl 351.924†	4076.4	0.9560 mg/L	0.33127	0.9560 mg/L	0.33127	34.65%
V 290.880†	64920.8	0.8263 mg/L	0.41640	0.8263 mg/L	0.41640	50.40%
Zn 206.200†	68836.1	1.699 mg/L	0.8219	1.699 mg/L	0.8219	48.39%
Zr 343.823†	72.5	-0.0002 mg/L	0.00015	-0.0002 mg/L	0.00015	74.91%

Sequence No.: 44

Sample ID: B335766-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 62

Date Collected: 4/11/2023 4:01:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B335766-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151523.4	101 %		1.14			1.13%
Y axial	3214150.7	102 %		1.19			1.17%
Ag 328.068†	367.4	0.0043 mg/L		0.00051	0.0043 mg/L	0.00051	11.93%
Al 396.153†	1.1	0.0002 mg/L		0.00287	0.0002 mg/L	0.00287	>999.9%
As 188.979†	3.3	0.0023 mg/L		0.00302	0.0023 mg/L	0.00302	130.72%
B 208.889†	433.5	0.0358 mg/L		0.00141	0.0358 mg/L	0.00141	3.95%
Ba 233.527†	382.0	0.0037 mg/L		0.00005	0.0037 mg/L	0.00005	1.34%
Be 313.107†	-14.7	-0.0001 mg/L		0.00006	-0.0001 mg/L	0.00006	60.69%
Ca 317.933†	26881.8	5.585 mg/L		0.0069	5.585 mg/L	0.0069	0.12%
Cd 228.802†	7.0	0.0001 mg/L		0.00011	0.0001 mg/L	0.00011	76.77%
Co 228.616†	24.3	0.0004 mg/L		0.00004	0.0004 mg/L	0.00004	8.55%
Cr 267.716†	4035.3	0.0543 mg/L		0.00063	0.0543 mg/L	0.00063	1.17%
Cu 327.393†	236.5	0.0015 mg/L		0.00002	0.0015 mg/L	0.00002	1.49%
Fe 238.204†	3.6	0.0316 mg/L		0.00779	0.0316 mg/L	0.00779	24.67%
K 766.490†	1343.9	0.8663 mg/L		0.01255	0.8663 mg/L	0.01255	1.45%
Mg 285.213†	13185.4	1.399 mg/L		0.0086	1.399 mg/L	0.0086	0.62%
Mn 257.610†	35.8	0.0061 mg/L		0.00052	0.0061 mg/L	0.00052	8.64%
Mo 202.031†	12.2	0.0005 mg/L		0.00018	0.0005 mg/L	0.00018	34.64%
Na 589.592†	89839.0	14.19 mg/L		0.050	14.19 mg/L	0.050	0.35%
Ni 231.604†	6283.9	0.1350 mg/L		0.00067	0.1350 mg/L	0.00067	0.50%
Pb 220.353†	17.9	0.0026 mg/L		0.00096	0.0026 mg/L	0.00096	36.47%
Sb 206.836†	13.4	0.0028 mg/L		0.00227	0.0028 mg/L	0.00227	82.34%
Se 196.026†	-3.9	-0.0015 mg/L		0.00553	-0.0015 mg/L	0.00553	367.22%
Sn 189.927†	23.5	0.0034 mg/L		0.00177	0.0034 mg/L	0.00177	51.46%
Ti 337.279†	-8.1	-0.0005 mg/L		0.00077	-0.0005 mg/L	0.00077	168.96%
Tl 351.924†	32.2	0.0076 mg/L		0.01487	0.0076 mg/L	0.01487	196.34%
V 290.880†	237.5	0.0026 mg/L		0.00030	0.0026 mg/L	0.00030	11.60%
Zn 206.200†	392.7	0.0098 mg/L		0.00005	0.0098 mg/L	0.00005	0.46%
Zr 343.823†	-33.1	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	26.64%

Sequence No.: 45

Sample ID: 23C3284-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 63

Date Collected: 4/11/2023 4:07:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	152865.6	102 %		1.12			1.10%
Y axial	3146867.1	99.8 %		0.59			0.59%
Ag 328.068†	-9.8	-0.0001 mg/L		0.00012	-0.0001 mg/L	0.00012	108.24%
Al 396.153†	29.6	0.0069 mg/L		0.00432	0.0069 mg/L	0.00432	62.84%
As 188.979†	-3.8	0.0008 mg/L		0.00232	0.0008 mg/L	0.00232	287.33%
B 208.889†	954.0	0.0788 mg/L		0.00038	0.0788 mg/L	0.00038	0.48%
Ba 233.527†	1888.9	0.0185 mg/L		0.00024	0.0185 mg/L	0.00024	1.32%
Be 313.107†	-14.8	-0.0001 mg/L		0.00006	-0.0001 mg/L	0.00006	47.63%

Ca 317.933†	135462.3	28.14 mg/L	0.066	28.14 mg/L	0.066	0.23%
Cd 228.802†	42.9	0.0010 mg/L	0.00003	0.0010 mg/L	0.00003	2.96%
Co 228.616†	99.7	0.0016 mg/L	0.00007	0.0016 mg/L	0.00007	4.68%
Cr 267.716†	20447.7	0.2749 mg/L	0.00414	0.2749 mg/L	0.00414	1.51%
Cu 327.393†	494.9	0.0031 mg/L	0.00052	0.0031 mg/L	0.00052	16.54%
Fe 238.204†	3.3	0.0146 mg/L	0.01769	0.0146 mg/L	0.01769	120.95%
K 766.490†	6774.6	4.367 mg/L	0.0487	4.367 mg/L	0.0487	1.12%
Mg 285.213†	65703.3	6.970 mg/L	0.0418	6.970 mg/L	0.0418	0.60%
Mn 257.610†	183.0	0.0310 mg/L	0.00038	0.0310 mg/L	0.00038	1.23%
Mo 202.031†	15.8	0.0007 mg/L	0.00043	0.0007 mg/L	0.00043	62.96%
Na 589.592†	449017.5	70.91 mg/L	0.208	70.91 mg/L	0.208	0.29%
Ni 231.604†	31445.8	0.6755 mg/L	0.00832	0.6755 mg/L	0.00832	1.23%
Pb 220.353†	6.3	0.0013 mg/L	0.00113	0.0013 mg/L	0.00113	85.88%
Sb 206.836†	49.4	0.0089 mg/L	0.00180	0.0089 mg/L	0.00180	20.14%
Se 196.026†	3.8	0.0014 mg/L	0.00185	0.0014 mg/L	0.00185	129.93%
Sn 189.927†	82.0	0.0120 mg/L	0.00177	0.0120 mg/L	0.00177	14.66%
Ti 337.279†	0.4	0.0000 mg/L	0.00079	0.0000 mg/L	0.00079	>999.9%
Tl 351.924†	24.5	0.0057 mg/L	0.01380	0.0057 mg/L	0.01380	240.64%
V 290.880†	1090.1	0.0115 mg/L	0.00043	0.0115 mg/L	0.00043	3.73%
Zn 206.200†	1880.4	0.0470 mg/L	0.00124	0.0470 mg/L	0.00124	2.63%
Zr 343.823†	30.0	0.0001 mg/L	0.00018	0.0001 mg/L	0.00018	165.33%

Sequence No.: 46

Sample ID: 23C3284-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 64

Date Collected: 4/11/2023 4:13:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153038.1	102	%	1.50			1.47%
Y axial	3111966.6	98.7	%	0.72			0.73%
Ag 328.068†	54.2	0.0006 mg/L		0.00038	0.0006 mg/L	0.00038	59.34%
Al 396.153†	32.8	0.0068 mg/L		0.00331	0.0068 mg/L	0.00331	48.76%
As 188.979†	-9.0	-0.0044 mg/L		0.00171	-0.0044 mg/L	0.00171	38.90%
B 208.889†	2090.6	0.1713 mg/L		0.00117	0.1713 mg/L	0.00117	0.68%
Ba 233.527†	698.6	0.0069 mg/L		0.00005	0.0069 mg/L	0.00005	0.68%
Be 313.107†	-7.9	-0.0002 mg/L		0.00007	-0.0002 mg/L	0.00007	29.23%
Ca 317.933†	74421.4	15.46 mg/L		0.365	15.46 mg/L	0.365	2.36%
Cd 228.802†	2.8	0.0001 mg/L		0.00010	0.0001 mg/L	0.00010	113.67%
Co 228.616†	55.4	0.0012 mg/L		0.00009	0.0012 mg/L	0.00009	7.16%
Cr 267.716†	31.8	0.0005 mg/L		0.00008	0.0005 mg/L	0.00008	16.69%
Cu 327.393†	1174.7	0.0075 mg/L		0.00028	0.0075 mg/L	0.00028	3.65%
Fe 238.204†	342.8	3.172 mg/L		0.0407	3.172 mg/L	0.0407	1.28%
K 766.490†	61460.5	39.62 mg/L		0.828	39.62 mg/L	0.828	2.09%
Mg 285.213†	2655486.0	281.7 mg/L		3.32	281.7 mg/L	3.32	1.18%
Mn 257.610†	372.9	0.0632 mg/L		0.00132	0.0632 mg/L	0.00132	2.10%
Mo 202.031†	647.4	0.0283 mg/L		0.00025	0.0283 mg/L	0.00025	0.88%
Na 589.592†	217646.5	34.37 mg/L		0.332	34.37 mg/L	0.332	0.97%
Ni 231.604†	642.3	0.0138 mg/L		0.00029	0.0138 mg/L	0.00029	2.13%
Pb 220.353†	-8.9	-0.0012 mg/L		0.00224	-0.0012 mg/L	0.00224	185.86%
Sb 206.836†	6.6	0.0017 mg/L		0.00094	0.0017 mg/L	0.00094	56.09%
Se 196.026†	23.3	0.0089 mg/L		0.00108	0.0089 mg/L	0.00108	12.21%
Sn 189.927†	-357.1	-0.0524 mg/L		0.00238	-0.0524 mg/L	0.00238	4.53%
Ti 337.279†	15.3	0.0009 mg/L		0.00015	0.0009 mg/L	0.00015	17.86%
Tl 351.924†	-28.6	-0.0046 mg/L		0.00302	-0.0046 mg/L	0.00302	66.19%
V 290.880†	4711.4	-0.0303 mg/L		0.00151	-0.0303 mg/L	0.00151	4.99%
Zn 206.200†	2012.2	0.0490 mg/L		0.00002	0.0490 mg/L	0.00002	0.05%
Zr 343.823†	41.8	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	82.77%

Sequence No.: 47

Sample ID: 23C3284-03

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 65

Date Collected: 4/11/2023 4:20:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: 23C3284-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153046.2	102 %		0.40			0.39%
Y axial	3235506.6	103 %		1.68			1.63%
Ag 328.068†	-107.6	-0.0013 mg/L		0.00025	-0.0013 mg/L	0.00025	20.03%
Al 396.153†	64.6	0.0152 mg/L		0.00062	0.0152 mg/L	0.00062	4.08%
As 188.979†	-15.3	-0.0002 mg/L		0.00425	-0.0002 mg/L	0.00425	>999.9%
B 208.889†	331.3	0.0276 mg/L		0.00075	0.0276 mg/L	0.00075	2.71%
Ba 233.527†	2496.9	0.0244 mg/L		0.00041	0.0244 mg/L	0.00041	1.70%
Be 313.107†	-10.8	-0.0001 mg/L		0.00001	-0.0001 mg/L	0.00001	11.31%
Ca 317.933†	45042.7	9.358 mg/L		0.0456	9.358 mg/L	0.0456	0.49%
Cd 228.802†	-10.5	-0.0002 mg/L		0.00010	-0.0002 mg/L	0.00010	63.34%
Co 228.616†	163.1	0.0034 mg/L		0.00004	0.0034 mg/L	0.00004	1.17%
Cr 267.716†	186.6	0.0037 mg/L		0.00011	0.0037 mg/L	0.00011	3.01%
Cu 327.393†	315.3	0.0034 mg/L		0.00037	0.0034 mg/L	0.00037	10.70%
Fe 238.204†	6271.1	60.26 mg/L		0.337	60.26 mg/L	0.337	0.56%
K 766.490†	2080.8	1.341 mg/L		0.0347	1.341 mg/L	0.0347	2.59%
Mg 285.213†	31787.9	3.391 mg/L		0.0191	3.391 mg/L	0.0191	0.56%
Mn 257.610†	242.5	0.0411 mg/L		0.00116	0.0411 mg/L	0.00116	2.83%
Mo 202.031†	-107.7	-0.0047 mg/L		0.00046	-0.0047 mg/L	0.00046	9.81%
Na 589.592†	183111.0	28.92 mg/L		0.108	28.92 mg/L	0.108	0.37%
Ni 231.604†	126.1	0.0027 mg/L		0.00021	0.0027 mg/L	0.00021	7.77%
Pb 220.353†	37.0	0.0022 mg/L		0.00161	0.0022 mg/L	0.00161	73.92%
Sb 206.836†	25.4	0.0011 mg/L		0.00090	0.0011 mg/L	0.00090	81.78%
Se 196.026†	10.0	0.0038 mg/L		0.00306	0.0038 mg/L	0.00306	80.05%
Sn 189.927†	39.5	0.0058 mg/L		0.00145	0.0058 mg/L	0.00145	24.98%
Ti 337.279†	16.6	0.0009 mg/L		0.00065	0.0009 mg/L	0.00065	69.55%
Tl 351.924†	-205.3	-0.0055 mg/L		0.00606	-0.0055 mg/L	0.00606	109.95%
V 290.880†	1053.6	0.0049 mg/L		0.00078	0.0049 mg/L	0.00078	16.08%
Zn 206.200†	299.9	0.0021 mg/L		0.00024	0.0021 mg/L	0.00024	11.57%
Zr 343.823†	439.7	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	23.38%

Sequence No.: 48

Sample ID: 23C3284-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 66

Date Collected: 4/11/2023 4:26:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	149439.5	99.7 %		0.99			0.99%
Y axial	3071754.4	97.4 %		0.14			0.15%
Ag 328.068†	-30.9	-0.0004 mg/L		0.00040	-0.0004 mg/L	0.00040	112.60%
Al 396.153†	3.2	0.0007 mg/L		0.00440	0.0007 mg/L	0.00440	590.90%
As 188.979†	-3.1	-0.0016 mg/L		0.00208	-0.0016 mg/L	0.00208	133.17%
B 208.889†	1519.4	0.1256 mg/L		0.00080	0.1256 mg/L	0.00080	0.64%
Ba 233.527†	13894.0	0.1360 mg/L		0.00016	0.1360 mg/L	0.00016	0.12%
Be 313.107†	0.8	-0.0000 mg/L		0.00011	-0.0000 mg/L	0.00011	242.91%
Ca 317.933†	226588.0	47.08 mg/L		0.864	47.08 mg/L	0.864	1.84%
Cd 228.802†	2.9	0.0001 mg/L		0.00009	0.0001 mg/L	0.00009	120.60%
Co 228.616†	10.0	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	27.93%
Cr 267.716†	231.8	0.0031 mg/L		0.00009	0.0031 mg/L	0.00009	2.99%
Cu 327.393†	26.9	0.0002 mg/L		0.00020	0.0002 mg/L	0.00020	111.45%
Fe 238.204†	6.4	0.0284 mg/L		0.00670	0.0284 mg/L	0.00670	23.58%
K 766.490†	5372.3	3.463 mg/L		0.0793	3.463 mg/L	0.0793	2.29%
Mg 285.213†	75544.3	8.014 mg/L		0.1080	8.014 mg/L	0.1080	1.35%
Mn 257.610†	51.5	0.0087 mg/L		0.00080	0.0087 mg/L	0.00080	9.13%
Mo 202.031†	-7.6	-0.0003 mg/L		0.00031	-0.0003 mg/L	0.00031	93.41%
Na 589.592†	1240537.9	195.9 mg/L		3.56	195.9 mg/L	3.56	1.82%
Ni 231.604†	103.9	0.0022 mg/L		0.00019	0.0022 mg/L	0.00019	8.27%
Pb 220.353†	-0.4	0.0004 mg/L		0.00242	0.0004 mg/L	0.00242	591.38%
Sb 206.836†	15.0	0.0041 mg/L		0.00300	0.0041 mg/L	0.00300	72.49%

Se 196.026†	-2.4	-0.0009 mg/L	0.00740	-0.0009 mg/L	0.00740	790.88%
Sn 189.927†	102.4	0.0150 mg/L	0.00080	0.0150 mg/L	0.00080	5.33%
Ti 337.279†	-5.5	-0.0003 mg/L	0.00093	-0.0003 mg/L	0.00093	296.55%
Tl 351.924†	-48.2	-0.0113 mg/L	0.00846	-0.0113 mg/L	0.00846	74.66%
V 290.880†	1298.3	0.0138 mg/L	0.00057	0.0138 mg/L	0.00057	4.12%
Zn 206.200†	131.1	0.0023 mg/L	0.00008	0.0023 mg/L	0.00008	3.33%
Zr 343.823†	37.4	0.0001 mg/L	0.00018	0.0001 mg/L	0.00018	137.50%

Sequence No.: 49

Sample ID: 23C3284-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 67

Date Collected: 4/11/2023 4:32:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151083.2	101 %		0.69			0.69%
Y axial	3232030.3	102 %		4.82			4.71%
Ag 328.068†	-27.4	-0.0003 mg/L		0.00008	-0.0003 mg/L	0.00008	25.79%
Al 396.153†	218.5	0.0509 mg/L		0.00216	0.0509 mg/L	0.00216	4.24%
As 188.979†	-1.8	-0.0009 mg/L		0.00174	-0.0009 mg/L	0.00174	187.62%
B 208.889†	298.0	0.0246 mg/L		0.00191	0.0246 mg/L	0.00191	7.73%
Ba 233.527†	4036.5	0.0395 mg/L		0.00163	0.0395 mg/L	0.00163	4.14%
Be 313.107†	-10.9	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	32.28%
Ca 317.933†	98625.4	20.49 mg/L		0.100	20.49 mg/L	0.100	0.49%
Cd 228.802†	0.7	0.0000 mg/L		0.00021	0.0000 mg/L	0.00021	972.19%
Co 228.616†	13.9	0.0003 mg/L		0.00004	0.0003 mg/L	0.00004	16.53%
Cr 267.716†	44.7	0.0006 mg/L		0.00014	0.0006 mg/L	0.00014	22.53%
Cu 327.393†	73.9	0.0005 mg/L		0.00039	0.0005 mg/L	0.00039	81.93%
Fe 238.204†	8.9	0.0753 mg/L		0.00879	0.0753 mg/L	0.00879	11.67%
K 766.490†	3858.7	2.487 mg/L		0.0515	2.487 mg/L	0.0515	2.07%
Mg 285.213†	42588.9	4.518 mg/L		0.0806	4.518 mg/L	0.0806	1.78%
Mn 257.610†	16.1	0.0027 mg/L		0.00077	0.0027 mg/L	0.00077	28.12%
Mo 202.031†	-4.5	-0.0002 mg/L		0.00009	-0.0002 mg/L	0.00009	46.01%
Na 589.592†	188881.3	29.83 mg/L		0.052	29.83 mg/L	0.052	0.17%
Ni 231.604†	220.9	0.0047 mg/L		0.00032	0.0047 mg/L	0.00032	6.66%
Pb 220.353†	3.9	0.0008 mg/L		0.00067	0.0008 mg/L	0.00067	87.49%
Sb 206.836†	-0.7	-0.0002 mg/L		0.00120	-0.0002 mg/L	0.00120	651.30%
Se 196.026†	3.5	0.0013 mg/L		0.00287	0.0013 mg/L	0.00287	214.52%
Sn 189.927†	55.7	0.0082 mg/L		0.00112	0.0082 mg/L	0.00112	13.66%
Ti 337.279†	40.7	0.0023 mg/L		0.00050	0.0023 mg/L	0.00050	21.90%
Tl 351.924†	16.5	0.0039 mg/L		0.00789	0.0039 mg/L	0.00789	202.29%
V 290.880†	693.5	0.0073 mg/L		0.00099	0.0073 mg/L	0.00099	13.58%
Zn 206.200†	103.7	0.0022 mg/L		0.00014	0.0022 mg/L	0.00014	6.26%
Zr 343.823†	42.3	0.0001 mg/L		0.00020	0.0001 mg/L	0.00020	137.58%

Sequence No.: 50

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt: Ag, B, TI failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 110

Autosampler Location: 5

Date Collected: 4/11/2023 4:38:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	154738.2	103 %		0.73			0.71%
Y axial	3221488.3	102 %		0.65			0.64%
Ag 328.068†	179632.2	2.091 mg/L		0.0126	2.091 mg/L	0.0126	0.60%
QC value less than the lower limit for Ag 328.068				Recovery = 83.64%			
Al 396.153†	41160.3	9.410 mg/L		0.0110	9.410 mg/L	0.0110	0.12%
QC value within limits for Al 396.153				Recovery = 94.10%			
As 188.979†	9211.3	4.869 mg/L		0.0608	4.869 mg/L	0.0608	1.25%
QC value within limits for As 188.979				Recovery = 97.38%			

B 208.889†	57348.2	4.486 mg/L	0.0583	4.486 mg/L	0.0583	1.30%
QC value less than the lower limit for B 208.889 Recovery = 89.72%						
Ba 233.527†	499993.2	4.897 mg/L	0.0102	4.897 mg/L	0.0102	0.21%
QC value within limits for Ba 233.527 Recovery = 97.94%						
Be 313.107†	787464.5	4.735 mg/L	0.0077	4.735 mg/L	0.0077	0.16%
QC value within limits for Be 313.107 Recovery = 94.69%						
Ca 317.933†	46185.1	9.596 mg/L	0.0174	9.596 mg/L	0.0174	0.18%
QC value within limits for Ca 317.933 Recovery = 95.96%						
Cd 228.802†	224564.4	4.834 mg/L	0.0025	4.834 mg/L	0.0025	0.05%
QC value within limits for Cd 228.802 Recovery = 96.68%						
Co 228.616†	228775.5	4.832 mg/L	0.0086	4.832 mg/L	0.0086	0.18%
QC value within limits for Co 228.616 Recovery = 96.63%						
Cr 267.716†	361687.9	4.864 mg/L	0.0112	4.864 mg/L	0.0112	0.23%
QC value within limits for Cr 267.716 Recovery = 97.28%						
Cu 327.393†	745306.6	4.736 mg/L	0.0049	4.736 mg/L	0.0049	0.10%
QC value within limits for Cu 327.393 Recovery = 94.72%						
Fe 238.204†	475.7	4.591 mg/L	0.0326	4.591 mg/L	0.0326	0.71%
QC value within limits for Fe 238.204 Recovery = 91.82%						
K 766.490†	15104.0	9.736 mg/L	0.0450	9.736 mg/L	0.0450	0.46%
QC value within limits for K 766.490 Recovery = 97.36%						
Mg 285.213†	91529.3	9.606 mg/L	0.0021	9.606 mg/L	0.0021	0.02%
QC value within limits for Mg 285.213 Recovery = 96.06%						
Mn 257.610†	28310.4	4.796 mg/L	0.0024	4.796 mg/L	0.0024	0.05%
QC value within limits for Mn 257.610 Recovery = 95.92%						
Mo 202.031†	110787.8	4.839 mg/L	0.0113	4.839 mg/L	0.0113	0.23%
QC value within limits for Mo 202.031 Recovery = 96.78%						
Na 589.592†	62125.9	9.811 mg/L	0.0091	9.811 mg/L	0.0091	0.09%
QC value within limits for Na 589.592 Recovery = 98.11%						
Ni 231.604†	226522.0	4.864 mg/L	0.0142	4.864 mg/L	0.0142	0.29%
QC value within limits for Ni 231.604 Recovery = 97.28%						
Pb 220.353†	34694.8	4.927 mg/L	0.0797	4.927 mg/L	0.0797	1.62%
QC value within limits for Pb 220.353 Recovery = 98.53%						
Sb 206.836†	17560.0	4.736 mg/L	0.0647	4.736 mg/L	0.0647	1.37%
QC value within limits for Sb 206.836 Recovery = 94.71%						
Se 196.026†	12596.4	4.800 mg/L	0.0658	4.800 mg/L	0.0658	1.37%
QC value within limits for Se 196.026 Recovery = 96.01%						
Sn 189.927†	33637.5	4.963 mg/L	0.0738	4.963 mg/L	0.0738	1.49%
QC value within limits for Sn 189.927 Recovery = 99.25%						
Ti 337.279†	84635.7	4.773 mg/L	0.0050	4.773 mg/L	0.0050	0.10%
QC value within limits for Ti 337.279 Recovery = 95.46%						
Tl 351.924†	13239.2	3.080 mg/L	0.0388	3.080 mg/L	0.0388	1.26%
QC value greater than the upper limit for Tl 351.924 Recovery = 123.20%						
V 290.880†	389858.3	5.043 mg/L	0.0040	5.043 mg/L	0.0040	0.08%
QC value within limits for V 290.880 Recovery = 100.85%						
Zn 206.200†	203150.1	5.026 mg/L	0.0081	5.026 mg/L	0.0081	0.16%
QC value within limits for Zn 206.200 Recovery = 100.52%						
Zr 343.823†	1359013.9	4.845 mg/L	0.0064	4.845 mg/L	0.0064	0.13%
QC Failed. Continue with analysis.						

Sequence No.: 51

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 4:45:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157860.8	105 %	0.94			0.90%
Y axial	3324763.9	105 %	1.82			1.73%
Ag 328.068†	585.6	0.0069 mg/L	0.00011	0.0069 mg/L	0.00011	1.58%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	3.5	0.0008 mg/L	0.00083	0.0008 mg/L	0.00083	106.51%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-2.1	-0.0011 mg/L	0.00199	-0.0011 mg/L	0.00199	181.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	233.3	0.0192 mg/L	0.00067	0.0192 mg/L	0.00067	3.48%

QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	25.3	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	42.64%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	7.7	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	184.82%	
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933†	4.5	0.0009 mg/L	0.00213	0.0009 mg/L	0.00213	228.95%	
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 228.802†	9.5	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	39.64%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	14.9	0.0003 mg/L	0.00024	0.0003 mg/L	0.00024	76.20%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	22.0	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	40.24%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	212.6	0.0013 mg/L	0.00031	0.0013 mg/L	0.00031	22.75%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	0.3	0.0026 mg/L	0.00526	0.0026 mg/L	0.00526	204.13%	
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	-8.7	-0.0056 mg/L	0.01089	-0.0056 mg/L	0.01089	194.65%	
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	9.2	0.0010 mg/L	0.00035	0.0010 mg/L	0.00035	35.85%	
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	6.5	0.0011 mg/L	0.00084	0.0011 mg/L	0.00084	75.62%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	22.2	0.0010 mg/L	0.00050	0.0010 mg/L	0.00050	51.30%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	206.4	0.0326 mg/L	0.00832	0.0326 mg/L	0.00832	25.53%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	13.6	0.0003 mg/L	0.00018	0.0003 mg/L	0.00018	61.18%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	19.2	0.0027 mg/L	0.00033	0.0027 mg/L	0.00033	12.31%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	7.5	0.0020 mg/L	0.00203	0.0020 mg/L	0.00203	99.17%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.6	0.0010 mg/L	0.00253	0.0010 mg/L	0.00253	257.37%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	0.4	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	211.36%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	12.0	0.0007 mg/L	0.00060	0.0007 mg/L	0.00060	88.12%	
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 351.924†	14.0	0.0033 mg/L	0.00844	0.0033 mg/L	0.00844	257.51%	
QC value within limits for Tl 351.924 Recovery = Not calculated							
V 290.880†	-15.5	-0.0002 mg/L	0.00029	-0.0002 mg/L	0.00029	172.54%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	40.7	0.0010 mg/L	0.00016	0.0010 mg/L	0.00016	15.85%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
Zr 343.823†	52.8	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	73.73%	
All analyte(s) passed QC.							

Sequence No.: 52
Sample ID: 23C3284-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 110

Autosampler Location: 68
Date Collected: 4/11/2023 4:51:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 23C3284-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155438.3	104	%	1.61			1.55%
Y axial	3310077.6	105	%	1.71			1.63%
Ag 328.068†	178.7	0.0021 mg/L		0.00028	0.0021 mg/L	0.00028	13.21%
Al 396.153†	-13.9	-0.0033 mg/L		0.00428	-0.0033 mg/L	0.00428	131.32%
As 188.979†	-0.9	-0.0005 mg/L		0.00132	-0.0005 mg/L	0.00132	273.66%
B 208.889†	150.9	0.0124 mg/L		0.00023	0.0124 mg/L	0.00023	1.86%
Ba 233.527†	20.0	0.0002 mg/L		0.00016	0.0002 mg/L	0.00016	80.85%
Be 313.107†	-31.1	-0.0002 mg/L		0.00002	-0.0002 mg/L	0.00002	11.94%
Ca 317.933†	214.4	0.0445 mg/L		0.00326	0.0445 mg/L	0.00326	7.33%
Cd 228.802†	-1.2	-0.0000 mg/L		0.00010	-0.0000 mg/L	0.00010	419.43%

Co 228.616†	2.9	0.0001 mg/L	0.00012	0.0001 mg/L	0.00012	189.89%
Cr 267.716†	27.6	0.0004 mg/L	0.00010	0.0004 mg/L	0.00010	26.11%
Cu 327.393†	140.6	0.0009 mg/L	0.00026	0.0009 mg/L	0.00026	29.43%
Fe 238.204†	-0.8	-0.0080 mg/L	0.00868	-0.0080 mg/L	0.00868	108.21%
K 766.490†	77.3	0.0498 mg/L	0.01311	0.0498 mg/L	0.01311	26.32%
Mg 285.213†	72.7	0.0077 mg/L	0.00051	0.0077 mg/L	0.00051	6.65%
Mn 257.610†	0.3	0.0000 mg/L	0.00077	0.0000 mg/L	0.00077	>999.9%
Mo 202.031†	9.8	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022	50.97%
Na 589.592†	1399.6	0.2210 mg/L	0.00483	0.2210 mg/L	0.00483	2.19%
Ni 231.604†	-9.3	-0.0002 mg/L	0.00018	-0.0002 mg/L	0.00018	90.26%
Pb 220.353†	22.2	0.0031 mg/L	0.00088	0.0031 mg/L	0.00088	27.94%
Sb 206.836†	10.7	0.0029 mg/L	0.00151	0.0029 mg/L	0.00151	51.60%
Se 196.026†	-1.1	-0.0004 mg/L	0.00221	-0.0004 mg/L	0.00221	522.71%
Sn 189.927†	2.2	0.0003 mg/L	0.00058	0.0003 mg/L	0.00058	179.52%
Ti 337.279†	10.7	0.0006 mg/L	0.00037	0.0006 mg/L	0.00037	60.35%
Tl 351.924†	5.0	0.0012 mg/L	0.00376	0.0012 mg/L	0.00376	320.93%
V 290.880†	17.1	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	85.44%
Zn 206.200†	39.4	0.0010 mg/L	0.00026	0.0010 mg/L	0.00026	26.80%
Zr 343.823†	33.4	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	116.68%

Sequence No.: 53

Sample ID: 23C3284-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 69

Date Collected: 4/11/2023 4:57:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150722.6	101 %		1.75			1.74%
Y axial	3233156.4	103 %		0.46			0.45%
Ag 328.068†	10.6	0.0001 mg/L		0.00061	0.0001 mg/L	0.00061	484.97%
Al 396.153†	37.3	0.0087 mg/L		0.01096	0.0087 mg/L	0.01096	126.41%
As 188.979†	-8.0	-0.0013 mg/L		0.00195	-0.0013 mg/L	0.00195	153.27%
B 208.889†	884.2	0.0730 mg/L		0.00061	0.0730 mg/L	0.00061	0.83%
Ba 233.527†	1714.6	0.0168 mg/L		0.00014	0.0168 mg/L	0.00014	0.86%
Be 313.107†	-9.0	-0.0001 mg/L		0.00007	-0.0001 mg/L	0.00007	71.07%
Ca 317.933†	135866.5	28.23 mg/L		0.101	28.23 mg/L	0.101	0.36%
Cd 228.802†	24.7	0.0006 mg/L		0.00013	0.0006 mg/L	0.00013	22.17%
Co 228.616†	96.9	0.0016 mg/L		0.00013	0.0016 mg/L	0.00013	8.15%
Cr 267.716†	21192.9	0.2849 mg/L		0.00445	0.2849 mg/L	0.00445	1.56%
Cu 327.393†	414.3	0.0026 mg/L		0.00016	0.0026 mg/L	0.00016	6.25%
Fe 238.204†	5.6	0.0368 mg/L		0.01972	0.0368 mg/L	0.01972	53.55%
K 766.490†	6970.4	4.493 mg/L		0.1617	4.493 mg/L	0.1617	3.60%
Mg 285.213†	66300.8	7.033 mg/L		0.2298	7.033 mg/L	0.2298	3.27%
Mn 257.610†	191.6	0.0325 mg/L		0.00053	0.0325 mg/L	0.00053	1.63%
Mo 202.031†	16.3	0.0007 mg/L		0.00022	0.0007 mg/L	0.00022	31.22%
Na 589.592†	439501.7	69.40 mg/L		0.350	69.40 mg/L	0.350	0.50%
Ni 231.604†	30538.3	0.6560 mg/L		0.00828	0.6560 mg/L	0.00828	1.26%
Pb 220.353†	9.8	0.0018 mg/L		0.00071	0.0018 mg/L	0.00071	39.43%
Sb 206.836†	48.4	0.0084 mg/L		0.00261	0.0084 mg/L	0.00261	31.04%
Se 196.026†	5.1	0.0019 mg/L		0.00203	0.0019 mg/L	0.00203	105.71%
Sn 189.927†	69.2	0.0102 mg/L		0.00018	0.0102 mg/L	0.00018	1.78%
Ti 337.279†	12.1	0.0007 mg/L		0.00051	0.0007 mg/L	0.00051	74.84%
Tl 351.924†	-24.4	-0.0057 mg/L		0.00125	-0.0057 mg/L	0.00125	21.85%
V 290.880†	1078.8	0.0114 mg/L		0.00061	0.0114 mg/L	0.00061	5.34%
Zn 206.200†	1728.6	0.0433 mg/L		0.00145	0.0433 mg/L	0.00145	3.34%
Zr 343.823†	29.0	0.0001 mg/L		0.00020	0.0001 mg/L	0.00020	194.03%

Sequence No.: 54

Sample ID: 23C3284-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 70

Date Collected: 4/11/2023 5:03:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-SRM1
04/12/23 ATP

Mean Data: 23C3284-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145161.4	96.8	%	0.96			0.99%
Y axial	3174188.4	101	%	1.20			1.20%
Ag 328.068†	85.9	0.0010	mg/L	0.00049	0.0010 mg/L	0.00049	48.99%
Al 396.153†	26.5	0.0062	mg/L	0.00969	0.0062 mg/L	0.00969	157.35%
As 188.979†	-8.7	-0.0045	mg/L	0.00177	-0.0045 mg/L	0.00177	39.15%
B 208.889†	182.4	0.0150	mg/L	0.00032	0.0150 mg/L	0.00032	2.12%
Ba 233.527†	1.6	0.0000	mg/L	0.00012	0.0000 mg/L	0.00012	797.52%
Be 313.107†	-29.1	-0.0002	mg/L	0.00009	-0.0002 mg/L	0.00009	51.55%
Ca 317.933†	220.2	0.0457	mg/L	0.00519	0.0457 mg/L	0.00519	11.34%
Cd 228.802†	19.3	0.0004	mg/L	0.00008	0.0004 mg/L	0.00008	18.61%
Co 228.616†	-20.3	-0.0004	mg/L	0.00005	-0.0004 mg/L	0.00005	11.92%
Cr 267.716†	154.3	0.0021	mg/L	0.00027	0.0021 mg/L	0.00027	12.97%
Cu 327.393†	1266.9	0.0080	mg/L	0.00028	0.0080 mg/L	0.00028	3.45%
Fe 238.204†	5.1	0.0485	mg/L	0.03708	0.0485 mg/L	0.03708	76.44%
K 766.490†	115.4	0.0744	mg/L	0.05525	0.0744 mg/L	0.05525	74.26%
Mg 285.213†	84.1	0.0089	mg/L	0.00181	0.0089 mg/L	0.00181	20.22%
Mn 257.610†	-0.1	-0.0000	mg/L	0.00153	-0.0000 mg/L	0.00153	>999.9%
Mo 202.031†	22.1	0.0010	mg/L	0.00048	0.0010 mg/L	0.00048	49.91%
Na 589.592†	648.6	0.1024	mg/L	0.00413	0.1024 mg/L	0.00413	4.03%
Ni 231.604†	8.7	0.0002	mg/L	0.00013	0.0002 mg/L	0.00013	68.81%
Pb 220.353†	163.8	0.0232	mg/L	0.00155	0.0232 mg/L	0.00155	6.69%
Sb 206.836†	11.4	0.0031	mg/L	0.00042	0.0031 mg/L	0.00042	13.57%
Se 196.026†	0.9	0.0004	mg/L	0.00449	0.0004 mg/L	0.00449	>999.9%
Sn 189.927†	286.1	0.0420	mg/L	0.00151	0.0420 mg/L	0.00151	3.60%
Ti 337.279†	13.9	0.0008	mg/L	0.00060	0.0008 mg/L	0.00060	76.63%
Tl 351.924†	26.3	0.0062	mg/L	0.01102	0.0062 mg/L	0.01102	177.37%
V 290.880†	0.8	0.0000	mg/L	0.00013	0.0000 mg/L	0.00013	471.88%
Zn 206.200†	261.6	0.0065	mg/L	0.00023	0.0065 mg/L	0.00023	3.61%
Zr 343.823†	62.1	0.0002	mg/L	0.00009	0.0002 mg/L	0.00009	42.18%

Sequence No.: 55

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 7

Date Collected: 4/11/2023 5:10:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151000.7	101	%	1.24			1.23%
Y axial	3237051.4	103	%	0.52			0.51%
Ag 328.068†	23.2	0.0003	mg/L	0.00049	0.0003 mg/L	0.00049	179.62%
Al 396.153†	-0.6	-0.0002	mg/L	0.00538	-0.0002 mg/L	0.00538	>999.9%
As 188.979†	-2.3	-0.0012	mg/L	0.00155	-0.0012 mg/L	0.00155	129.09%
B 208.889†	73.7	0.0061	mg/L	0.00028	0.0061 mg/L	0.00028	4.55%
Ba 233.527†	-5.5	-0.0001	mg/L	0.00004	-0.0001 mg/L	0.00004	82.38%
Be 313.107†	-25.1	-0.0002	mg/L	0.00006	-0.0002 mg/L	0.00006	38.04%
Ca 317.933†	35.7	0.0074	mg/L	0.00321	0.0074 mg/L	0.00321	43.26%
Cd 228.802†	3.3	0.0001	mg/L	0.00016	0.0001 mg/L	0.00016	208.39%
Co 228.616†	-2.0	-0.0000	mg/L	0.00012	-0.0000 mg/L	0.00012	278.90%
Cr 267.716†	41.6	0.0006	mg/L	0.00015	0.0006 mg/L	0.00015	26.35%
Cu 327.393†	226.6	0.0014	mg/L	0.00049	0.0014 mg/L	0.00049	34.24%
Fe 238.204†	0.3	0.0025	mg/L	0.00454	0.0025 mg/L	0.00454	178.34%
K 766.490†	-12.5	-0.0081	mg/L	0.04358	-0.0081 mg/L	0.04358	538.97%
Mg 285.213†	14.2	0.0015	mg/L	0.00068	0.0015 mg/L	0.00068	44.89%
Mn 257.610†	-1.2	-0.0002	mg/L	0.00135	-0.0002 mg/L	0.00135	661.24%
Mo 202.031†	11.1	0.0005	mg/L	0.00007	0.0005 mg/L	0.00007	14.39%
Na 589.592†	206.5	0.0326	mg/L	0.00500	0.0326 mg/L	0.00500	15.33%
Ni 231.604†	-5.7	-0.0001	mg/L	0.00026	-0.0001 mg/L	0.00026	211.49%
Pb 220.353†	9.6	0.0014	mg/L	0.00125	0.0014 mg/L	0.00125	91.75%
Sb 206.836†	11.6	0.0032	mg/L	0.00142	0.0032 mg/L	0.00142	44.96%
Se 196.026†	-1.7	-0.0007	mg/L	0.00266	-0.0007 mg/L	0.00266	403.24%
Sn 189.927†	6.5	0.0010	mg/L	0.00052	0.0010 mg/L	0.00052	54.23%

Ti 337.279†	14.1	0.0008 mg/L	0.00023	0.0008 mg/L	0.00023	29.45%
Tl 351.924†	8.8	0.0021 mg/L	0.01512	0.0021 mg/L	0.01512	730.02%
V 290.880†	-1.7	-0.0000 mg/L	0.00021	-0.0000 mg/L	0.00021	>999.9%
Zn 206.200†	23.5	0.0006 mg/L	0.00041	0.0006 mg/L	0.00041	71.04%
Zr 343.823†	37.5	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	102.34%

Sequence No.: 56

Sample ID: B336607-SRM1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 71

Date Collected: 4/11/2023 5:16:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-BS1; 04/12/23 ATP

Mean Data: B336607-SRM1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	150610.0	100	%	2.55			2.54%
Y axial	3174859.1	101	%	0.35			0.34%
Ag 328.068†	51309.5	0.6022	mg/L	0.00244	0.6022	mg/L	0.41%
Al 396.153†	261956.1	61.03	mg/L	0.314	61.03	mg/L	0.51%
As 188.979†	2868.3	1.537	mg/L	0.0340	1.537	mg/L	2.21%
B 208.889†	11045.6	0.8201	mg/L	0.00691	0.8201	mg/L	0.84%
Ba 233.527†	295591.3	2.894	mg/L	0.0072	2.894	mg/L	0.25%
Be 313.107†	141938.9	0.8491	mg/L	0.00137	0.8491	mg/L	0.16%
Ca 317.933†	189153.4	39.30	mg/L	0.041	39.30	mg/L	0.10%
Cd 228.802†	119999.4	2.583	mg/L	0.0074	2.583	mg/L	0.29%
Co 228.616†	49303.4	1.037	mg/L	0.0082	1.037	mg/L	0.79%
Cr 267.716†	153405.5	2.064	mg/L	0.0035	2.064	mg/L	0.17%
Cu 327.393†	210359.4	1.339	mg/L	0.0032	1.339	mg/L	0.24%
Fe 238.204†	9497.2	91.24	mg/L	2.447	91.24	mg/L	2.68%
K 766.490†	26733.5	17.23	mg/L	0.486	17.23	mg/L	2.82%
Mg 285.213†	173488.7	18.43	mg/L	0.093	18.43	mg/L	0.51%
Mn 257.610†	20908.2	3.542	mg/L	0.0995	3.542	mg/L	2.81%
Mo 202.031†	40553.8	1.771	mg/L	0.0101	1.771	mg/L	0.57%
Na 589.592†	24221.5	3.825	mg/L	0.1083	3.825	mg/L	2.83%
Ni 231.604†	89222.0	1.916	mg/L	0.0062	1.916	mg/L	0.32%
Pb 220.353†	14838.7	2.108	mg/L	0.0099	2.108	mg/L	0.47%
Sb 206.836†	3256.5	0.8405	mg/L	0.01112	0.8405	mg/L	1.32%
Se 196.026†	5327.5	2.031	mg/L	0.0409	2.031	mg/L	2.01%
Sn 189.927†	8127.4	1.210	mg/L	0.0088	1.210	mg/L	0.73%
Ti 337.279†	57583.1	3.249	mg/L	0.0859	3.249	mg/L	2.64%
Tl 351.924†	4285.5	1.051	mg/L	0.0069	1.051	mg/L	0.66%
V 290.880†	167486.3	2.143	mg/L	0.0058	2.143	mg/L	0.27%
Zn 206.200†	80185.3	1.978	mg/L	0.0067	1.978	mg/L	0.34%
Zr 343.823†	15853.3	0.0540	mg/L	0.00059	0.0540	mg/L	1.09%

Sequence No.: 57

Sample ID: B336607-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 72

Date Collected: 4/11/2023 5:22:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-BSD1; 04/12/23 ATP

Mean Data: B336607-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	149772.3	99.9	%	1.10			1.10%
Y axial	3156996.0	100	%	0.22			0.22%
Ag 328.068†	51749.0	0.6073	mg/L	0.00493	0.6073	mg/L	0.81%
Al 396.153†	271278.7	63.21	mg/L	0.181	63.21	mg/L	0.29%
As 188.979†	2799.7	1.500	mg/L	0.0025	1.500	mg/L	0.17%
B 208.889†	10473.1	0.7777	mg/L	0.00293	0.7777	mg/L	0.38%
Ba 233.527†	285183.8	2.792	mg/L	0.0027	2.792	mg/L	0.10%
Be 313.107†	126970.2	0.7593	mg/L	0.00160	0.7593	mg/L	0.21%
Ca 317.933†	187332.0	38.92	mg/L	0.115	38.92	mg/L	0.30%
Cd 228.802†	102598.0	2.207	mg/L	0.0013	2.207	mg/L	0.06%

Co 228.616†	43476.6	0.9134 mg/L	0.00115	0.9134 mg/L	0.00115	0.13%
Cr 267.716†	140180.3	1.886 mg/L	0.0034	1.886 mg/L	0.0034	0.18%
Cu 327.393†	200484.8	1.276 mg/L	0.0027	1.276 mg/L	0.0027	0.21%
Fe 238.204†	9847.0	94.60 mg/L	1.253	94.60 mg/L	1.253	1.32%
K 766.490†	27893.6	17.98 mg/L	0.300	17.98 mg/L	0.300	1.67%
Mg 285.213†	178877.6	19.00 mg/L	0.029	19.00 mg/L	0.029	0.15%
Mn 257.610†	20152.5	3.414 mg/L	0.0366	3.414 mg/L	0.0366	1.07%
Mo 202.031†	38417.8	1.678 mg/L	0.0058	1.678 mg/L	0.0058	0.34%
Na 589.592†	24528.8	3.873 mg/L	0.0084	3.873 mg/L	0.0084	0.22%
Ni 231.604†	76830.7	1.650 mg/L	0.0020	1.650 mg/L	0.0020	0.12%
Pb 220.353†	15000.2	2.130 mg/L	0.0057	2.130 mg/L	0.0057	0.27%
Sb 206.836†	3070.5	0.7916 mg/L	0.00046	0.7916 mg/L	0.00046	0.06%
Se 196.026†	4973.9	1.896 mg/L	0.0123	1.896 mg/L	0.0123	0.65%
Sn 189.927†	8257.4	1.230 mg/L	0.0010	1.230 mg/L	0.0010	0.08%
Ti 337.279†	60407.9	3.408 mg/L	0.0409	3.408 mg/L	0.0409	1.20%
Tl 351.924†	4070.3	1.003 mg/L	0.0042	1.003 mg/L	0.0042	0.42%
V 290.880†	155915.3	1.994 mg/L	0.0046	1.994 mg/L	0.0046	0.23%
Zn 206.200†	78690.1	1.940 mg/L	0.0035	1.940 mg/L	0.0035	0.18%
Zr 343.823†	15679.6	0.0533 mg/L	0.00027	0.0533 mg/L	0.00027	0.50%

Sequence No.: 58

Sample ID: B336607-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 73

Date Collected: 4/11/2023 5:29:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-MS1; 04/12/23 ATP

Mean Data: B336607-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147255.9	98.2 %		1.55			1.58%
Y axial	2888256.9	91.6 %		0.29			0.31%
Ag 328.068†	42827.2	0.5017 mg/L		0.00180	0.5017 mg/L	0.00180	0.36%
Al 396.153†	906237.0	211.3 mg/L		3.63	211.3 mg/L	3.63	1.72%
As 188.979†	966.3	0.5758 mg/L		0.00383	0.5758 mg/L	0.00383	0.67%
B 208.889†	11346.6	0.9139 mg/L		0.00320	0.9139 mg/L	0.00320	0.35%
Ba 233.527†	163026.0	1.597 mg/L		0.0010	1.597 mg/L	0.0010	0.06%
Be 313.107†	79454.5	0.4749 mg/L		0.00145	0.4749 mg/L	0.00145	0.31%
Ca 317.933†	4356297.7	905.1 mg/L		15.14	905.1 mg/L	15.14	1.67%
Cd 228.802†	21944.4	0.4724 mg/L		0.00055	0.4724 mg/L	0.00055	0.12%
Co 228.616†	25822.2	0.5172 mg/L		0.00150	0.5172 mg/L	0.00150	0.29%
Cr 267.716†	62595.1	0.8463 mg/L		0.00098	0.8463 mg/L	0.00098	0.12%
Cu 327.393†	262691.8	1.686 mg/L		0.0035	1.686 mg/L	0.0035	0.20%
Fe 238.204†	30918.5	296.8 mg/L		1.20	296.8 mg/L	1.20	0.41%
K 766.490†	41676.3	26.86 mg/L		0.084	26.86 mg/L	0.084	0.31%
Mg 285.213†	924680.1	98.18 mg/L		1.669	98.18 mg/L	1.669	1.70%
Mn 257.610†	42395.3	7.182 mg/L		0.0146	7.182 mg/L	0.0146	0.20%
Mo 202.031†	10448.9	0.4564 mg/L		0.00089	0.4564 mg/L	0.00089	0.19%
Na 589.592†	72404.8	11.43 mg/L		0.030	11.43 mg/L	0.030	0.26%
Ni 231.604†	32331.8	0.6941 mg/L		0.00099	0.6941 mg/L	0.00099	0.14%
Pb 220.353†	9796.7	1.405 mg/L		0.0038	1.405 mg/L	0.0038	0.27%
Sb 206.836†	749.5	0.1289 mg/L		0.00208	0.1289 mg/L	0.00208	1.61%
Se 196.026†	1171.6	0.4460 mg/L		0.00214	0.4460 mg/L	0.00214	0.48%
Sn 189.927†	2918.9	0.5094 mg/L		0.00098	0.5094 mg/L	0.00098	0.19%
Ti 337.279†	273648.2	15.44 mg/L		0.031	15.44 mg/L	0.031	0.20%
Tl 351.924†	1956.0	0.6016 mg/L		0.00226	0.6016 mg/L	0.00226	0.38%
V 290.880†	107538.2	1.302 mg/L		0.0015	1.302 mg/L	0.0015	0.11%
Zn 206.200†	112193.4	2.734 mg/L		0.0039	2.734 mg/L	0.0039	0.14%
Zr 343.823†	78682.0	0.2724 mg/L		0.00033	0.2724 mg/L	0.00033	0.12%

Sequence No.: 59

Sample ID: B336607-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 74

Date Collected: 4/11/2023 5:36:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-DUP1; 04/12/23 ATP

Mean Data: B336607-MS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147632.5	98.5 %	1.00			1.02%
Y axial	2878096.7	91.3 %	0.22			0.24%
Ag 328.068†	-1339.9	-0.0165 mg/L	0.00086	-0.0165 mg/L	0.00086	5.20%
Al 396.153†	858106.8	200.1 mg/L	0.28	200.1 mg/L	0.28	0.14%
As 188.979†	150.3	0.1385 mg/L	0.00055	0.1385 mg/L	0.00055	0.40%
B 208.889†	1426.4	0.1171 mg/L	0.00132	0.1171 mg/L	0.00132	1.12%
Ba 233.527†	167363.1	1.638 mg/L	0.0018	1.638 mg/L	0.0018	0.11%
Be 313.107†	2399.0	0.0122 mg/L	0.00027	0.0122 mg/L	0.00027	2.23%
Ca 317.933†	4452477.2	925.1 mg/L	0.31	925.1 mg/L	0.31	0.03%
Cd 228.802†	203.3	0.0045 mg/L	0.00029	0.0045 mg/L	0.00029	6.39%
Co 228.616†	6472.5	0.1142 mg/L	0.00028	0.1142 mg/L	0.00028	0.25%
Cr 267.716†	27293.6	0.3713 mg/L	0.00065	0.3713 mg/L	0.00065	0.17%
Cu 327.393†	119570.0	0.7754 mg/L	0.00199	0.7754 mg/L	0.00199	0.26%
Fe 238.204†	29290.3	281.2 mg/L	5.29	281.2 mg/L	5.29	1.88%
K 766.490†	34880.6	22.48 mg/L	0.510	22.48 mg/L	0.510	2.27%
Mg 285.213†	837996.2	88.98 mg/L	0.181	88.98 mg/L	0.181	0.20%
Mn 257.610†	39676.9	6.722 mg/L	0.1312	6.722 mg/L	0.1312	1.95%
Mo 202.031†	363.9	0.0159 mg/L	0.00042	0.0159 mg/L	0.00042	2.63%
Na 589.592†	46393.3	7.326 mg/L	0.0178	7.326 mg/L	0.0178	0.24%
Ni 231.604†	12358.5	0.2656 mg/L	0.00072	0.2656 mg/L	0.00072	0.27%
Pb 220.353†	15274.2	2.179 mg/L	0.0023	2.179 mg/L	0.0023	0.11%
Sb 206.836†	244.8	0.0034 mg/L	0.00141	0.0034 mg/L	0.00141	40.99%
Se 196.026†	10.0	0.0033 mg/L	0.00420	0.0033 mg/L	0.00420	126.28%
Sn 189.927†	411.4	0.1222 mg/L	0.00270	0.1222 mg/L	0.00270	2.21%
Ti 337.279†	209023.4	11.79 mg/L	0.015	11.79 mg/L	0.015	0.13%
Tl 351.924†	-651.4	-0.0050 mg/L	0.00161	-0.0050 mg/L	0.00161	32.23%
V 290.880†	64430.7	0.7512 mg/L	0.00093	0.7512 mg/L	0.00093	0.12%
Zn 206.200†	82771.6	2.008 mg/L	0.0077	2.008 mg/L	0.0077	0.38%
Zr 343.823†	69587.5	0.2404 mg/L	0.00095	0.2404 mg/L	0.00095	0.40%

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Sequence No.: 60

Sample ID: B336607-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 75

Date Collected: 4/11/2023 5:42:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336607-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145378.4	97.0 %	1.70			1.75%
Y axial	2873006.5	91.1 %	1.02			1.12%
Ag 328.068†	-1355.4	-0.0166 mg/L	0.00075	-0.0166 mg/L	0.00075	4.54%
Al 396.153†	876415.0	204.4 mg/L	0.82	204.4 mg/L	0.82	0.40%
As 188.979†	138.0	0.1339 mg/L	0.00330	0.1339 mg/L	0.00330	2.46%
B 208.889†	1305.6	0.1072 mg/L	0.00299	0.1072 mg/L	0.00299	2.79%
Ba 233.527†	111721.2	1.094 mg/L	0.0021	1.094 mg/L	0.0021	0.19%
Be 313.107†	2436.2	0.0124 mg/L	0.00016	0.0124 mg/L	0.00016	1.30%
Ca 317.933†	4310205.6	895.5 mg/L	0.47	895.5 mg/L	0.47	0.05%
Cd 228.802†	213.8	0.0047 mg/L	0.00049	0.0047 mg/L	0.00049	10.46%
Co 228.616†	6120.0	0.1072 mg/L	0.00183	0.1072 mg/L	0.00183	1.70%
Cr 267.716†	27211.9	0.3704 mg/L	0.00472	0.3704 mg/L	0.00472	1.27%
Cu 327.393†	116768.8	0.7579 mg/L	0.00311	0.7579 mg/L	0.00311	0.41%
Fe 238.204†	30703.8	294.8 mg/L	7.99	294.8 mg/L	7.99	2.71%
K 766.490†	35488.5	22.88 mg/L	0.623	22.88 mg/L	0.623	2.72%
Mg 285.213†	849815.9	90.24 mg/L	0.603	90.24 mg/L	0.603	0.67%
Mn 257.610†	41717.4	7.067 mg/L	0.1739	7.067 mg/L	0.1739	2.46%
Mo 202.031†	329.2	0.0144 mg/L	0.00106	0.0144 mg/L	0.00106	7.38%
Na 589.592†	45052.8	7.114 mg/L	0.0136	7.114 mg/L	0.0136	0.19%
Ni 231.604†	12390.8	0.2663 mg/L	0.00375	0.2663 mg/L	0.00375	1.41%
Pb 220.353†	6938.8	0.9981 mg/L	0.01210	0.9981 mg/L	0.01210	1.21%
Sb 206.836†	250.6	0.0033 mg/L	0.00331	0.0033 mg/L	0.00331	101.48%
Se 196.026†	17.9	0.0064 mg/L	0.00618	0.0064 mg/L	0.00618	97.25%
Sn 189.927†	401.6	0.1205 mg/L	0.00225	0.1205 mg/L	0.00225	1.87%

Ti 337.279†	207872.2	11.73 mg/L	0.023	11.73 mg/L	0.023	0.20%
Tl 351.924†	-737.6	-0.0153 mg/L	0.00928	-0.0153 mg/L	0.00928	60.50%
V 290.880†	65168.4	0.7584 mg/L	0.00210	0.7584 mg/L	0.00210	0.28%
Zn 206.200†	76049.9	1.842 mg/L	0.0072	1.842 mg/L	0.0072	0.39%
Zr 343.823†	65523.9	0.2255 mg/L	0.00092	0.2255 mg/L	0.00092	0.41%

Sequence No.: 61

Sample ID: 23D0873-01

Analyst:

Initial Sample Wt: Empty Position; 04/12/23 ATP

Dilution:

Wash Time (before sample): 220

Autosampler Location: 76

Date Collected: 4/11/2023 5:49:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23D0873-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	276977.3	185 %	0.66			0.36%
Internal Standard Check greater than the upper limit for Y radial. Recovery = 184.8%						
Y axial	628477.4	199 %	9.10			4.57%
Internal Standard Check greater than the upper limit for Y axial. Recovery = 199.3%						
Ag 328.068†	-42.0	-0.0005 mg/L	0.00012	-0.0005 mg/L	0.00012	23.85%
Al 396.153†	-25.1	-0.0059 mg/L	0.00106	-0.0059 mg/L	0.00106	18.04%
As 188.979†	23.9	0.0125 mg/L	0.00095	0.0125 mg/L	0.00095	7.62%
B 208.889†	-86.8	-0.0072 mg/L	0.00043	-0.0072 mg/L	0.00043	5.93%
Ba 233.527†	166.8	0.0016 mg/L	0.00009	0.0016 mg/L	0.00009	5.57%
Be 313.107†	-633.3	-0.0038 mg/L	0.00006	-0.0038 mg/L	0.00006	1.61%
Ca 317.933†	74.8	0.0156 mg/L	0.00230	0.0156 mg/L	0.00230	14.76%
Cd 228.802†	-57.4	-0.0013 mg/L	0.00012	-0.0013 mg/L	0.00012	8.79%
Co 228.616†	-4.1	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	142.42%
Cr 267.716†	-107.5	-0.0015 mg/L	0.00002	-0.0015 mg/L	0.00002	1.36%
Cu 327.393†	211.7	0.0013 mg/L	0.00008	0.0013 mg/L	0.00008	5.86%
Fe 238.204†	-12.4	-0.1190 mg/L	0.00516	-0.1190 mg/L	0.00516	4.34%
K 766.490†	-158.0	-0.1018 mg/L	0.01850	-0.1018 mg/L	0.01850	18.16%
Mg 285.213†	-50.9	-0.0054 mg/L	0.00027	-0.0054 mg/L	0.00027	4.91%
Mn 257.610†	56.2	0.0095 mg/L	0.00013	0.0095 mg/L	0.00013	1.39%
Mo 202.031†	8.4	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	21.96%
Na 589.592†	-210.7	-0.0333 mg/L	0.00484	-0.0333 mg/L	0.00484	14.54%
Ni 231.604†	-40.9	-0.0009 mg/L	0.00008	-0.0009 mg/L	0.00008	8.64%
Pb 220.353†	1.6	0.0002 mg/L	0.00146	0.0002 mg/L	0.00146	618.96%
Sb 206.836†	-68.2	-0.0187 mg/L	0.00174	-0.0187 mg/L	0.00174	9.31%
Se 196.026†	12.6	0.0048 mg/L	0.00055	0.0048 mg/L	0.00055	11.40%
Sn 189.927†	-30.4	-0.0044 mg/L	0.00005	-0.0044 mg/L	0.00005	1.10%
Ti 337.279†	77.5	0.0044 mg/L	0.00035	0.0044 mg/L	0.00035	7.99%
Tl 351.924†	-31.8	-0.0075 mg/L	0.00255	-0.0075 mg/L	0.00255	33.82%
V 290.880†	-800.7	-0.0101 mg/L	0.00019	-0.0101 mg/L	0.00019	1.84%
Zn 206.200†	184.9	0.0046 mg/L	0.00007	0.0046 mg/L	0.00007	1.56%
Zr 343.823†	5.7	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	179.47%
Internal Standard Check failed. Continue with analysis.						

Sequence No.: 62

Sample ID: SEQ-IFA @2211113

Analyst:

Initial Sample Wt: Mg failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 110

Autosampler Location: 11

Date Collected: 4/11/2023 5:55:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA @2211113

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	146562.1	97.8 %	0.33			0.34%
Y axial	3012344.4	95.5 %	0.34			0.36%
Ag 328.068†	-284.9	-0.0033 mg/L	0.00081	-0.0033 mg/L	0.00081	24.14%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	990432.2	231.0 mg/L	0.98	231.0 mg/L	0.98	0.42%
QC value within limits for Al 396.153 Recovery = 92.38%						
As 188.979†	-49.1	-0.0055 mg/L	0.00607	-0.0055 mg/L	0.00607	109.52%

Ba	233.527†	350.6	0.0035 mg/L	0.00012	0.0035 mg/L	0.00012	3.45%
Be	313.107†	13.8	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	35.80%
Ca	317.933†	1054384.8	219.1 mg/L	1.27	219.1 mg/L	1.27	0.58%
Cd	228.802†	-5.7	0.0000 mg/L	0.00031	0.0000 mg/L	0.00031	>999.9%
Co	228.616†	24.4	0.0005 mg/L	0.00040	0.0005 mg/L	0.00040	80.94%
Cr	267.716†	-160.2	-0.0005 mg/L	0.00022	-0.0005 mg/L	0.00022	48.28%
Cu	327.393†	-471.2	-0.0009 mg/L	0.00026	-0.0009 mg/L	0.00026	29.53%
Fe	238.204†	8985.9	86.19 mg/L	0.566	86.19 mg/L	0.566	0.66%
K	766.490†	100.7	0.0649 mg/L	0.00553	0.0649 mg/L	0.00553	8.52%
Mg	285.213†	1824502.8	193.6 mg/L	0.55	193.6 mg/L	0.55	0.28%
Mn	257.610†	40.0	0.0068 mg/L	0.00004	0.0068 mg/L	0.00004	0.58%
Mo	202.031†	-318.0	-0.0139 mg/L	0.00064	-0.0139 mg/L	0.00064	4.58%
Na	589.592†	537.3	0.0849 mg/L	0.00626	0.0849 mg/L	0.00626	7.38%
Ni	231.604†	-24.0	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	23.91%
Pb	220.353†	-154.7	-0.0012 mg/L	0.00292	-0.0012 mg/L	0.00292	253.76%
Sb	206.836†	143.9	0.0020 mg/L	0.00298	0.0020 mg/L	0.00298	151.48%
Se	196.026†	32.2	0.0122 mg/L	0.00900	0.0122 mg/L	0.00900	73.51%
Sn	189.927†	-24.3	-0.0036 mg/L	0.00138	-0.0036 mg/L	0.00138	38.60%
Ti	337.279†	9.2	0.0005 mg/L	0.00090	0.0005 mg/L	0.00090	173.76%
Tl	351.924†	-465.9	-0.0484 mg/L	0.00262	-0.0484 mg/L	0.00262	5.42%
V	290.880†	5832.5	0.0009 mg/L	0.00070	0.0009 mg/L	0.00070	74.89%
Zn	206.200†	-148.5	-0.0065 mg/L	0.00008	-0.0065 mg/L	0.00008	1.16%
Zr	343.823†	772.2	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.39%
QC Failed. Continue with analysis.							

Sequence No.: 63
Sample ID: SEQ-IFB @2211114
Analyst:
Initial Sample Wt: Mg failed; 04/12/23 ATP
Dilution:
Wash Time (before sample): 110

Autosampler Location: 12
Date Collected: 4/11/2023 6:01:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFB @2211114

Analyte	Mean	Corrected	Calib.	Std.Dev.	Conc.	Units	Std.Dev.	RSD
	Intensity	Conc.	Units					
Y radial	141955.7	94.7	%	2.05				2.17%
Y axial	2841545.0	90.1	%	1.03				1.14%
Ag 328.068†	35739.0	0.4195	mg/L	0.01094	0.4195	mg/L	0.01094	2.61%
QC value within limits for Ag 328.068			Recovery = 104.87%					
Al 396.153†	1022593.9	238.5	mg/L	5.49	238.5	mg/L	5.49	2.30%
QC value within limits for Al 396.153			Recovery = 95.38%					
As 188.979†	279.6	0.1770	mg/L	0.00027	0.1770	mg/L	0.00027	0.15%
QC value within limits for As 188.979			Recovery = 88.51%					

B 208.889†	51.2	0.0050 mg/L	0.00105	0.0050 mg/L	0.00105	20.82%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	99039.1	0.9701 mg/L	0.00094	0.9701 mg/L	0.00094	0.10%
QC value within limits for Ba 233.527 Recovery = 97.01%						
Be 313.107†	153715.1	0.9231 mg/L	0.02236	0.9231 mg/L	0.02236	2.42%
QC value within limits for Be 313.107 Recovery = 92.31%						
Ca 317.933†	1084274.2	225.3 mg/L	5.30	225.3 mg/L	5.30	2.35%
QC value within limits for Ca 317.933 Recovery = 90.11%						
Cd 228.802†	91810.4	1.982 mg/L	0.0039	1.982 mg/L	0.0039	0.20%
QC value within limits for Cd 228.802 Recovery = 99.11%						
Co 228.616†	41379.8	0.8733 mg/L	0.00877	0.8733 mg/L	0.00877	1.00%
QC value within limits for Co 228.616 Recovery = 87.33%						
Cr 267.716†	70027.1	0.9434 mg/L	0.00171	0.9434 mg/L	0.00171	0.18%
QC value within limits for Cr 267.716 Recovery = 94.34%						
Cu 327.393†	151883.6	0.9640 mg/L	0.00355	0.9640 mg/L	0.00355	0.37%
QC value within limits for Cu 327.393 Recovery = 96.40%						
Fe 238.204†	9197.1	88.23 mg/L	2.349	88.23 mg/L	2.349	2.66%
QC value within limits for Fe 238.204 Recovery = 88.23%						
K 766.490†	79.8	0.0514 mg/L	0.00755	0.0514 mg/L	0.00755	14.68%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1884091.9	199.9 mg/L	4.21	199.9 mg/L	4.21	2.10%
QC value less than the lower limit for Mg 285.213 Recovery = 79.95%						
Mn 257.610†	5352.0	0.9067 mg/L	0.02300	0.9067 mg/L	0.02300	2.54%
QC value within limits for Mn 257.610 Recovery = 90.67%						
Mo 202.031†	-348.3	-0.0152 mg/L	0.00034	-0.0152 mg/L	0.00034	2.21%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	665.3	0.1051 mg/L	0.00261	0.1051 mg/L	0.00261	2.49%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	82232.3	1.766 mg/L	0.0021	1.766 mg/L	0.0021	0.12%
QC value within limits for Ni 231.604 Recovery = 88.31%						
Pb 220.353†	478.4	0.0887 mg/L	0.00289	0.0887 mg/L	0.00289	3.26%
QC value within limits for Pb 220.353 Recovery = 88.68%						
Sb 206.836†	3918.6	1.026 mg/L	0.0107	1.026 mg/L	0.0107	1.04%
QC value within limits for Sb 206.836 Recovery = 85.48%						
Se 196.026†	299.0	0.1131 mg/L	0.00357	0.1131 mg/L	0.00357	3.16%
QC value within limits for Se 196.026 Recovery = 113.08%						
Sn 189.927†	-16.7	-0.0024 mg/L	0.00480	-0.0024 mg/L	0.00480	196.07%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	8.4	0.0005 mg/L	0.00031	0.0005 mg/L	0.00031	66.87%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	598.6	0.2000 mg/L	0.00555	0.2000 mg/L	0.00555	2.78%
QC value within limits for Tl 351.924 Recovery = 100.01%						
V 290.880†	82913.2	0.9713 mg/L	0.00315	0.9713 mg/L	0.00315	0.32%
QC value within limits for V 290.880 Recovery = 97.13%						
Zn 206.200†	74401.2	1.835 mg/L	0.0008	1.835 mg/L	0.0008	0.04%
QC value within limits for Zn 206.200 Recovery = 91.74%						
Zr 343.823†	844.6	0.0006 mg/L	0.00017	0.0006 mg/L	0.00017	29.03%
QC Failed. Continue with analysis.						

Sequence No.: 64

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 6:09:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150395.3	100 %	1.08			1.08%
Y axial	3134934.6	99.4 %	2.24			2.25%
Ag 328.068†	169282.6	1.970 mg/L	0.0199	1.970 mg/L	0.0199	1.01%
QC value less than the lower limit for Ag 328.068 Recovery = 78.79%						
Al 396.153†	40835.3	9.336 mg/L	0.0956	9.336 mg/L	0.0956	1.02%
QC value within limits for Al 396.153 Recovery = 93.36%						
As 188.979†	8914.8	4.713 mg/L	0.1503	4.713 mg/L	0.1503	3.19%
QC value within limits for As 188.979 Recovery = 94.26%						
B 208.889†	56069.2	4.383 mg/L	0.1416	4.383 mg/L	0.1416	3.23%

QC value less than the lower limit for B 208.889	Recovery = 87.66%				
Ba 233.527†	494144.1	4.840 mg/L	0.1438	4.840 mg/L	0.1438 2.97%
QC value within limits for Ba 233.527	Recovery = 96.80%				
Be 313.107†	764470.4	4.596 mg/L	0.0370	4.596 mg/L	0.0370 0.80%
QC value within limits for Be 313.107	Recovery = 91.93%				
Ca 317.933†	45031.8	9.356 mg/L	0.0838	9.356 mg/L	0.0838 0.90%
QC value within limits for Ca 317.933	Recovery = 93.56%				
Cd 228.802†	222582.8	4.792 mg/L	0.1439	4.792 mg/L	0.1439 3.00%
QC value within limits for Cd 228.802	Recovery = 95.84%				
Co 228.616†	226244.5	4.778 mg/L	0.1415	4.778 mg/L	0.1415 2.96%
QC value within limits for Co 228.616	Recovery = 95.57%				
Cr 267.716†	358094.9	4.815 mg/L	0.1462	4.815 mg/L	0.1462 3.04%
QC value within limits for Cr 267.716	Recovery = 96.31%				
Cu 327.393†	742124.8	4.716 mg/L	0.1438	4.716 mg/L	0.1438 3.05%
QC value within limits for Cu 327.393	Recovery = 94.31%				
Fe 238.204†	457.2	4.413 mg/L	0.0499	4.413 mg/L	0.0499 1.13%
QC value less than the lower limit for Fe 238.204	Recovery = 88.26%				
K 766.490†	14834.0	9.562 mg/L	0.1470	9.562 mg/L	0.1470 1.54%
QC value within limits for K 766.490	Recovery = 95.62%				
Mg 285.213†	90238.1	9.470 mg/L	0.0944	9.470 mg/L	0.0944 1.00%
QC value within limits for Mg 285.213	Recovery = 94.70%				
Mn 257.610†	27306.4	4.626 mg/L	0.0301	4.626 mg/L	0.0301 0.65%
QC value within limits for Mn 257.610	Recovery = 92.52%				
Mo 202.031†	109662.4	4.790 mg/L	0.1414	4.790 mg/L	0.1414 2.95%
QC value within limits for Mo 202.031	Recovery = 95.80%				
Na 589.592†	61420.7	9.699 mg/L	0.0816	9.699 mg/L	0.0816 0.84%
QC value within limits for Na 589.592	Recovery = 96.99%				
Ni 231.604†	223884.5	4.807 mg/L	0.1476	4.807 mg/L	0.1476 3.07%
QC value within limits for Ni 231.604	Recovery = 96.14%				
Pb 220.353†	34091.6	4.841 mg/L	0.1449	4.841 mg/L	0.1449 2.99%
QC value within limits for Pb 220.353	Recovery = 96.82%				
Sb 206.836†	17096.5	4.609 mg/L	0.1460	4.609 mg/L	0.1460 3.17%
QC value within limits for Sb 206.836	Recovery = 92.18%				
Se 196.026†	12255.8	4.670 mg/L	0.1527	4.670 mg/L	0.1527 3.27%
QC value within limits for Se 196.026	Recovery = 93.41%				
Sn 189.927†	33015.0	4.871 mg/L	0.1644	4.871 mg/L	0.1644 3.37%
QC value within limits for Sn 189.927	Recovery = 97.41%				
Ti 337.279†	82688.2	4.663 mg/L	0.0379	4.663 mg/L	0.0379 0.81%
QC value within limits for Ti 337.279	Recovery = 93.26%				
Tl 351.924†	13018.5	3.029 mg/L	0.0910	3.029 mg/L	0.0910 3.01%
QC value greater than the upper limit for Tl 351.924	Recovery = 121.15%				
V 290.880†	383781.2	4.965 mg/L	0.1552	4.965 mg/L	0.1552 3.13%
QC value within limits for V 290.880	Recovery = 99.29%				
Zn 206.200†	199004.8	4.924 mg/L	0.1469	4.924 mg/L	0.1469 2.98%
QC value within limits for Zn 206.200	Recovery = 98.48%				
Zr 343.823†	1346324.7	4.800 mg/L	0.1460	4.800 mg/L	0.1460 3.04%
QC Failed. Retry.					

Sequence No.: 65
Sample ID: SEQ-CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 220

Autosampler Location: 5
Date Collected: 4/11/2023 6:12:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Ag, B, Tl failed; 04/12/23 ATP

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	148339.5	99.0 %	0.46			0.47%
Y axial	3148197.8	99.8 %	1.30			1.30%
Ag 328.068†	168115.8	1.956 mg/L	0.0309	1.956 mg/L	0.0309	1.58%
QC value less than the lower limit for Ag 328.068	Recovery = 78.24%					
Al 396.153†	41417.4	9.471 mg/L	0.0044	9.471 mg/L	0.0044	0.05%
QC value within limits for Al 396.153	Recovery = 94.71%					
As 188.979†	8915.3	4.713 mg/L	0.0671	4.713 mg/L	0.0671	1.42%
QC value within limits for As 188.979	Recovery = 94.27%					
B 208.889†	56258.8	4.398 mg/L	0.0623	4.398 mg/L	0.0623	1.42%
QC value less than the lower limit for B 208.889	Recovery = 87.96%					

Ba 233.527†	494526.5	4.844 mg/L	0.0022	4.844 mg/L	0.0022	0.05%
QC value within limits for Ba 233.527		Recovery = 96.87%				
Be 313.107†	777298.7	4.674 mg/L	0.0087	4.674 mg/L	0.0087	0.19%
QC value within limits for Be 313.107		Recovery = 93.47%				
Ca 317.933†	45640.0	9.483 mg/L	0.0288	9.483 mg/L	0.0288	0.30%
QC value within limits for Ca 317.933		Recovery = 94.83%				
Cd 228.802†	222833.8	4.797 mg/L	0.0059	4.797 mg/L	0.0059	0.12%
QC value within limits for Cd 228.802		Recovery = 95.95%				
Co 228.616†	226666.4	4.787 mg/L	0.0062	4.787 mg/L	0.0062	0.13%
QC value within limits for Co 228.616		Recovery = 95.74%				
Cr 267.716†	358616.2	4.822 mg/L	0.0035	4.822 mg/L	0.0035	0.07%
QC value within limits for Cr 267.716		Recovery = 96.45%				
Cu 327.393†	743528.4	4.725 mg/L	0.0057	4.725 mg/L	0.0057	0.12%
QC value within limits for Cu 327.393		Recovery = 94.49%				
Fe 238.204†	469.2	4.528 mg/L	0.0266	4.528 mg/L	0.0266	0.59%
QC value within limits for Fe 238.204		Recovery = 90.57%				
K 766.490†	15051.2	9.702 mg/L	0.0229	9.702 mg/L	0.0229	0.24%
QC value within limits for K 766.490		Recovery = 97.02%				
Mg 285.213†	91467.8	9.600 mg/L	0.0346	9.600 mg/L	0.0346	0.36%
QC value within limits for Mg 285.213		Recovery = 96.00%				
Mn 257.610†	27858.4	4.720 mg/L	0.0177	4.720 mg/L	0.0177	0.38%
QC value within limits for Mn 257.610		Recovery = 94.39%				
Mo 202.031†	109902.5	4.800 mg/L	0.0038	4.800 mg/L	0.0038	0.08%
QC value within limits for Mo 202.031		Recovery = 96.01%				
Na 589.592†	62387.5	9.852 mg/L	0.0153	9.852 mg/L	0.0153	0.16%
QC value within limits for Na 589.592		Recovery = 98.52%				
Ni 231.604†	223983.6	4.809 mg/L	0.0082	4.809 mg/L	0.0082	0.17%
QC value within limits for Ni 231.604		Recovery = 96.19%				
Pb 220.353†	33976.0	4.825 mg/L	0.0677	4.825 mg/L	0.0677	1.40%
QC value within limits for Pb 220.353		Recovery = 96.50%				
Sb 206.836†	17084.0	4.605 mg/L	0.0699	4.605 mg/L	0.0699	1.52%
QC value within limits for Sb 206.836		Recovery = 92.11%				
Se 196.026†	12200.0	4.649 mg/L	0.0773	4.649 mg/L	0.0773	1.66%
QC value within limits for Se 196.026		Recovery = 92.98%				
Sn 189.927†	32925.1	4.858 mg/L	0.0804	4.858 mg/L	0.0804	1.65%
QC value within limits for Sn 189.927		Recovery = 97.16%				
Ti 337.279†	83832.2	4.728 mg/L	0.0084	4.728 mg/L	0.0084	0.18%
QC value within limits for Ti 337.279		Recovery = 94.55%				
Tl 351.924†	12959.6	3.015 mg/L	0.0449	3.015 mg/L	0.0449	1.49%
QC value greater than the upper limit for Tl 351.924		Recovery = 120.59%				
V 290.880†	382875.0	4.953 mg/L	0.0038	4.953 mg/L	0.0038	0.08%
QC value within limits for V 290.880		Recovery = 99.07%				
Zn 206.200†	199194.4	4.928 mg/L	0.0053	4.928 mg/L	0.0053	0.11%
QC value within limits for Zn 206.200		Recovery = 98.57%				
Zr 343.823†	1347693.3	4.805 mg/L	0.0054	4.805 mg/L	0.0054	0.11%
QC Failed. Continue with analysis.						

Sequence No.: 66

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 6:18:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	143426.1	95.7 %	0.48			0.51%
Y axial	3092051.3	98.1 %	0.63			0.64%
Ag 328.068†	657.2	0.0077 mg/L	0.00178	0.0077 mg/L	0.00178	23.05%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 396.153†	3.5	0.0008 mg/L	0.00383	0.0008 mg/L	0.00383	485.65%
QC value within limits for Al 396.153		Recovery = Not calculated				
As 188.979†	-3.8	-0.0020 mg/L	0.00335	-0.0020 mg/L	0.00335	168.28%
QC value within limits for As 188.979		Recovery = Not calculated				
B 208.889†	365.2	0.0301 mg/L	0.00182	0.0301 mg/L	0.00182	6.02%
QC value within limits for B 208.889		Recovery = Not calculated				
Ba 233.527†	17.7	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	62.95%

QC value within limits for Ba 233.527	Recovery = Not calculated		
Be 313.107†	99.4 0.0006 mg/L	0.00017	0.0006 mg/L 27.74%
QC value within limits for Be 313.107	Recovery = Not calculated		
Ca 317.933†	19.4 0.0040 mg/L	0.00053	0.0040 mg/L 13.04%
QC value within limits for Ca 317.933	Recovery = Not calculated		
Cd 228.802†	18.6 0.0004 mg/L	0.00009	0.0004 mg/L 20.87%
QC value within limits for Cd 228.802	Recovery = Not calculated		
Co 228.616†	16.3 0.0003 mg/L	0.00021	0.0003 mg/L 60.25%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	29.0 0.0004 mg/L	0.00009	0.0004 mg/L 22.00%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 327.393†	242.5 0.0015 mg/L	0.00007	0.0015 mg/L 4.38%
QC value within limits for Cu 327.393	Recovery = Not calculated		
Fe 238.204†	3.1 0.0295 mg/L	0.02527	0.0295 mg/L 85.57%
QC value within limits for Fe 238.204	Recovery = Not calculated		
K 766.490†	-44.5 -0.0287 mg/L	0.03605	-0.0287 mg/L 125.72%
QC value within limits for K 766.490	Recovery = Not calculated		
Mg 285.213†	43.9 0.0047 mg/L	0.00070	0.0047 mg/L 14.98%
QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610†	-0.1 -0.0000 mg/L	0.00049	-0.0000 mg/L >999.9%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	25.6 0.0011 mg/L	0.00004	0.0011 mg/L 3.94%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592†	329.7 0.0521 mg/L	0.00401	0.0521 mg/L 7.69%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604†	7.8 0.0002 mg/L	0.00002	0.0002 mg/L 9.18%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353†	32.1 0.0045 mg/L	0.00175	0.0045 mg/L 38.61%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836†	14.1 0.0039 mg/L	0.00333	0.0039 mg/L 86.25%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.7 0.0003 mg/L	0.00212	0.0003 mg/L 778.84%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927†	4.4 0.0006 mg/L	0.00054	0.0006 mg/L 84.23%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279†	4.1 0.0002 mg/L	0.00051	0.0002 mg/L 222.17%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924†	-8.0 -0.0019 mg/L	0.00450	-0.0019 mg/L 242.49%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880†	4.9 0.0001 mg/L	0.00019	0.0001 mg/L 215.89%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200†	62.1 0.0015 mg/L	0.00030	0.0015 mg/L 19.34%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823†	86.5 0.0003 mg/L	0.00008	0.0003 mg/L 24.78%

All analyte(s) passed QC.

Sequence No.: 1

Sample ID: SEQ-ICV @2211094

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2023 7:00:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Sequence No.: 67

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt: B, TI failed; 04/12/23 ATP

Dilution:

Wash Time (before sample):

Autosampler Location: 5

Date Collected: 4/11/2023 7:23:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145791.0	97.3 %		1.74			1.79%
Y axial	3122907.1	99.0 %		0.78			0.79%
Ag 328.068†	213525.4	2.489 mg/L		0.0205	2.489 mg/L	0.0205	0.82%
QC value within limits for Ag 328.068		Recovery = 99.55%					
Al 396.153†	40927.0	9.357 mg/L		0.0303	9.357 mg/L	0.0303	0.32%
QC value within limits for Al 396.153		Recovery = 93.57%					
As 188.979†	8965.7	4.740 mg/L		0.0271	4.740 mg/L	0.0271	0.57%
QC value within limits for As 188.979		Recovery = 94.80%					
B 208.889†	57460.1	4.497 mg/L		0.0205	4.497 mg/L	0.0205	0.46%
QC value less than the lower limit for B 208.889		Recovery = 89.94%					
Ba 233.527†	497260.1	4.870 mg/L		0.0080	4.870 mg/L	0.0080	0.16%
QC value within limits for Ba 233.527		Recovery = 97.41%					
Be 313.107†	771626.8	4.639 mg/L		0.0102	4.639 mg/L	0.0102	0.22%
QC value within limits for Be 313.107		Recovery = 92.79%					
Ca 317.933†	45113.7	9.373 mg/L		0.0271	9.373 mg/L	0.0271	0.29%
QC value within limits for Ca 317.933		Recovery = 93.73%					
Cd 228.802†	224136.4	4.825 mg/L		0.0074	4.825 mg/L	0.0074	0.15%
QC value within limits for Cd 228.802		Recovery = 96.51%					
Co 228.616†	228514.4	4.826 mg/L		0.0075	4.826 mg/L	0.0075	0.16%
QC value within limits for Co 228.616		Recovery = 96.52%					
Cr 267.716†	360681.1	4.850 mg/L		0.0105	4.850 mg/L	0.0105	0.22%
QC value within limits for Cr 267.716		Recovery = 97.00%					
Cu 327.393†	744165.0	4.729 mg/L		0.0080	4.729 mg/L	0.0080	0.17%
QC value within limits for Cu 327.393		Recovery = 94.57%					
Fe 238.204†	467.4	4.512 mg/L		0.1064	4.512 mg/L	0.1064	2.36%
QC value within limits for Fe 238.204		Recovery = 90.24%					
K 766.490†	14990.5	9.663 mg/L		0.0366	9.663 mg/L	0.0366	0.38%
QC value within limits for K 766.490		Recovery = 96.63%					
Mg 285.213†	90606.5	9.509 mg/L		0.0282	9.509 mg/L	0.0282	0.30%
QC value within limits for Mg 285.213		Recovery = 95.09%					
Mn 257.610†	27768.7	4.704 mg/L		0.0101	4.704 mg/L	0.0101	0.21%
QC value within limits for Mn 257.610		Recovery = 94.09%					
Mo 202.031†	110084.8	4.808 mg/L		0.0067	4.808 mg/L	0.0067	0.14%
QC value within limits for Mo 202.031		Recovery = 96.17%					
Na 589.592†	61749.3	9.751 mg/L		0.0330	9.751 mg/L	0.0330	0.34%
QC value within limits for Na 589.592		Recovery = 97.51%					
Ni 231.604†	226081.0	4.854 mg/L		0.0102	4.854 mg/L	0.0102	0.21%
QC value within limits for Ni 231.604		Recovery = 97.09%					
Pb 220.353†	34254.7	4.864 mg/L		0.0288	4.864 mg/L	0.0288	0.59%
QC value within limits for Pb 220.353		Recovery = 97.29%					
Sb 206.836†	17069.0	4.601 mg/L		0.0297	4.601 mg/L	0.0297	0.65%
QC value within limits for Sb 206.836		Recovery = 92.01%					
Se 196.026†	12294.4	4.685 mg/L		0.0184	4.685 mg/L	0.0184	0.39%
QC value within limits for Se 196.026		Recovery = 93.70%					
Sn 189.927†	32995.7	4.868 mg/L		0.0282	4.868 mg/L	0.0282	0.58%
QC value within limits for Sn 189.927		Recovery = 97.36%					
Ti 337.279†	83748.2	4.723 mg/L		0.0051	4.723 mg/L	0.0051	0.11%
QC value within limits for Ti 337.279		Recovery = 94.46%					

Tl 351.924†	13072.9	3.041 mg/L	0.0170	3.041 mg/L	0.0170	0.56%
QC value greater than the upper limit for Tl 351.924 Recovery = 121.66%						
V 290.880†	382127.5	4.944 mg/L	0.0065	4.944 mg/L	0.0065	0.13%
QC value within limits for V 290.880 Recovery = 98.88%						
Zn 206.200†	200671.3	4.965 mg/L	0.0115	4.965 mg/L	0.0115	0.23%
QC value within limits for Zn 206.200 Recovery = 99.30%						
Zr 343.823†	1346387.4	4.800 mg/L	0.0060	4.800 mg/L	0.0060	0.13%
QC Failed. Continue with analysis.						

Sequence No.: 68

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 7:30:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147191.8	98.2 %	0.50			0.51%
Y axial	3170928.3	101 %	0.66			0.65%
Ag 328.068†	178.5	0.0021 mg/L	0.00122	0.0021 mg/L	0.00122	58.18%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	5.1	0.0012 mg/L	0.00110	0.0012 mg/L	0.00110	95.32%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-3.6	-0.0019 mg/L	0.00174	-0.0019 mg/L	0.00174	92.86%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	130.5	0.0107 mg/L	0.00045	0.0107 mg/L	0.00045	4.21%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	18.6	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	28.69%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	45.5	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	7.99%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	2.8	0.0006 mg/L	0.00228	0.0006 mg/L	0.00228	387.06%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	12.0	0.0003 mg/L	0.00014	0.0003 mg/L	0.00014	52.35%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	3.7	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	131.68%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	19.6	0.0003 mg/L	0.00018	0.0003 mg/L	0.00018	69.79%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	190.6	0.0012 mg/L	0.00028	0.0012 mg/L	0.00028	22.84%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	1.5	0.0143 mg/L	0.01295	0.0143 mg/L	0.01295	90.71%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	14.7	0.0095 mg/L	0.00675	0.0095 mg/L	0.00675	71.27%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	5.1	0.0005 mg/L	0.00051	0.0005 mg/L	0.00051	94.12%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	2.0	0.0003 mg/L	0.00047	0.0003 mg/L	0.00047	135.53%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	17.1	0.0007 mg/L	0.00025	0.0007 mg/L	0.00025	33.19%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	208.1	0.0329 mg/L	0.01383	0.0329 mg/L	0.01383	42.09%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-1.3	-0.0000 mg/L	0.00014	-0.0000 mg/L	0.00014	480.67%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	15.9	0.0022 mg/L	0.00059	0.0022 mg/L	0.00059	26.15%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	7.9	0.0021 mg/L	0.00144	0.0021 mg/L	0.00144	67.19%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.2	0.0020 mg/L	0.00143	0.0020 mg/L	0.00143	72.04%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	7.5	0.0011 mg/L	0.00102	0.0011 mg/L	0.00102	92.58%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	17.7	0.0010 mg/L	0.00047	0.0010 mg/L	0.00047	47.10%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	22.4	0.0053 mg/L	0.00327	0.0053 mg/L	0.00327	62.08%

QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† -39.8 -0.0005 mg/L 0.00019 -0.0005 mg/L 0.00019 39.79%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 43.1 0.0011 mg/L 0.00013 0.0011 mg/L 0.00013 12.60%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† 52.8 0.0002 mg/L 0.00012 0.0002 mg/L 0.00012 61.32%
All analyte(s) passed QC.

Sequence No.: 69

Sample ID: B336863-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 76

Date Collected: 4/11/2023 7:36:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	146548.8	97.8	%	0.95			0.98%
Y axial	3177936.0	101	%	1.45			1.44%
Ag 328.068†	33.4	0.0004	mg/L	0.00019	0.0004 mg/L	0.00019	49.85%
Al 396.153†	24.0	0.0056	mg/L	0.00417	0.0056 mg/L	0.00417	74.56%
As 188.979†	-5.1	-0.0026	mg/L	0.00090	-0.0026 mg/L	0.00090	35.10%
B 208.889†	125.8	0.0104	mg/L	0.00108	0.0104 mg/L	0.00108	10.43%
Ba 233.527†	2.0	0.0000	mg/L	0.00008	0.0000 mg/L	0.00008	418.70%
Be 313.107†	-15.9	-0.0001	mg/L	0.00004	-0.0001 mg/L	0.00004	45.54%
Ca 317.933†	242.4	0.0504	mg/L	0.00385	0.0504 mg/L	0.00385	7.65%
Cd 228.802†	9.6	0.0002	mg/L	0.00021	0.0002 mg/L	0.00021	96.08%
Co 228.616†	-7.1	-0.0001	mg/L	0.00029	-0.0001 mg/L	0.00029	193.82%
Cr 267.716†	678.4	0.0091	mg/L	0.00036	0.0091 mg/L	0.00036	3.95%
Cu 327.393†	489.5	0.0031	mg/L	0.00030	0.0031 mg/L	0.00030	9.81%
Fe 238.204†	1.5	0.0146	mg/L	0.02203	0.0146 mg/L	0.02203	150.90%
K 766.490†	29.5	0.0190	mg/L	0.03692	0.0190 mg/L	0.03692	194.30%
Mg 285.213†	125.8	0.0133	mg/L	0.00032	0.0133 mg/L	0.00032	2.40%
Mn 257.610†	0.4	0.0001	mg/L	0.00088	0.0001 mg/L	0.00088	>999.9%
Mo 202.031†	2.4	0.0001	mg/L	0.00021	0.0001 mg/L	0.00021	192.39%
Na 589.592†	306.1	0.0483	mg/L	0.00083	0.0483 mg/L	0.00083	1.72%
Ni 231.604†	8.1	0.0002	mg/L	0.00014	0.0002 mg/L	0.00014	82.88%
Pb 220.353†	16.1	0.0023	mg/L	0.00151	0.0023 mg/L	0.00151	66.09%
Sb 206.836†	17.1	0.0045	mg/L	0.00212	0.0045 mg/L	0.00212	47.00%
Se 196.026†	11.7	0.0045	mg/L	0.00138	0.0045 mg/L	0.00138	30.99%
Sn 189.927†	27.5	0.0040	mg/L	0.00033	0.0040 mg/L	0.00033	8.28%
Ti 337.279†	0.5	0.0000	mg/L	0.00065	0.0000 mg/L	0.00065	>999.9%
Tl 351.924†	46.6	0.0109	mg/L	0.00818	0.0109 mg/L	0.00818	74.74%
V 290.880†	-50.4	-0.0006	mg/L	0.00029	-0.0006 mg/L	0.00029	44.67%
Zn 206.200†	124.1	0.0031	mg/L	0.00026	0.0031 mg/L	0.00026	8.41%
Zr 343.823†	153.5	0.0005	mg/L	0.00019	0.0005 mg/L	0.00019	35.31%

Sequence No.: 70

Sample ID: B336863-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 77

Date Collected: 4/11/2023 7:42:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	142813.1	95.3	%	0.48			0.50%
Y axial	3134704.6	99.4	%	0.62			0.62%
Ag 328.068†	47746.1	0.5603	mg/L	0.00427	0.5603 mg/L	0.00427	0.76%
Al 396.153†	2281.0	0.5165	mg/L	0.00463	0.5165 mg/L	0.00463	0.90%
As 188.979†	869.1	0.4604	mg/L	0.00550	0.4604 mg/L	0.00550	1.19%
B 208.889†	11502.0	0.9238	mg/L	0.00750	0.9238 mg/L	0.00750	0.81%
Ba 233.527†	53215.8	0.5212	mg/L	0.00251	0.5212 mg/L	0.00251	0.48%
Be 313.107†	84437.1	0.5073	mg/L	0.00125	0.5073 mg/L	0.00125	0.25%

Ca 317.933†	19311.0	4.012 mg/L	0.0020	4.012 mg/L	0.0020	0.05%
Cd 228.802†	23164.0	0.4989 mg/L	0.00100	0.4989 mg/L	0.00100	0.20%
Co 228.616†	24346.3	0.5142 mg/L	0.00154	0.5142 mg/L	0.00154	0.30%
Cr 267.716†	39337.5	0.5290 mg/L	0.00208	0.5290 mg/L	0.00208	0.39%
Cu 327.393†	164489.8	1.043 mg/L	0.0018	1.043 mg/L	0.0018	0.17%
Fe 238.204†	407.1	3.912 mg/L	0.0371	3.912 mg/L	0.0371	0.95%
K 766.490†	6274.6	4.045 mg/L	0.0198	4.045 mg/L	0.0198	0.49%
Mg 285.213†	37494.6	3.979 mg/L	0.0080	3.979 mg/L	0.0080	0.20%
Mn 257.610†	2974.2	0.5039 mg/L	0.00410	0.5039 mg/L	0.00410	0.81%
Mo 202.031†	11738.8	0.5127 mg/L	0.00491	0.5127 mg/L	0.00491	0.96%
Na 589.592†	26377.2	4.165 mg/L	0.0113	4.165 mg/L	0.0113	0.27%
Ni 231.604†	24182.2	0.5190 mg/L	0.00287	0.5190 mg/L	0.00287	0.55%
Pb 220.353†	3656.5	0.5186 mg/L	0.00574	0.5186 mg/L	0.00574	1.11%
Sb 206.836†	1745.6	0.4696 mg/L	0.00654	0.4696 mg/L	0.00654	1.39%
Se 196.026†	1259.0	0.4798 mg/L	0.00226	0.4798 mg/L	0.00226	0.47%
Sn 189.927†	3499.0	0.5163 mg/L	0.00585	0.5163 mg/L	0.00585	1.13%
Ti 337.279†	9055.5	0.5109 mg/L	0.00154	0.5109 mg/L	0.00154	0.30%
Tl 351.924†	2637.9	0.6185 mg/L	0.00752	0.6185 mg/L	0.00752	1.22%
V 290.880†	40991.1	0.5289 mg/L	0.00264	0.5289 mg/L	0.00264	0.50%
Zn 206.200†	41390.8	1.022 mg/L	0.0050	1.022 mg/L	0.0050	0.49%
Zr 343.823†	153.5	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.83%

Sequence No.: 71

Sample ID: B336863-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 78

Date Collected: 4/11/2023 7:49:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	144831.6	96.6	%	1.33			1.38%
Y axial	3188089.8	101	%	1.10			1.09%
Ag 328.068†	46226.5	0.5424	mg/L	0.00376	0.5424 mg/L	0.00376	0.69%
Al 396.153†	2225.9	0.5039	mg/L	0.00407	0.5039 mg/L	0.00407	0.81%
As 188.979†	852.7	0.4517	mg/L	0.00396	0.4517 mg/L	0.00396	0.88%
B 208.889†	11278.2	0.9059	mg/L	0.01102	0.9059 mg/L	0.01102	1.22%
Ba 233.527†	51603.4	0.5054	mg/L	0.01010	0.5054 mg/L	0.01010	2.00%
Be 313.107†	82766.1	0.4973	mg/L	0.00100	0.4973 mg/L	0.00100	0.20%
Ca 317.933†	19008.6	3.949	mg/L	0.0160	3.949 mg/L	0.0160	0.41%
Cd 228.802†	22546.4	0.4856	mg/L	0.00924	0.4856 mg/L	0.00924	1.90%
Co 228.616†	23628.9	0.4990	mg/L	0.01012	0.4990 mg/L	0.01012	2.03%
Cr 267.716†	38160.1	0.5131	mg/L	0.01075	0.5131 mg/L	0.01075	2.09%
Cu 327.393†	159256.9	1.009	mg/L	0.0197	1.009 mg/L	0.0197	1.95%
Fe 238.204†	399.5	3.839	mg/L	0.0264	3.839 mg/L	0.0264	0.69%
K 766.490†	6172.9	3.979	mg/L	0.0117	3.979 mg/L	0.0117	0.29%
Mg 285.213†	36758.7	3.900	mg/L	0.0136	3.900 mg/L	0.0136	0.35%
Mn 257.610†	2925.0	0.4955	mg/L	0.00493	0.4955 mg/L	0.00493	0.99%
Mo 202.031†	11485.5	0.5017	mg/L	0.00619	0.5017 mg/L	0.00619	1.23%
Na 589.592†	25791.8	4.073	mg/L	0.0171	4.073 mg/L	0.0171	0.42%
Ni 231.604†	23401.9	0.5023	mg/L	0.01042	0.5023 mg/L	0.01042	2.07%
Pb 220.353†	3572.0	0.5066	mg/L	0.00624	0.5066 mg/L	0.00624	1.23%
Sb 206.836†	1713.3	0.4610	mg/L	0.00470	0.4610 mg/L	0.00470	1.02%
Se 196.026†	1237.5	0.4716	mg/L	0.00161	0.4716 mg/L	0.00161	0.34%
Sn 189.927†	3429.1	0.5060	mg/L	0.00661	0.5060 mg/L	0.00661	1.31%
Ti 337.279†	8844.7	0.4990	mg/L	0.00199	0.4990 mg/L	0.00199	0.40%
Tl 351.924†	2607.8	0.6115	mg/L	0.00711	0.6115 mg/L	0.00711	1.16%
V 290.880†	39668.6	0.5120	mg/L	0.01110	0.5120 mg/L	0.01110	2.17%
Zn 206.200†	40150.4	0.9913	mg/L	0.02025	0.9913 mg/L	0.02025	2.04%
Zr 343.823†	64.9	0.0001	mg/L	0.00009	0.0001 mg/L	0.00009	69.34%

Sequence No.: 72

Sample ID: B336863-BS3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 79

Date Collected: 4/11/2023 7:57:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336863-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145592.7	97.1	%	0.37			0.38%
Y axial	3171858.0	101	%	0.80			0.80%
Ag 328.068†	46909.9	0.5504	mg/L	0.00354	0.5504 mg/L	0.00354	0.64%
Al 396.153†	2219.1	0.5022	mg/L	0.00457	0.5022 mg/L	0.00457	0.91%
As 188.979†	856.1	0.4535	mg/L	0.00363	0.4535 mg/L	0.00363	0.80%
B 208.889†	11353.7	0.9119	mg/L	0.00867	0.9119 mg/L	0.00867	0.95%
Ba 233.527†	52513.0	0.5143	mg/L	0.00975	0.5143 mg/L	0.00975	1.90%
Be 313.107†	81802.7	0.4915	mg/L	0.00066	0.4915 mg/L	0.00066	0.13%
Ca 317.933†	18751.3	3.896	mg/L	0.0156	3.896 mg/L	0.0156	0.40%
Cd 228.802†	22863.3	0.4925	mg/L	0.00859	0.4925 mg/L	0.00859	1.74%
Co 228.616†	24082.3	0.5086	mg/L	0.00824	0.5086 mg/L	0.00824	1.62%
Cr 267.716†	38568.2	0.5186	mg/L	0.00707	0.5186 mg/L	0.00707	1.36%
Cu 327.393†	161679.4	1.025	mg/L	0.0181	1.025 mg/L	0.0181	1.77%
Fe 238.204†	399.9	3.843	mg/L	0.0112	3.843 mg/L	0.0112	0.29%
K 766.490†	6082.6	3.921	mg/L	0.0185	3.921 mg/L	0.0185	0.47%
Mg 285.213†	36315.4	3.853	mg/L	0.0013	3.853 mg/L	0.0013	0.03%
Mn 257.610†	2898.1	0.4910	mg/L	0.00240	0.4910 mg/L	0.00240	0.49%
Mo 202.031†	11574.1	0.5056	mg/L	0.00412	0.5056 mg/L	0.00412	0.82%
Na 589.592†	25548.3	4.034	mg/L	0.0071	4.034 mg/L	0.0071	0.18%
Ni 231.604†	23847.9	0.5118	mg/L	0.00830	0.5118 mg/L	0.00830	1.62%
Pb 220.353†	3586.7	0.5087	mg/L	0.00435	0.5087 mg/L	0.00435	0.86%
Sb 206.836†	1722.9	0.4636	mg/L	0.00149	0.4636 mg/L	0.00149	0.32%
Se 196.026†	1242.5	0.4735	mg/L	0.00766	0.4735 mg/L	0.00766	1.62%
Sn 189.927†	3443.1	0.5080	mg/L	0.00558	0.5080 mg/L	0.00558	1.10%
Ti 337.279†	8793.3	0.4961	mg/L	0.00248	0.4961 mg/L	0.00248	0.50%
Tl 351.924†	2608.1	0.6116	mg/L	0.00968	0.6116 mg/L	0.00968	1.58%
V 290.880†	40291.4	0.5200	mg/L	0.01044	0.5200 mg/L	0.01044	2.01%
Zn 206.200†	40799.2	1.007	mg/L	0.0193	1.007 mg/L	0.0193	1.91%
Zr 343.823†	50.5	0.0001	mg/L	0.00001	0.0001 mg/L	0.00001	17.48%

Sequence No.: 73

Sample ID: B336863-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 80

Date Collected: 4/11/2023 8:05:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	143048.6	95.4	%	2.87			3.01%
Y axial	3155559.8	100	%	0.60			0.60%
Ag 328.068†	46345.4	0.5438	mg/L	0.00656	0.5438 mg/L	0.00656	1.21%
Al 396.153†	2251.7	0.5099	mg/L	0.01581	0.5099 mg/L	0.01581	3.10%
As 188.979†	849.7	0.4501	mg/L	0.00388	0.4501 mg/L	0.00388	0.86%
B 208.889†	11290.7	0.9069	mg/L	0.00574	0.9069 mg/L	0.00574	0.63%
Ba 233.527†	51721.0	0.5066	mg/L	0.00608	0.5066 mg/L	0.00608	1.20%
Be 313.107†	82898.2	0.4981	mg/L	0.01024	0.4981 mg/L	0.01024	2.06%
Ca 317.933†	19036.2	3.955	mg/L	0.0768	3.955 mg/L	0.0768	1.94%
Cd 228.802†	22616.2	0.4871	mg/L	0.00503	0.4871 mg/L	0.00503	1.03%
Co 228.616†	23662.3	0.4997	mg/L	0.00523	0.4997 mg/L	0.00523	1.05%
Cr 267.716†	37930.9	0.5101	mg/L	0.00523	0.5101 mg/L	0.00523	1.03%
Cu 327.393†	159733.2	1.012	mg/L	0.0092	1.012 mg/L	0.0092	0.91%
Fe 238.204†	409.7	3.937	mg/L	0.1765	3.937 mg/L	0.1765	4.48%
K 766.490†	6167.3	3.975	mg/L	0.0725	3.975 mg/L	0.0725	1.82%
Mg 285.213†	36862.7	3.912	mg/L	0.0887	3.912 mg/L	0.0887	2.27%
Mn 257.610†	2966.5	0.5026	mg/L	0.01611	0.5026 mg/L	0.01611	3.20%
Mo 202.031†	11495.1	0.5021	mg/L	0.00305	0.5021 mg/L	0.00305	0.61%
Na 589.592†	25859.0	4.084	mg/L	0.0980	4.084 mg/L	0.0980	2.40%
Ni 231.604†	23593.5	0.5064	mg/L	0.00480	0.5064 mg/L	0.00480	0.95%
Pb 220.353†	3570.1	0.5064	mg/L	0.00339	0.5064 mg/L	0.00339	0.67%
Sb 206.836†	1712.3	0.4608	mg/L	0.00153	0.4608 mg/L	0.00153	0.33%

Se 196.026†	1232.0	0.4695 mg/L	0.00315	0.4695 mg/L	0.00315	0.67%
Sn 189.927†	3428.9	0.5059 mg/L	0.00186	0.5059 mg/L	0.00186	0.37%
Ti 337.279†	8901.1	0.5022 mg/L	0.00887	0.5022 mg/L	0.00887	1.77%
Tl 351.924†	2599.9	0.6097 mg/L	0.00055	0.6097 mg/L	0.00055	0.09%
V 290.880†	40144.0	0.5180 mg/L	0.00685	0.5180 mg/L	0.00685	1.32%
Zn 206.200†	40332.3	0.9957 mg/L	0.01067	0.9957 mg/L	0.01067	1.07%
Zr 343.823†	66.7	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	37.77%

Sequence No.: 74

Sample ID: B336863-BS5

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 81

Date Collected: 4/11/2023 8:12:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BS5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	143788.2	95.9 %		1.15			1.20%
Y axial	3097961.1	98.2 %		0.53			0.54%
Ag 328.068†	47478.0	0.5571 mg/L		0.00586	0.5571 mg/L	0.00586	1.05%
Al 396.153†	2259.1	0.5113 mg/L		0.00264	0.5113 mg/L	0.00264	0.52%
As 188.979†	871.2	0.4615 mg/L		0.00255	0.4615 mg/L	0.00255	0.55%
B 208.889†	11572.2	0.9295 mg/L		0.00444	0.9295 mg/L	0.00444	0.48%
Ba 233.527†	53306.2	0.5221 mg/L		0.00467	0.5221 mg/L	0.00467	0.89%
Be 313.107†	84187.7	0.5058 mg/L		0.00136	0.5058 mg/L	0.00136	0.27%
Ca 317.933†	19338.2	4.018 mg/L		0.0193	4.018 mg/L	0.0193	0.48%
Cd 228.802†	23308.2	0.5021 mg/L		0.00474	0.5021 mg/L	0.00474	0.94%
Co 228.616†	24523.5	0.5179 mg/L		0.00544	0.5179 mg/L	0.00544	1.05%
Cr 267.716†	39246.7	0.5277 mg/L		0.00573	0.5277 mg/L	0.00573	1.09%
Cu 327.393†	164754.1	1.044 mg/L		0.0124	1.044 mg/L	0.0124	1.18%
Fe 238.204†	405.5	3.897 mg/L		0.0614	3.897 mg/L	0.0614	1.58%
K 766.490†	6292.0	4.056 mg/L		0.0085	4.056 mg/L	0.0085	0.21%
Mg 285.213†	37425.6	3.971 mg/L		0.0024	3.971 mg/L	0.0024	0.06%
Mn 257.610†	2924.2	0.4954 mg/L		0.00694	0.4954 mg/L	0.00694	1.40%
Mo 202.031†	11770.5	0.5141 mg/L		0.00222	0.5141 mg/L	0.00222	0.43%
Na 589.592†	26244.4	4.144 mg/L		0.0148	4.144 mg/L	0.0148	0.36%
Ni 231.604†	24321.2	0.5220 mg/L		0.00466	0.5220 mg/L	0.00466	0.89%
Pb 220.353†	3664.6	0.5198 mg/L		0.00262	0.5198 mg/L	0.00262	0.50%
Sb 206.836†	1761.3	0.4740 mg/L		0.00188	0.4740 mg/L	0.00188	0.40%
Se 196.026†	1262.6	0.4811 mg/L		0.00352	0.4811 mg/L	0.00352	0.73%
Sn 189.927†	3514.8	0.5186 mg/L		0.00304	0.5186 mg/L	0.00304	0.59%
Ti 337.279†	9052.5	0.5108 mg/L		0.00051	0.5108 mg/L	0.00051	0.10%
Tl 351.924†	2671.4	0.6264 mg/L		0.00872	0.6264 mg/L	0.00872	1.39%
V 290.880†	41259.8	0.5324 mg/L		0.00412	0.5324 mg/L	0.00412	0.77%
Zn 206.200†	41462.9	1.024 mg/L		0.0090	1.024 mg/L	0.0090	0.88%
Zr 343.823†	37.1	0.0000 mg/L		0.00005	0.0000 mg/L	0.00005	201.28%

Sequence No.: 75

Sample ID: B336862-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 82

Date Collected: 4/11/2023 8:20:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336862-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	148035.6	98.8 %		0.94			0.95%
Y axial	3156709.2	100 %		1.66			1.66%
Ag 328.068†	-10.8	-0.0002 mg/L		0.00021	-0.0002 mg/L	0.00021	101.11%
Al 396.153†	65.6	0.0151 mg/L		0.00416	0.0151 mg/L	0.00416	27.63%
As 188.979†	-119.6	0.0007 mg/L		0.00081	0.0007 mg/L	0.00081	113.40%
B 208.889†	130.5	0.0107 mg/L		0.00087	0.0107 mg/L	0.00087	8.10%
Ba 233.527†	969.0	0.0095 mg/L		0.00029	0.0095 mg/L	0.00029	3.02%
Be 313.107†	137.6	0.0009 mg/L		0.00017	0.0009 mg/L	0.00017	19.98%

Ca 317.933†	553.5	0.1150 mg/L	0.00439	0.1150 mg/L	0.00439	3.81%
Cd 228.802†	6.4	0.0010 mg/L	0.00011	0.0010 mg/L	0.00011	10.92%
Co 228.616†	5381.9	-0.0037 mg/L	0.00291	-0.0037 mg/L	0.00291	79.21%
Cr 267.716†	197.4	0.0027 mg/L	0.00007	0.0027 mg/L	0.00007	2.50%
Cu 327.393†	-7760.8	0.0089 mg/L	0.00114	0.0089 mg/L	0.00114	12.82%
Fe 238.204†	2.4	-0.0108 mg/L	0.03439	-0.0108 mg/L	0.03439	318.27%
K 766.490†	4448.1	2.867 mg/L	0.0248	2.867 mg/L	0.0248	0.86%
Mg 285.213†	159.8	0.0165 mg/L	0.00102	0.0165 mg/L	0.00102	6.20%
Mn 257.610†	2.8	0.0005 mg/L	0.00068	0.0005 mg/L	0.00068	145.00%
Mo 202.031†	28.7	0.0013 mg/L	0.00021	0.0013 mg/L	0.00021	16.97%
Na 589.592†	607.2	0.0959 mg/L	0.00790	0.0959 mg/L	0.00790	8.23%
Ni 231.604†	22.4	0.0003 mg/L	0.00033	0.0003 mg/L	0.00033	127.15%
Pb 220.353†	-179.9	-0.0086 mg/L	0.00159	-0.0086 mg/L	0.00159	18.54%
Sb 206.836†	78.2	-0.0171 mg/L	0.00083	-0.0171 mg/L	0.00083	4.86%
Se 196.026†	-1.6	-0.0007 mg/L	0.00739	-0.0007 mg/L	0.00739	>999.9%
Sn 189.927†	-2428.9	-0.0205 mg/L	0.01188	-0.0205 mg/L	0.01188	58.04%
Ti 337.279†	1135680.2	64.08 mg/L	0.954	64.08 mg/L	0.954	1.49%
Tl 351.924†	1329.8	0.0447 mg/L	0.01130	0.0447 mg/L	0.01130	25.29%
V 290.880†	-146.4	-0.0018 mg/L	0.00028	-0.0018 mg/L	0.00028	15.54%
Zn 206.200†	384.6	0.0095 mg/L	0.00017	0.0095 mg/L	0.00017	1.81%
Zr 343.823†	6558.7	0.0234 mg/L	0.00013	0.0234 mg/L	0.00013	0.55%

Sequence No.: 76

Sample ID: B336862-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 83

Date Collected: 4/11/2023 8:28:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336862-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145260.4	96.9 %	%	0.58			0.60%
Y axial	3083307.4	97.8 %	%	0.40			0.41%
Ag 328.068†	69995.7	0.8214 mg/L	mg/L	0.00139	0.8214 mg/L	0.00139	0.17%
Al 396.153†	253610.7	59.09 mg/L	mg/L	0.636	59.09 mg/L	0.636	1.08%
As 188.979†	3513.0	1.875 mg/L	mg/L	0.0252	1.875 mg/L	0.0252	1.34%
B 208.889†	9900.1	0.7346 mg/L	mg/L	0.00390	0.7346 mg/L	0.00390	0.53%
Ba 233.527†	327720.8	3.209 mg/L	mg/L	0.0015	3.209 mg/L	0.0015	0.05%
Be 313.107†	142852.7	0.8546 mg/L	mg/L	0.00183	0.8546 mg/L	0.00183	0.21%
Ca 317.933†	242158.0	50.31 mg/L	mg/L	0.509	50.31 mg/L	0.509	1.01%
Cd 228.802†	105797.6	2.274 mg/L	mg/L	0.0048	2.274 mg/L	0.0048	0.21%
Co 228.616†	50142.2	1.058 mg/L	mg/L	0.0037	1.058 mg/L	0.0037	0.35%
Cr 267.716†	160494.3	2.159 mg/L	mg/L	0.0024	2.159 mg/L	0.0024	0.11%
Cu 327.393†	237401.9	1.508 mg/L	mg/L	0.0015	1.508 mg/L	0.0015	0.10%
Fe 238.204†	10180.6	97.81 mg/L	mg/L	0.612	97.81 mg/L	0.612	0.63%
K 766.490†	29121.8	18.77 mg/L	mg/L	0.065	18.77 mg/L	0.065	0.35%
Mg 285.213†	193422.7	20.55 mg/L	mg/L	0.078	20.55 mg/L	0.078	0.38%
Mn 257.610†	24868.3	4.213 mg/L	mg/L	0.0183	4.213 mg/L	0.0183	0.43%
Mo 202.031†	36556.9	1.597 mg/L	mg/L	0.0042	1.597 mg/L	0.0042	0.26%
Na 589.592†	30378.2	4.797 mg/L	mg/L	0.0215	4.797 mg/L	0.0215	0.45%
Ni 231.604†	83047.0	1.783 mg/L	mg/L	0.0026	1.783 mg/L	0.0026	0.15%
Pb 220.353†	20268.9	2.875 mg/L	mg/L	0.0216	2.875 mg/L	0.0216	0.75%
Sb 206.836†	433.9	0.0639 mg/L	mg/L	0.01038	0.0639 mg/L	0.01038	16.25%
Se 196.026†	5962.9	2.273 mg/L	mg/L	0.0080	2.273 mg/L	0.0080	0.35%
Sn 189.927†	1491.4	0.2238 mg/L	mg/L	0.00420	0.2238 mg/L	0.00420	1.88%
Ti 337.279†	16531.7	0.9327 mg/L	mg/L	0.02222	0.9327 mg/L	0.02222	2.38%
Tl 351.924†	4473.4	1.110 mg/L	mg/L	0.0131	1.110 mg/L	0.0131	1.18%
V 290.880†	166855.6	2.129 mg/L	mg/L	0.0010	2.129 mg/L	0.0010	0.05%
Zn 206.200†	101143.3	2.494 mg/L	mg/L	0.0040	2.494 mg/L	0.0040	0.16%
Zr 343.823†	17096.8	0.0583 mg/L	mg/L	0.00019	0.0583 mg/L	0.00019	0.33%

Sequence No.: 77

Sample ID: B336862-BS2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 84

Date Collected: 4/11/2023 8:34:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336862-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	144673.0	96.5	%	1.10			1.14%
Y axial	3075702.6	97.5	%	0.84			0.87%
Ag 328.068†	64600.6	0.7581	mg/L	0.00808	0.7581 mg/L	0.00808	1.07%
Al 396.153†	240107.7	55.94	mg/L	0.161	55.94 mg/L	0.161	0.29%
As 188.979†	3252.7	1.736	mg/L	0.0093	1.736 mg/L	0.0093	0.54%
B 208.889†	9498.9	0.7049	mg/L	0.00647	0.7049 mg/L	0.00647	0.92%
Ba 233.527†	303605.2	2.973	mg/L	0.0046	2.973 mg/L	0.0046	0.16%
Be 313.107†	134371.3	0.8038	mg/L	0.00036	0.8038 mg/L	0.00036	0.05%
Ca 317.933†	227202.6	47.21	mg/L	0.107	47.21 mg/L	0.107	0.23%
Cd 228.802†	102544.1	2.205	mg/L	0.0041	2.205 mg/L	0.0041	0.19%
Co 228.616†	47024.5	0.9926	mg/L	0.00407	0.9926 mg/L	0.00407	0.41%
Cr 267.716†	152979.0	2.058	mg/L	0.0007	2.058 mg/L	0.0007	0.04%
Cu 327.393†	226024.7	1.436	mg/L	0.0024	1.436 mg/L	0.0024	0.16%
Fe 238.204†	9478.4	91.06	mg/L	1.288	91.06 mg/L	1.288	1.41%
K 766.490†	27759.7	17.89	mg/L	0.231	17.89 mg/L	0.231	1.29%
Mg 285.213†	182447.4	19.38	mg/L	0.042	19.38 mg/L	0.042	0.22%
Mn 257.610†	22189.2	3.759	mg/L	0.0459	3.759 mg/L	0.0459	1.22%
Mo 202.031†	35038.8	1.530	mg/L	0.0050	1.530 mg/L	0.0050	0.33%
Na 589.592†	27970.7	4.417	mg/L	0.0083	4.417 mg/L	0.0083	0.19%
Ni 231.604†	79006.2	1.696	mg/L	0.0042	1.696 mg/L	0.0042	0.25%
Pb 220.353†	18933.4	2.686	mg/L	0.0165	2.686 mg/L	0.0165	0.62%
Sb 206.836†	418.5	0.0624	mg/L	0.00357	0.0624 mg/L	0.00357	5.71%
Se 196.026†	5627.9	2.145	mg/L	0.0257	2.145 mg/L	0.0257	1.20%
Sn 189.927†	1386.2	0.2084	mg/L	0.00721	0.2084 mg/L	0.00721	3.46%
Ti 337.279†	16546.1	0.9336	mg/L	0.01266	0.9336 mg/L	0.01266	1.36%
Tl 351.924†	4349.7	1.076	mg/L	0.0175	1.076 mg/L	0.0175	1.63%
V 290.880†	158709.1	2.026	mg/L	0.0019	2.026 mg/L	0.0019	0.09%
Zn 206.200†	94299.7	2.326	mg/L	0.0068	2.326 mg/L	0.0068	0.29%
Zr 343.823†	16165.4	0.0551	mg/L	0.00024	0.0551 mg/L	0.00024	0.44%

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Sequence No.: 78

Sample ID: B336862-BS3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 85

Date Collected: 4/11/2023 8:40:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336862-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	144785.9	96.6	%	0.96			0.99%
Y axial	3078142.4	97.6	%	0.85			0.87%
Ag 328.068†	60493.0	0.7099	mg/L	0.00824	0.7099 mg/L	0.00824	1.16%
Al 396.153†	231994.4	54.06	mg/L	0.006	54.06 mg/L	0.006	0.01%
As 188.979†	3084.1	1.647	mg/L	0.0141	1.647 mg/L	0.0141	0.86%
B 208.889†	9027.8	0.6708	mg/L	0.00578	0.6708 mg/L	0.00578	0.86%
Ba 233.527†	288931.4	2.829	mg/L	0.0080	2.829 mg/L	0.0080	0.28%
Be 313.107†	127701.0	0.7639	mg/L	0.00125	0.7639 mg/L	0.00125	0.16%
Ca 317.933†	216760.1	45.04	mg/L	0.067	45.04 mg/L	0.067	0.15%
Cd 228.802†	97147.1	2.089	mg/L	0.0032	2.089 mg/L	0.0032	0.15%
Co 228.616†	44491.7	0.9391	mg/L	0.00130	0.9391 mg/L	0.00130	0.14%
Cr 267.716†	145809.3	1.962	mg/L	0.0033	1.962 mg/L	0.0033	0.17%
Cu 327.393†	211463.4	1.343	mg/L	0.0014	1.343 mg/L	0.0014	0.11%
Fe 238.204†	9147.8	87.88	mg/L	0.937	87.88 mg/L	0.937	1.07%
K 766.490†	26338.9	16.98	mg/L	0.157	16.98 mg/L	0.157	0.93%
Mg 285.213†	178223.9	18.93	mg/L	0.006	18.93 mg/L	0.006	0.03%
Mn 257.610†	21259.8	3.602	mg/L	0.0171	3.602 mg/L	0.0171	0.47%
Mo 202.031†	32908.8	1.437	mg/L	0.0107	1.437 mg/L	0.0107	0.75%
Na 589.592†	26824.3	4.236	mg/L	0.0202	4.236 mg/L	0.0202	0.48%
Ni 231.604†	74752.7	1.605	mg/L	0.0040	1.605 mg/L	0.0040	0.25%
Pb 220.353†	17598.2	2.496	mg/L	0.0191	2.496 mg/L	0.0191	0.77%
Sb 206.836†	405.3	0.0611	mg/L	0.00139	0.0611 mg/L	0.00139	2.27%

Se 196.026†	5303.6	2.022 mg/L	0.0073	2.022 mg/L	0.0073	0.36%
Sn 189.927†	1287.7	0.1937 mg/L	0.00189	0.1937 mg/L	0.00189	0.97%
Ti 337.279†	15719.2	0.8869 mg/L	0.03096	0.8869 mg/L	0.03096	3.49%
Tl 351.924†	4161.2	1.030 mg/L	0.0069	1.030 mg/L	0.0069	0.67%
V 290.880†	151026.3	1.927 mg/L	0.0027	1.927 mg/L	0.0027	0.14%
Zn 206.200†	89570.7	2.209 mg/L	0.0118	2.209 mg/L	0.0118	0.54%
Zr 343.823†	15534.6	0.0530 mg/L	0.00053	0.0530 mg/L	0.00053	1.00%

Sequence No.: 79

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 8:46:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

B, Be, Fe, Sb, Tl failed;
04/12/23 ATP

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147000.5	98.1 %	1.19			1.21%
Y axial	3133643.3	99.4 %	0.67			0.67%
Ag 328.068†	206783.1	2.410 mg/L	0.0262	2.410 mg/L	0.0262	1.09%
QC value within limits for Ag 328.068		Recovery = 96.41%				
Al 396.153†	40193.2	9.192 mg/L	0.0340	9.192 mg/L	0.0340	0.37%
QC value within limits for Al 396.153		Recovery = 91.92%				
As 188.979†	8693.2	4.596 mg/L	0.0146	4.596 mg/L	0.0146	0.32%
QC value within limits for As 188.979		Recovery = 91.92%				
B 208.889†	55514.9	4.345 mg/L	0.0035	4.345 mg/L	0.0035	0.08%
QC value less than the lower limit for B 208.889		Recovery = 86.90%				
Ba 233.527†	480271.2	4.704 mg/L	0.0008	4.704 mg/L	0.0008	0.02%
QC value within limits for Ba 233.527		Recovery = 94.08%				
Be 313.107†	747592.4	4.495 mg/L	0.0125	4.495 mg/L	0.0125	0.28%
QC value less than the lower limit for Be 313.107		Recovery = 89.90%				
Ca 317.933†	43642.0	9.067 mg/L	0.0195	9.067 mg/L	0.0195	0.22%
QC value within limits for Ca 317.933		Recovery = 90.67%				
Cd 228.802†	217715.6	4.687 mg/L	0.0071	4.687 mg/L	0.0071	0.15%
QC value within limits for Cd 228.802		Recovery = 93.74%				
Co 228.616†	220489.9	4.657 mg/L	0.0033	4.657 mg/L	0.0033	0.07%
QC value within limits for Co 228.616		Recovery = 93.13%				
Cr 267.716†	348342.2	4.684 mg/L	0.0023	4.684 mg/L	0.0023	0.05%
QC value within limits for Cr 267.716		Recovery = 93.69%				
Cu 327.393†	725310.7	4.609 mg/L	0.0045	4.609 mg/L	0.0045	0.10%
QC value within limits for Cu 327.393		Recovery = 92.18%				
Fe 238.204†	453.6	4.379 mg/L	0.0784	4.379 mg/L	0.0784	1.79%
QC value less than the lower limit for Fe 238.204		Recovery = 87.57%				
K 766.490†	14632.5	9.432 mg/L	0.0645	9.432 mg/L	0.0645	0.68%
QC value within limits for K 766.490		Recovery = 94.32%				
Mg 285.213†	88418.6	9.280 mg/L	0.0238	9.280 mg/L	0.0238	0.26%
QC value within limits for Mg 285.213		Recovery = 92.80%				
Mn 257.610†	26829.7	4.545 mg/L	0.0272	4.545 mg/L	0.0272	0.60%
QC value within limits for Mn 257.610		Recovery = 90.90%				
Mo 202.031†	106280.0	4.642 mg/L	0.0022	4.642 mg/L	0.0022	0.05%
QC value within limits for Mo 202.031		Recovery = 92.85%				
Na 589.592†	60444.6	9.545 mg/L	0.0352	9.545 mg/L	0.0352	0.37%
QC value within limits for Na 589.592		Recovery = 95.45%				
Ni 231.604†	217711.4	4.675 mg/L	0.0009	4.675 mg/L	0.0009	0.02%
QC value within limits for Ni 231.604		Recovery = 93.49%				
Pb 220.353†	33261.8	4.723 mg/L	0.0238	4.723 mg/L	0.0238	0.50%
QC value within limits for Pb 220.353		Recovery = 94.46%				
Sb 206.836†	16631.7	4.484 mg/L	0.0132	4.484 mg/L	0.0132	0.29%
QC value less than the lower limit for Sb 206.836		Recovery = 89.67%				
Se 196.026†	11911.4	4.539 mg/L	0.0269	4.539 mg/L	0.0269	0.59%
QC value within limits for Se 196.026		Recovery = 90.78%				
Sn 189.927†	31956.5	4.715 mg/L	0.0100	4.715 mg/L	0.0100	0.21%
QC value within limits for Sn 189.927		Recovery = 94.30%				
Ti 337.279†	81251.9	4.582 mg/L	0.0084	4.582 mg/L	0.0084	0.18%
QC value within limits for Ti 337.279		Recovery = 91.64%				
Tl 351.924†	12818.0	2.982 mg/L	0.0058	2.982 mg/L	0.0058	0.20%
QC value greater than the upper limit for Tl 351.924		Recovery = 119.30%				

V 290.880† 370046.8 4.787 mg/L 0.0050 4.787 mg/L 0.0050 0.10%
 QC value within limits for V 290.880 Recovery = 95.75%
 Zn 206.200† 192646.7 4.767 mg/L 0.0029 4.767 mg/L 0.0029 0.06%
 QC value within limits for Zn 206.200 Recovery = 95.33%
 Zr 343.823† 1304673.4 4.651 mg/L 0.0015 4.651 mg/L 0.0015 0.03%
 QC Failed. Continue with analysis.

Sequence No.: 80

Autosampler Location: 1

Sample ID: SEQ-CCB

Date Collected: 4/11/2023 8:53:34 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141171.8	94.2 %	0.74			0.78%
Y axial	3108055.0	98.6 %	0.46			0.46%
Ag 328.068†	47.9	0.0006 mg/L	0.00050	0.0006 mg/L	0.00050	89.92%
QC value within limits for Ag 328.068						Not calculated
Al 396.153†	-3.6	-0.0009 mg/L	0.00151	-0.0009 mg/L	0.00151	171.35%
QC value within limits for Al 396.153						Not calculated
As 188.979†	3.5	0.0018 mg/L	0.00075	0.0018 mg/L	0.00075	40.39%
QC value within limits for As 188.979						Not calculated
B 208.889†	196.1	0.0161 mg/L	0.00036	0.0161 mg/L	0.00036	2.22%
QC value within limits for B 208.889						Not calculated
Ba 233.527†	34.3	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	23.13%
QC value within limits for Ba 233.527						Not calculated
Be 313.107†	100.0	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	19.45%
QC value within limits for Be 313.107						Not calculated
Ca 317.933†	-2.5	-0.0005 mg/L	0.00182	-0.0005 mg/L	0.00182	355.35%
QC value within limits for Ca 317.933						Not calculated
Cd 228.802†	25.8	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	3.72%
QC value within limits for Cd 228.802						Not calculated
Co 228.616†	11.4	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	27.92%
QC value within limits for Co 228.616						Not calculated
Cr 267.716†	29.8	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	51.76%
QC value within limits for Cr 267.716						Not calculated
Cu 327.393†	184.3	0.0012 mg/L	0.00057	0.0012 mg/L	0.00057	49.15%
QC value within limits for Cu 327.393						Not calculated
Fe 238.204†	3.4	0.0326 mg/L	0.01930	0.0326 mg/L	0.01930	59.16%
QC value within limits for Fe 238.204						Not calculated
K 766.490†	32.8	0.0211 mg/L	0.03828	0.0211 mg/L	0.03828	181.21%
QC value within limits for K 766.490						Not calculated
Mg 285.213†	10.6	0.0011 mg/L	0.00046	0.0011 mg/L	0.00046	40.74%
QC value within limits for Mg 285.213						Not calculated
Mn 257.610†	-3.0	-0.0005 mg/L	0.00090	-0.0005 mg/L	0.00090	176.20%
QC value within limits for Mn 257.610						Not calculated
Mo 202.031†	26.3	0.0011 mg/L	0.00028	0.0011 mg/L	0.00028	24.27%
QC value within limits for Mo 202.031						Not calculated
Na 589.592†	87.5	0.0138 mg/L	0.00485	0.0138 mg/L	0.00485	35.09%
QC value within limits for Na 589.592						Not calculated
Ni 231.604†	25.4	0.0005 mg/L	0.00008	0.0005 mg/L	0.00008	14.43%
QC value within limits for Ni 231.604						Not calculated
Pb 220.353†	29.3	0.0042 mg/L	0.00048	0.0042 mg/L	0.00048	11.46%
QC value within limits for Pb 220.353						Not calculated
Sb 206.836†	13.8	0.0038 mg/L	0.00091	0.0038 mg/L	0.00091	24.01%
QC value within limits for Sb 206.836						Not calculated
Se 196.026†	0.2	0.0001 mg/L	0.00122	0.0001 mg/L	0.00122	>999.9%
QC value within limits for Se 196.026						Not calculated
Sn 189.927†	4.4	0.0007 mg/L	0.00101	0.0007 mg/L	0.00101	154.52%
QC value within limits for Sn 189.927						Not calculated
Ti 337.279†	10.0	0.0006 mg/L	0.00084	0.0006 mg/L	0.00084	148.91%
QC value within limits for Ti 337.279						Not calculated
Tl 351.924†	12.4	0.0029 mg/L	0.00555	0.0029 mg/L	0.00555	188.55%
QC value within limits for Tl 351.924						Not calculated
V 290.880†	-31.3	-0.0004 mg/L	0.00009	-0.0004 mg/L	0.00009	23.42%

QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 43.0 0.0011 mg/L 0.00011 0.0011 mg/L 0.00011 9.98%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 80.7 0.0003 mg/L 0.00014 0.0003 mg/L 0.00014 47.34%
 All analyte(s) passed QC.

Sequence No.: 81
 Sample ID: B336862-BS4
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 110

Autosampler Location: 86
 Date Collected: 4/11/2023 8:59:25 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336862-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y radial	147803.4	98.6 %		1.22				1.24%
Y axial	3167022.6	100 %		0.62				0.62%
Ag 328.068†	70405.2	0.8262 mg/L		0.01161	0.8262 mg/L		0.01161	1.41%
Al 396.153†	257042.6	59.89 mg/L		0.630	59.89 mg/L		0.630	1.05%
As 188.979†	3473.7	1.854 mg/L		0.0480	1.854 mg/L		0.0480	2.59%
B 208.889†	9878.8	0.7334 mg/L		0.01014	0.7334 mg/L		0.01014	1.38%
Ba 233.527†	331915.9	3.250 mg/L		0.0070	3.250 mg/L		0.0070	0.22%
Be 313.107†	144355.3	0.8637 mg/L		0.00179	0.8637 mg/L		0.00179	0.21%
Ca 317.933†	247218.7	51.36 mg/L		0.444	51.36 mg/L		0.444	0.87%
Cd 228.802†	111873.8	2.406 mg/L		0.0073	2.406 mg/L		0.0073	0.30%
Co 228.616†	50715.5	1.071 mg/L		0.0103	1.071 mg/L		0.0103	0.96%
Cr 267.716†	162739.6	2.190 mg/L		0.0005	2.190 mg/L		0.0005	0.02%
Cu 327.393†	239203.1	1.519 mg/L		0.0019	1.519 mg/L		0.0019	0.12%
Fe 238.204†	9993.9	96.01 mg/L		0.158	96.01 mg/L		0.158	0.16%
K 766.490†	29347.0	18.92 mg/L		0.075	18.92 mg/L		0.075	0.40%
Mg 285.213†	193662.0	20.57 mg/L		0.045	20.57 mg/L		0.045	0.22%
Mn 257.610†	24006.9	4.067 mg/L		0.0070	4.067 mg/L		0.0070	0.17%
Mo 202.031†	36293.4	1.585 mg/L		0.0187	1.585 mg/L		0.0187	1.18%
Na 589.592†	30604.3	4.833 mg/L		0.0143	4.833 mg/L		0.0143	0.30%
Ni 231.604†	84995.3	1.825 mg/L		0.0041	1.825 mg/L		0.0041	0.23%
Pb 220.353†	20423.7	2.897 mg/L		0.0328	2.897 mg/L		0.0328	1.13%
Sb 206.836†	430.4	0.0626 mg/L		0.00527	0.0626 mg/L		0.00527	8.43%
Se 196.026†	5995.8	2.286 mg/L		0.0340	2.286 mg/L		0.0340	1.49%
Sn 189.927†	1323.9	0.1988 mg/L		0.00768	0.1988 mg/L		0.00768	3.86%
Ti 337.279†	15112.2	0.8527 mg/L		0.03328	0.8527 mg/L		0.03328	3.90%
Tl 351.924†	4625.7	1.144 mg/L		0.0020	1.144 mg/L		0.0020	0.18%
V 290.880†	167531.4	2.137 mg/L		0.0031	2.137 mg/L		0.0031	0.15%
Zn 206.200†	101302.2	2.499 mg/L		0.0037	2.499 mg/L		0.0037	0.15%
Zr 343.823†	17230.9	0.0588 mg/L		0.00175	0.0588 mg/L		0.00175	2.98%

Sequence No.: 82
 Sample ID: B336862-BS5
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 220

Autosampler Location: 87
 Date Collected: 4/11/2023 9:05:14 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336862-BS5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y radial	147683.8	98.5 %		0.93				0.94%
Y axial	3127463.4	99.2 %		0.46				0.47%
Ag 328.068†	64361.2	0.7553 mg/L		0.00762	0.7553 mg/L		0.00762	1.01%
Al 396.153†	226697.9	52.82 mg/L		0.108	52.82 mg/L		0.108	0.20%
As 188.979†	3168.4	1.691 mg/L		0.0158	1.691 mg/L		0.0158	0.93%
B 208.889†	8950.8	0.6636 mg/L		0.00602	0.6636 mg/L		0.00602	0.91%
Ba 233.527†	300599.8	2.943 mg/L		0.0038	2.943 mg/L		0.0038	0.13%
Be 313.107†	133900.1	0.8011 mg/L		0.00116	0.8011 mg/L		0.00116	0.14%
Ca 317.933†	217122.5	45.11 mg/L		0.079	45.11 mg/L		0.079	0.18%
Cd 228.802†	104990.9	2.258 mg/L		0.0045	2.258 mg/L		0.0045	0.20%

Co 228.616†	46914.7	0.9905 mg/L	0.00176	0.9905 mg/L	0.00176	0.18%
Cr 267.716†	151701.4	2.041 mg/L	0.0063	2.041 mg/L	0.0063	0.31%
Cu 327.393†	220082.6	1.398 mg/L	0.0034	1.398 mg/L	0.0034	0.24%
Fe 238.204†	9036.7	86.82 mg/L	1.310	86.82 mg/L	1.310	1.51%
K 766.490†	25911.3	16.70 mg/L	0.165	16.70 mg/L	0.165	0.99%
Mg 285.213†	174789.9	18.57 mg/L	0.013	18.57 mg/L	0.013	0.07%
Mn 257.610†	21825.5	3.697 mg/L	0.0510	3.697 mg/L	0.0510	1.38%
Mo 202.031†	33276.0	1.453 mg/L	0.0111	1.453 mg/L	0.0111	0.77%
Na 589.592†	27693.8	4.373 mg/L	0.0212	4.373 mg/L	0.0212	0.49%
Ni 231.604†	79943.7	1.716 mg/L	0.0016	1.716 mg/L	0.0016	0.09%
Pb 220.353†	18454.5	2.617 mg/L	0.0203	2.617 mg/L	0.0203	0.78%
Sb 206.836†	408.4	0.0610 mg/L	0.00152	0.0610 mg/L	0.00152	2.49%
Se 196.026†	5498.4	2.096 mg/L	0.0130	2.096 mg/L	0.0130	0.62%
Sn 189.927†	1238.6	0.1859 mg/L	0.00135	0.1859 mg/L	0.00135	0.73%
Ti 337.279†	13657.1	0.7706 mg/L	0.05876	0.7706 mg/L	0.05876	7.63%
Tl 351.924†	4349.5	1.074 mg/L	0.0077	1.074 mg/L	0.0077	0.72%
V 290.880†	154612.5	1.973 mg/L	0.0032	1.973 mg/L	0.0032	0.16%
Zn 206.200†	92693.6	2.286 mg/L	0.0049	2.286 mg/L	0.0049	0.21%
Zr 343.823†	15342.0	0.0523 mg/L	0.00036	0.0523 mg/L	0.00036	0.69%

Sequence No.: 83

Sample ID: B336855-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 88

Date Collected: 4/11/2023 9:11:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	138638.0	92.5 %		0.59			0.63%
Y axial	3099929.3	98.3 %		1.51			1.53%
Ag 328.068†	75.8	0.0009 mg/L		0.00011	0.0009 mg/L	0.00011	12.12%
Al 396.153†	57.5	0.0134 mg/L		0.00114	0.0134 mg/L	0.00114	8.50%
As 188.979†	-1.3	-0.0007 mg/L		0.00191	-0.0007 mg/L	0.00191	282.80%
B 208.889†	150.2	0.0124 mg/L		0.00055	0.0124 mg/L	0.00055	4.48%
Ba 233.527†	18.9	0.0002 mg/L		0.00013	0.0002 mg/L	0.00013	69.76%
Be 313.107†	7.3	0.0000 mg/L		0.00004	0.0000 mg/L	0.00004	80.72%
Ca 317.933†	1003.9	0.2086 mg/L		0.00157	0.2086 mg/L	0.00157	0.75%
Cd 228.802†	29.6	0.0006 mg/L		0.00013	0.0006 mg/L	0.00013	19.74%
Co 228.616†	-23.2	-0.0005 mg/L		0.00004	-0.0005 mg/L	0.00004	8.64%
Cr 267.716†	149.6	0.0020 mg/L		0.00014	0.0020 mg/L	0.00014	7.07%
Cu 327.393†	740.1	0.0047 mg/L		0.00034	0.0047 mg/L	0.00034	7.15%
Fe 238.204†	5.1	0.0487 mg/L		0.00440	0.0487 mg/L	0.00440	9.03%
K 766.490†	132.2	0.0852 mg/L		0.01607	0.0852 mg/L	0.01607	18.86%
Mg 285.213†	70.0	0.0074 mg/L		0.00025	0.0074 mg/L	0.00025	3.39%
Mn 257.610†	-0.6	-0.0001 mg/L		0.00024	-0.0001 mg/L	0.00024	215.68%
Mo 202.031†	24.9	0.0011 mg/L		0.00015	0.0011 mg/L	0.00015	13.50%
Na 589.592†	218.8	0.0346 mg/L		0.00631	0.0346 mg/L	0.00631	18.27%
Ni 231.604†	12.6	0.0003 mg/L		0.00014	0.0003 mg/L	0.00014	52.18%
Pb 220.353†	61.9	0.0088 mg/L		0.00176	0.0088 mg/L	0.00176	20.04%
Sb 206.836†	16.6	0.0045 mg/L		0.00169	0.0045 mg/L	0.00169	37.47%
Se 196.026†	3.7	0.0014 mg/L		0.00403	0.0014 mg/L	0.00403	284.93%
Sn 189.927†	186.0	0.0273 mg/L		0.00093	0.0273 mg/L	0.00093	3.40%
Ti 337.279†	39.5	0.0022 mg/L		0.00140	0.0022 mg/L	0.00140	62.70%
Tl 351.924†	-26.1	-0.0061 mg/L		0.00932	-0.0061 mg/L	0.00932	152.73%
V 290.880†	-39.0	-0.0005 mg/L		0.00026	-0.0005 mg/L	0.00026	55.64%
Zn 206.200†	3704.9	0.0913 mg/L		0.00131	0.0913 mg/L	0.00131	1.44%
Zr 343.823†	97.4	0.0003 mg/L		0.00019	0.0003 mg/L	0.00019	55.45%

Sequence No.: 84

Sample ID: B336855-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 89

Date Collected: 4/11/2023 9:17:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145019.0	96.7	%	0.54			0.55%
Y axial	3077197.8	97.6	%	0.42			0.43%
Ag 328.068†	62096.3	0.7287	mg/L	0.00733	0.7287 mg/L	0.00733	1.01%
Al 396.153†	341637.9	79.61	mg/L	0.222	79.61 mg/L	0.222	0.28%
As 188.979†	3130.0	1.680	mg/L	0.0183	1.680 mg/L	0.0183	1.09%
B 208.889†	10992.2	0.8119	mg/L	0.00705	0.8119 mg/L	0.00705	0.87%
Ba 233.527†	297851.3	2.917	mg/L	0.0095	2.917 mg/L	0.0095	0.32%
Be 313.107†	124754.0	0.7456	mg/L	0.00845	0.7456 mg/L	0.00845	1.13%
Ca 317.933†	218472.5	45.39	mg/L	0.083	45.39 mg/L	0.083	0.18%
Cd 228.802†	93389.8	2.008	mg/L	0.0055	2.008 mg/L	0.0055	0.28%
Co 228.616†	43443.3	0.9124	mg/L	0.00342	0.9124 mg/L	0.00342	0.37%
Cr 267.716†	144612.2	1.947	mg/L	0.0053	1.947 mg/L	0.0053	0.27%
Cu 327.393†	215008.4	1.370	mg/L	0.0036	1.370 mg/L	0.0036	0.26%
Fe 238.204†	14561.9	139.9	mg/L	2.02	139.9 mg/L	2.02	1.45%
K 766.490†	32581.4	21.00	mg/L	0.232	21.00 mg/L	0.232	1.10%
Mg 285.213†	206450.0	21.94	mg/L	0.070	21.94 mg/L	0.070	0.32%
Mn 257.610†	22178.7	3.757	mg/L	0.0377	3.757 mg/L	0.0377	1.00%
Mo 202.031†	42190.4	1.843	mg/L	0.0094	1.843 mg/L	0.0094	0.51%
Na 589.592†	28184.0	4.451	mg/L	0.0315	4.451 mg/L	0.0315	0.71%
Ni 231.604†	71613.4	1.538	mg/L	0.0078	1.538 mg/L	0.0078	0.51%
Pb 220.353†	17615.5	2.501	mg/L	0.0156	2.501 mg/L	0.0156	0.63%
Sb 206.836†	3812.0	0.9874	mg/L	0.00860	0.9874 mg/L	0.00860	0.87%
Se 196.026†	5155.4	1.965	mg/L	0.0106	1.965 mg/L	0.0106	0.54%
Sn 189.927†	9593.3	1.428	mg/L	0.0036	1.428 mg/L	0.0036	0.25%
Ti 337.279†	66258.7	3.739	mg/L	0.0387	3.739 mg/L	0.0387	1.03%
Tl 351.924†	4102.9	1.041	mg/L	0.0096	1.041 mg/L	0.0096	0.93%
V 290.880†	166988.0	2.132	mg/L	0.0043	2.132 mg/L	0.0043	0.20%
Zn 206.200†	91894.4	2.263	mg/L	0.0069	2.263 mg/L	0.0069	0.30%
Zr 343.823†	18452.8	0.0619	mg/L	0.00087	0.0619 mg/L	0.00087	1.40%

Sequence No.: 85

Sample ID: B336855-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 90

Date Collected: 4/11/2023 9:23:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	144186.3	96.2	%	0.47			0.48%
Y axial	3080141.5	97.7	%	0.64			0.65%
Ag 328.068†	65943.2	0.7738	mg/L	0.00567	0.7738 mg/L	0.00567	0.73%
Al 396.153†	379388.7	88.41	mg/L	0.794	88.41 mg/L	0.794	0.90%
As 188.979†	3423.4	1.837	mg/L	0.0481	1.837 mg/L	0.0481	2.62%
B 208.889†	12290.7	0.9103	mg/L	0.01673	0.9103 mg/L	0.01673	1.84%
Ba 233.527†	330344.3	3.235	mg/L	0.0031	3.235 mg/L	0.0031	0.10%
Be 313.107†	139122.0	0.8316	mg/L	0.00056	0.8316 mg/L	0.00056	0.07%
Ca 317.933†	241515.7	50.18	mg/L	0.542	50.18 mg/L	0.542	1.08%
Cd 228.802†	107579.5	2.313	mg/L	0.0041	2.313 mg/L	0.0041	0.18%
Co 228.616†	48617.5	1.021	mg/L	0.0169	1.021 mg/L	0.0169	1.65%
Cr 267.716†	158803.5	2.138	mg/L	0.0051	2.138 mg/L	0.0051	0.24%
Cu 327.393†	236334.9	1.505	mg/L	0.0012	1.505 mg/L	0.0012	0.08%
Fe 238.204†	15866.4	152.4	mg/L	0.11	152.4 mg/L	0.11	0.07%
K 766.490†	35223.0	22.70	mg/L	0.079	22.70 mg/L	0.079	0.35%
Mg 285.213†	223734.0	23.78	mg/L	0.173	23.78 mg/L	0.173	0.73%
Mn 257.610†	23693.8	4.014	mg/L	0.0079	4.014 mg/L	0.0079	0.20%
Mo 202.031†	46102.4	2.014	mg/L	0.0388	2.014 mg/L	0.0388	1.93%
Na 589.592†	30818.8	4.867	mg/L	0.0238	4.867 mg/L	0.0238	0.49%
Ni 231.604†	81093.6	1.741	mg/L	0.0027	1.741 mg/L	0.0027	0.15%
Pb 220.353†	18971.9	2.693	mg/L	0.0576	2.693 mg/L	0.0576	2.14%
Sb 206.836†	4285.7	1.112	mg/L	0.0261	1.112 mg/L	0.0261	2.34%
Se 196.026†	5775.6	2.202	mg/L	0.0450	2.202 mg/L	0.0450	2.04%
Sn 189.927†	10394.4	1.547	mg/L	0.0353	1.547 mg/L	0.0353	2.28%

Ti 337.279†	71464.6	4.032 mg/L	0.0345	4.032 mg/L	0.0345	0.85%
Tl 351.924†	4494.7	1.140 mg/L	0.0296	1.140 mg/L	0.0296	2.60%
V 290.880†	182935.6	2.335 mg/L	0.0060	2.335 mg/L	0.0060	0.26%
Zn 206.200†	102243.2	2.518 mg/L	0.0086	2.518 mg/L	0.0086	0.34%
Zr 343.823†	19818.3	0.0665 mg/L	0.00104	0.0665 mg/L	0.00104	1.57%

Sequence No.: 86

Sample ID: B336855-BS3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 91

Date Collected: 4/11/2023 9:29:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	143826.2	96.0 %		0.42			0.43%
Y axial	3031809.1	96.1 %		0.81			0.84%
Ag 328.068†	61571.8	0.7225 mg/L		0.00757	0.7225 mg/L	0.00757	1.05%
Al 396.153†	341787.4	79.65 mg/L		0.236	79.65 mg/L	0.236	0.30%
As 188.979†	3110.3	1.670 mg/L		0.0503	1.670 mg/L	0.0503	3.01%
B 208.889†	11095.7	0.8209 mg/L		0.02372	0.8209 mg/L	0.02372	2.89%
Ba 233.527†	291816.5	2.857 mg/L		0.0016	2.857 mg/L	0.0016	0.06%
Be 313.107†	123818.0	0.7399 mg/L		0.00049	0.7399 mg/L	0.00049	0.07%
Ca 317.933†	218553.4	45.41 mg/L		0.174	45.41 mg/L	0.174	0.38%
Cd 228.802†	92316.3	1.984 mg/L		0.0013	1.984 mg/L	0.0013	0.07%
Co 228.616†	43252.7	0.9081 mg/L		0.02749	0.9081 mg/L	0.02749	3.03%
Cr 267.716†	143127.0	1.927 mg/L		0.0029	1.927 mg/L	0.0029	0.15%
Cu 327.393†	214171.9	1.365 mg/L		0.0022	1.365 mg/L	0.0022	0.16%
Fe 238.204†	14958.5	143.7 mg/L		0.61	143.7 mg/L	0.61	0.43%
K 766.490†	32506.2	20.95 mg/L		0.016	20.95 mg/L	0.016	0.08%
Mg 285.213†	205469.1	21.84 mg/L		0.039	21.84 mg/L	0.039	0.18%
Mn 257.610†	21966.1	3.721 mg/L		0.0056	3.721 mg/L	0.0056	0.15%
Mo 202.031†	42002.6	1.835 mg/L		0.0526	1.835 mg/L	0.0526	2.87%
Na 589.592†	27963.6	4.416 mg/L		0.0074	4.416 mg/L	0.0074	0.17%
Ni 231.604†	71447.3	1.534 mg/L		0.0444	1.534 mg/L	0.0444	2.89%
Pb 220.353†	17451.7	2.477 mg/L		0.0668	2.477 mg/L	0.0668	2.70%
Sb 206.836†	3874.8	1.005 mg/L		0.0377	1.005 mg/L	0.0377	3.76%
Se 196.026†	5224.7	1.992 mg/L		0.0907	1.992 mg/L	0.0907	4.56%
Sn 189.927†	9503.6	1.416 mg/L		0.0372	1.416 mg/L	0.0372	2.63%
Ti 337.279†	69339.2	3.912 mg/L		0.0073	3.912 mg/L	0.0073	0.19%
Tl 351.924†	3954.2	1.008 mg/L		0.0215	1.008 mg/L	0.0215	2.14%
V 290.880†	167647.5	2.139 mg/L		0.0031	2.139 mg/L	0.0031	0.14%
Zn 206.200†	92453.7	2.276 mg/L		0.0073	2.276 mg/L	0.0073	0.32%
Zr 343.823†	18422.7	0.0617 mg/L		0.00185	0.0617 mg/L	0.00185	2.99%

Sequence No.: 87

Sample ID: B336855-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 92

Date Collected: 4/11/2023 9:35:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	143160.7	95.5 %		0.86			0.90%
Y axial	3046698.3	96.6 %		1.36			1.41%
Ag 328.068†	63975.0	0.7507 mg/L		0.02622	0.7507 mg/L	0.02622	3.49%
Al 396.153†	363799.5	84.78 mg/L		0.750	84.78 mg/L	0.750	0.88%
As 188.979†	3234.9	1.737 mg/L		0.0326	1.737 mg/L	0.0326	1.88%
B 208.889†	11696.0	0.8652 mg/L		0.01739	0.8652 mg/L	0.01739	2.01%
Ba 233.527†	306604.6	3.002 mg/L		0.0049	3.002 mg/L	0.0049	0.16%
Be 313.107†	133527.3	0.7981 mg/L		0.00239	0.7981 mg/L	0.00239	0.30%
Ca 317.933†	232186.5	48.24 mg/L		0.420	48.24 mg/L	0.420	0.87%
Cd 228.802†	99779.5	2.145 mg/L		0.0028	2.145 mg/L	0.0028	0.13%

Co 228.616†	46107.6	0.9686 mg/L	0.01746	0.9686 mg/L	0.01746	1.80%
Cr 267.716†	153593.3	2.068 mg/L	0.0011	2.068 mg/L	0.0011	0.05%
Cu 327.393†	229506.0	1.462 mg/L	0.0033	1.462 mg/L	0.0033	0.23%
Fe 238.204†	15013.6	144.2 mg/L	0.34	144.2 mg/L	0.34	0.24%
K 766.490†	33727.3	21.74 mg/L	0.129	21.74 mg/L	0.129	0.59%
Mg 285.213†	217961.1	23.17 mg/L	0.181	23.17 mg/L	0.181	0.78%
Mn 257.610†	23165.7	3.925 mg/L	0.0236	3.925 mg/L	0.0236	0.60%
Mo 202.031†	44349.6	1.937 mg/L	0.0347	1.937 mg/L	0.0347	1.79%
Na 589.592†	29481.5	4.656 mg/L	0.0386	4.656 mg/L	0.0386	0.83%
Ni 231.604†	77481.7	1.664 mg/L	0.0035	1.664 mg/L	0.0035	0.21%
Pb 220.353†	18153.0	2.577 mg/L	0.0406	2.577 mg/L	0.0406	1.57%
Sb 206.836†	4080.6	1.058 mg/L	0.0035	1.058 mg/L	0.0035	0.33%
Se 196.026†	5464.8	2.083 mg/L	0.0635	2.083 mg/L	0.0635	3.05%
Sn 189.927†	9856.8	1.467 mg/L	0.0176	1.467 mg/L	0.0176	1.20%
Ti 337.279†	68091.3	3.842 mg/L	0.0210	3.842 mg/L	0.0210	0.55%
Tl 351.924†	4204.0	1.067 mg/L	0.0350	1.067 mg/L	0.0350	3.28%
V 290.880†	175787.9	2.244 mg/L	0.0005	2.244 mg/L	0.0005	0.02%
Zn 206.200†	96907.5	2.387 mg/L	0.0040	2.387 mg/L	0.0040	0.17%
Zr 343.823†	18793.3	0.0630 mg/L	0.00120	0.0630 mg/L	0.00120	1.91%

Sequence No.: 88

Sample ID: B336855-BS5

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 93

Date Collected: 4/11/2023 9:41:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS5

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	139733.3	93.2 %	1.16			1.24%
Y axial	2988852.4	94.8 %	0.93			0.98%
Ag 328.068†	62329.1	0.7314 mg/L	0.01046	0.7314 mg/L	0.01046	1.43%
Al 396.153†	348548.0	81.22 mg/L	0.505	81.22 mg/L	0.505	0.62%
As 188.979†	3111.6	1.671 mg/L	0.0121	1.671 mg/L	0.0121	0.73%
B 208.889†	11266.0	0.8342 mg/L	0.01366	0.8342 mg/L	0.01366	1.64%
Ba 233.527†	299034.8	2.928 mg/L	0.0041	2.928 mg/L	0.0041	0.14%
Be 313.107†	128510.4	0.7680 mg/L	0.00060	0.7680 mg/L	0.00060	0.08%
Ca 317.933†	219651.9	45.64 mg/L	0.341	45.64 mg/L	0.341	0.75%
Cd 228.802†	94677.0	2.035 mg/L	0.0040	2.035 mg/L	0.0040	0.19%
Co 228.616†	44245.2	0.9292 mg/L	0.01242	0.9292 mg/L	0.01242	1.34%
Cr 267.716†	149766.1	2.016 mg/L	0.0022	2.016 mg/L	0.0022	0.11%
Cu 327.393†	220599.6	1.405 mg/L	0.0042	1.405 mg/L	0.0042	0.30%
Fe 238.204†	14509.1	139.4 mg/L	0.14	139.4 mg/L	0.14	0.10%
K 766.490†	33551.0	21.63 mg/L	0.030	21.63 mg/L	0.030	0.14%
Mg 285.213†	211727.0	22.50 mg/L	0.123	22.50 mg/L	0.123	0.55%
Mn 257.610†	22413.9	3.797 mg/L	0.0113	3.797 mg/L	0.0113	0.30%
Mo 202.031†	42363.1	1.850 mg/L	0.0258	1.850 mg/L	0.0258	1.39%
Na 589.592†	28837.1	4.554 mg/L	0.0144	4.554 mg/L	0.0144	0.32%
Ni 231.604†	73397.9	1.576 mg/L	0.0193	1.576 mg/L	0.0193	1.22%
Pb 220.353†	17355.0	2.464 mg/L	0.0356	2.464 mg/L	0.0356	1.44%
Sb 206.836†	3989.4	1.035 mg/L	0.0217	1.035 mg/L	0.0217	2.09%
Se 196.026†	5259.0	2.005 mg/L	0.0105	2.005 mg/L	0.0105	0.53%
Sn 189.927†	9520.4	1.418 mg/L	0.0192	1.418 mg/L	0.0192	1.35%
Ti 337.279†	67909.9	3.832 mg/L	0.0135	3.832 mg/L	0.0135	0.35%
Tl 351.924†	4043.0	1.026 mg/L	0.0256	1.026 mg/L	0.0256	2.49%
V 290.880†	172554.1	2.202 mg/L	0.0032	2.202 mg/L	0.0032	0.15%
Zn 206.200†	94853.2	2.336 mg/L	0.0061	2.336 mg/L	0.0061	0.26%
Zr 343.823†	19321.4	0.0651 mg/L	0.00525	0.0651 mg/L	0.00525	8.07%

Sequence No.: 89

Sample ID: B336857-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 94

Date Collected: 4/11/2023 9:47:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	143242.8	95.6	%	1.54			1.61%
Y axial	3151000.0	99.9	%	0.88			0.88%
Ag 328.068†	-38.8	-0.0005	mg/L	0.00033	-0.0005	mg/L	0.00033 73.13%
Al 396.153†	111.3	0.0261	mg/L	0.00354	0.0261	mg/L	0.00354 13.58%
As 188.979†	-35.8	-0.0187	mg/L	0.00172	-0.0187	mg/L	0.00172 9.21%
B 208.889†	227.2	0.0190	mg/L	0.00062	0.0190	mg/L	0.00062 3.29%
Ba 233.527†	179.2	0.0018	mg/L	0.00005	0.0018	mg/L	0.00005 2.89%
Be 313.107†	-35.7	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003 11.59%
Ca 317.933†	3880.1	0.8062	mg/L	0.00977	0.8062	mg/L	0.00977 1.21%
Cd 228.802†	22.5	0.0006	mg/L	0.00018	0.0006	mg/L	0.00018 30.13%
Co 228.616†	-14.1	-0.0003	mg/L	0.00028	-0.0003	mg/L	0.00028 88.76%
Cr 267.716†	147.2	0.0020	mg/L	0.00009	0.0020	mg/L	0.00009 4.38%
Cu 327.393†	1118.3	0.0071	mg/L	0.00026	0.0071	mg/L	0.00026 3.68%
Fe 238.204†	6.1	0.0573	mg/L	0.01596	0.0573	mg/L	0.01596 27.87%
K 766.490†	932.5	0.6011	mg/L	0.03298	0.6011	mg/L	0.03298 5.49%
Mg 285.213†	17122.0	1.816	mg/L	0.0040	1.816	mg/L	0.0040 0.22%
Mn 257.610†	22.5	0.0038	mg/L	0.00014	0.0038	mg/L	0.00014 3.78%
Mo 202.031†	-75.8	-0.0033	mg/L	0.00037	-0.0033	mg/L	0.00037 11.22%
Na 589.592†	11655.0	1.840	mg/L	0.0109	1.840	mg/L	0.0109 0.59%
Ni 231.604†	-13.3	-0.0003	mg/L	0.00015	-0.0003	mg/L	0.00015 51.73%
Pb 220.353†	31.0	0.0044	mg/L	0.00115	0.0044	mg/L	0.00115 26.31%
Sb 206.836†	24.7	0.0067	mg/L	0.00078	0.0067	mg/L	0.00078 11.62%
Se 196.026†	116.5	0.0445	mg/L	0.00354	0.0445	mg/L	0.00354 7.97%
Sn 189.927†	261.3	0.0384	mg/L	0.00046	0.0384	mg/L	0.00046 1.20%
Ti 337.279†	116.9	0.0066	mg/L	0.00050	0.0066	mg/L	0.00050 7.65%
Tl 351.924†	-15.8	-0.0037	mg/L	0.00354	-0.0037	mg/L	0.00354 95.61%
V 290.880†	240.2	0.0024	mg/L	0.00029	0.0024	mg/L	0.00029 12.47%
Zn 206.200†	32880.5	0.8104	mg/L	0.01219	0.8104	mg/L	0.01219 1.50%
Zr 343.823†	43.5	0.0002	mg/L	0.00029	0.0002	mg/L	0.00029 189.05%

Sequence No.: 90

Sample ID: B336857-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 95

Date Collected: 4/11/2023 9:54:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141446.0	94.4	%	0.35			0.37%
Y axial	3018965.5	95.7	%	0.63			0.66%
Ag 328.068†	62879.2	0.7378	mg/L	0.01341	0.7378	mg/L	0.01341 1.82%
Al 396.153†	389906.9	90.87	mg/L	0.572	90.87	mg/L	0.572 0.63%
As 188.979†	3237.5	1.737	mg/L	0.0246	1.737	mg/L	0.0246 1.42%
B 208.889†	11507.6	0.8538	mg/L	0.01865	0.8538	mg/L	0.01865 2.18%
Ba 233.527†	298199.4	2.920	mg/L	0.0007	2.920	mg/L	0.0007 0.02%
Be 313.107†	125510.1	0.7501	mg/L	0.00024	0.7501	mg/L	0.00024 0.03%
Ca 317.933†	224687.6	46.68	mg/L	0.375	46.68	mg/L	0.375 0.80%
Cd 228.802†	90841.9	1.952	mg/L	0.0007	1.952	mg/L	0.0007 0.04%
Co 228.616†	43461.2	0.9112	mg/L	0.01400	0.9112	mg/L	0.01400 1.54%
Cr 267.716†	143299.2	1.929	mg/L	0.0041	1.929	mg/L	0.0041 0.21%
Cu 327.393†	216232.1	1.378	mg/L	0.0007	1.378	mg/L	0.0007 0.05%
Fe 238.204†	14382.2	138.2	mg/L	0.26	138.2	mg/L	0.26 0.19%
K 766.490†	37183.6	23.97	mg/L	0.080	23.97	mg/L	0.080 0.33%
Mg 285.213†	246797.5	26.22	mg/L	0.174	26.22	mg/L	0.174 0.66%
Mn 257.610†	21925.1	3.714	mg/L	0.0094	3.714	mg/L	0.0094 0.25%
Mo 202.031†	42493.9	1.856	mg/L	0.0262	1.856	mg/L	0.0262 1.41%
Na 589.592†	38580.2	6.092	mg/L	0.0282	6.092	mg/L	0.0282 0.46%
Ni 231.604†	72396.4	1.555	mg/L	0.0219	1.555	mg/L	0.0219 1.41%
Pb 220.353†	17064.5	2.424	mg/L	0.0401	2.424	mg/L	0.0401 1.66%
Sb 206.836†	6230.5	1.651	mg/L	0.0332	1.651	mg/L	0.0332 2.01%
Se 196.026†	6022.2	2.296	mg/L	0.0328	2.296	mg/L	0.0328 1.43%
Sn 189.927†	9978.8	1.489	mg/L	0.0230	1.489	mg/L	0.0230 1.54%

Ti 337.279†	81861.6	4.619 mg/L	0.0010	4.619 mg/L	0.0010	0.02%
Tl 351.924†	4064.2	1.027 mg/L	0.0174	1.027 mg/L	0.0174	1.70%
V 290.880†	167849.8	2.142 mg/L	0.0006	2.142 mg/L	0.0006	0.03%
Zn 206.200†	120128.4	2.959 mg/L	0.0062	2.959 mg/L	0.0062	0.21%
Zr 343.823†	23864.4	0.0813 mg/L	0.00166	0.0813 mg/L	0.00166	2.04%

Sequence No.: 91

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 10:00:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	139626.7	93.2 %		1.00			1.07%
Y axial	3010433.1	95.5 %		0.84			0.88%
Ag 328.068†	201120.6	2.343 mg/L		0.0127	2.343 mg/L	0.0127	0.54%
QC value within limits for Ag 328.068				Recovery = 93.73%			
Al 396.153†	41367.6	9.462 mg/L		0.0219	9.462 mg/L	0.0219	0.23%
QC value within limits for Al 396.153				Recovery = 94.62%			
As 188.979†	8796.4	4.651 mg/L		0.0612	4.651 mg/L	0.0612	1.31%
QC value within limits for As 188.979				Recovery = 93.02%			
B 208.889†	56005.4	4.380 mg/L		0.0611	4.380 mg/L	0.0611	1.40%
QC value less than the lower limit for B 208.889				Recovery = 87.60%			
Ba 233.527†	491365.0	4.813 mg/L		0.0073	4.813 mg/L	0.0073	0.15%
QC value within limits for Ba 233.527				Recovery = 96.25%			
Be 313.107†	763213.6	4.589 mg/L		0.0195	4.589 mg/L	0.0195	0.43%
QC value within limits for Be 313.107				Recovery = 91.77%			
Ca 317.933†	44528.1	9.252 mg/L		0.0189	9.252 mg/L	0.0189	0.20%
QC value within limits for Ca 317.933				Recovery = 92.52%			
Cd 228.802†	222225.0	4.784 mg/L		0.0101	4.784 mg/L	0.0101	0.21%
QC value within limits for Cd 228.802				Recovery = 95.69%			
Co 228.616†	223984.7	4.730 mg/L		0.0066	4.730 mg/L	0.0066	0.14%
QC value within limits for Co 228.616				Recovery = 94.61%			
Cr 267.716†	355726.5	4.784 mg/L		0.0057	4.784 mg/L	0.0057	0.12%
QC value within limits for Cr 267.716				Recovery = 95.67%			
Cu 327.393†	742831.2	4.720 mg/L		0.0100	4.720 mg/L	0.0100	0.21%
QC value within limits for Cu 327.393				Recovery = 94.40%			
Fe 238.204†	462.2	4.461 mg/L		0.0434	4.461 mg/L	0.0434	0.97%
QC value less than the lower limit for Fe 238.204				Recovery = 89.23%			
K 766.490†	15176.9	9.783 mg/L		0.0310	9.783 mg/L	0.0310	0.32%
QC value within limits for K 766.490				Recovery = 97.83%			
Mg 285.213†	91049.4	9.557 mg/L		0.0133	9.557 mg/L	0.0133	0.14%
QC value within limits for Mg 285.213				Recovery = 95.57%			
Mn 257.610†	27583.9	4.673 mg/L		0.0189	4.673 mg/L	0.0189	0.40%
QC value within limits for Mn 257.610				Recovery = 93.46%			
Mo 202.031†	108614.8	4.744 mg/L		0.0099	4.744 mg/L	0.0099	0.21%
QC value within limits for Mo 202.031				Recovery = 94.89%			
Na 589.592†	62731.4	9.906 mg/L		0.0145	9.906 mg/L	0.0145	0.15%
QC value within limits for Na 589.592				Recovery = 99.06%			
Ni 231.604†	221596.1	4.758 mg/L		0.0048	4.758 mg/L	0.0048	0.10%
QC value within limits for Ni 231.604				Recovery = 95.16%			
Pb 220.353†	33561.3	4.766 mg/L		0.0595	4.766 mg/L	0.0595	1.25%
QC value within limits for Pb 220.353				Recovery = 95.32%			
Sb 206.836†	16982.5	4.579 mg/L		0.0402	4.579 mg/L	0.0402	0.88%
QC value within limits for Sb 206.836				Recovery = 91.57%			
Se 196.026†	12080.8	4.604 mg/L		0.0461	4.604 mg/L	0.0461	1.00%
QC value within limits for Se 196.026				Recovery = 92.07%			
Sn 189.927†	32388.5	4.779 mg/L		0.0676	4.779 mg/L	0.0676	1.41%
QC value within limits for Sn 189.927				Recovery = 95.58%			
Ti 337.279†	83219.2	4.693 mg/L		0.0177	4.693 mg/L	0.0177	0.38%
QC value within limits for Ti 337.279				Recovery = 93.86%			
Tl 351.924†	12942.3	3.011 mg/L		0.0361	3.011 mg/L	0.0361	1.20%
QC value greater than the upper limit for Tl 351.924				Recovery = 120.43%			
V 290.880†	385834.7	4.989 mg/L		0.0069	4.989 mg/L	0.0069	0.14%
QC value within limits for V 290.880				Recovery = 99.79%			

Zn 206.200† 197661.2 4.891 mg/L 0.0153 4.891 mg/L 0.0153 0.31%
 QC value within limits for Zn 206.200 Recovery = 97.81%
 Zr 343.823† 1338679.9 4.773 mg/L 0.0073 4.773 mg/L 0.0073 0.15%
 QC Failed. Continue with analysis.

Sequence No.: 92

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 10:07:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	138781.4	92.6 %	0.18			0.20%
Y axial	3089083.1	98.0 %	1.82			1.86%
Ag 328.068†	432.8	0.0051 mg/L	0.00081	0.0051 mg/L	0.00081	15.95%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 396.153†	2.3	0.0005 mg/L	0.00339	0.0005 mg/L	0.00339	692.22%
QC value within limits for Al 396.153						Recovery = Not calculated
As 188.979†	-1.5	-0.0008 mg/L	0.00050	-0.0008 mg/L	0.00050	63.84%
QC value within limits for As 188.979						Recovery = Not calculated
B 208.889†	200.2	0.0165 mg/L	0.00034	0.0165 mg/L	0.00034	2.08%
QC value within limits for B 208.889						Recovery = Not calculated
Ba 233.527†	25.4	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	34.98%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 313.107†	110.5	0.0007 mg/L	0.00014	0.0007 mg/L	0.00014	20.38%
QC value within limits for Be 313.107						Recovery = Not calculated
Ca 317.933†	2.4	0.0005 mg/L	0.00059	0.0005 mg/L	0.00059	118.27%
QC value within limits for Ca 317.933						Recovery = Not calculated
Cd 228.802†	24.0	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	7.73%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	8.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	11.69%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	49.5	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	15.17%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 327.393†	181.7	0.0012 mg/L	0.00008	0.0012 mg/L	0.00008	6.86%
QC value within limits for Cu 327.393						Recovery = Not calculated
Fe 238.204†	4.4	0.0420 mg/L	0.00934	0.0420 mg/L	0.00934	22.22%
QC value within limits for Fe 238.204						Recovery = Not calculated
K 766.490†	37.3	0.0240 mg/L	0.02806	0.0240 mg/L	0.02806	116.84%
QC value within limits for K 766.490						Recovery = Not calculated
Mg 285.213†	10.0	0.0011 mg/L	0.00091	0.0011 mg/L	0.00091	85.36%
QC value within limits for Mg 285.213						Recovery = Not calculated
Mn 257.610†	-0.7	-0.0001 mg/L	0.00060	-0.0001 mg/L	0.00060	480.00%
QC value within limits for Mn 257.610						Recovery = Not calculated
Mo 202.031†	31.7	0.0014 mg/L	0.00007	0.0014 mg/L	0.00007	4.98%
QC value within limits for Mo 202.031						Recovery = Not calculated
Na 589.592†	93.7	0.0148 mg/L	0.00404	0.0148 mg/L	0.00404	27.30%
QC value within limits for Na 589.592						Recovery = Not calculated
Ni 231.604†	17.5	0.0004 mg/L	0.00023	0.0004 mg/L	0.00023	61.25%
QC value within limits for Ni 231.604						Recovery = Not calculated
Pb 220.353†	31.5	0.0045 mg/L	0.00058	0.0045 mg/L	0.00058	12.94%
QC value within limits for Pb 220.353						Recovery = Not calculated
Sb 206.836†	16.7	0.0046 mg/L	0.00214	0.0046 mg/L	0.00214	46.85%
QC value within limits for Sb 206.836						Recovery = Not calculated
Se 196.026†	1.5	0.0006 mg/L	0.00262	0.0006 mg/L	0.00262	451.03%
QC value within limits for Se 196.026						Recovery = Not calculated
Sn 189.927†	-1.6	-0.0002 mg/L	0.00089	-0.0002 mg/L	0.00089	373.40%
QC value within limits for Sn 189.927						Recovery = Not calculated
Ti 337.279†	14.0	0.0008 mg/L	0.00013	0.0008 mg/L	0.00013	16.22%
QC value within limits for Ti 337.279						Recovery = Not calculated
Tl 351.924†	-27.1	-0.0063 mg/L	0.00788	-0.0063 mg/L	0.00788	124.27%
QC value within limits for Tl 351.924						Recovery = Not calculated
V 290.880†	-9.2	-0.0001 mg/L	0.00024	-0.0001 mg/L	0.00024	284.26%
QC value within limits for V 290.880						Recovery = Not calculated
Zn 206.200†	55.2	0.0014 mg/L	0.00019	0.0014 mg/L	0.00019	14.27%

QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 76.7 0.0003 mg/L 0.00011 0.0003 mg/L 0.00011 39.67%
 All analyte(s) passed QC.

Sequence No.: 93 Autosampler Location: 96
 Sample ID: B336857-BS2 Date Collected: 4/11/2023 10:13:15 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:
 Wash Time (before sample): 110

Mean Data: B336857-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140974.2	94.1 %		0.45			0.48%
Y axial	3007839.2	95.4 %		0.49			0.52%
Ag 328.068†	60158.3	0.7059 mg/L		0.00286	0.7059 mg/L	0.00286	0.41%
Al 396.153†	381014.0	88.79 mg/L		0.644	88.79 mg/L	0.644	0.73%
As 188.979†	3278.8	1.758 mg/L		0.0132	1.758 mg/L	0.0132	0.75%
B 208.889†	11981.9	0.8904 mg/L		0.00680	0.8904 mg/L	0.00680	0.76%
Ba 233.527†	305687.0	2.993 mg/L		0.0034	2.993 mg/L	0.0034	0.11%
Be 313.107†	132731.1	0.7933 mg/L		0.00243	0.7933 mg/L	0.00243	0.31%
Ca 317.933†	230376.3	47.87 mg/L		0.396	47.87 mg/L	0.396	0.83%
Cd 228.802†	94311.3	2.027 mg/L		0.0026	2.027 mg/L	0.0026	0.13%
Co 228.616†	44778.0	0.9394 mg/L		0.00605	0.9394 mg/L	0.00605	0.64%
Cr 267.716†	150330.8	2.023 mg/L		0.0016	2.023 mg/L	0.0016	0.08%
Cu 327.393†	226847.9	1.445 mg/L		0.0020	1.445 mg/L	0.0020	0.14%
Fe 238.204†	13723.6	131.8 mg/L		0.64	131.8 mg/L	0.64	0.48%
K 766.490†	35961.5	23.18 mg/L		0.029	23.18 mg/L	0.029	0.12%
Mg 285.213†	242138.0	25.73 mg/L		0.180	25.73 mg/L	0.180	0.70%
Mn 257.610†	22555.0	3.821 mg/L		0.0196	3.821 mg/L	0.0196	0.51%
Mo 202.031†	43637.6	1.906 mg/L		0.0152	1.906 mg/L	0.0152	0.80%
Na 589.592†	41015.8	6.477 mg/L		0.0215	6.477 mg/L	0.0215	0.33%
Ni 231.604†	75269.7	1.616 mg/L		0.0134	1.616 mg/L	0.0134	0.83%
Pb 220.353†	17527.5	2.490 mg/L		0.0233	2.490 mg/L	0.0233	0.93%
Sb 206.836†	6386.1	1.693 mg/L		0.0122	1.693 mg/L	0.0122	0.72%
Se 196.026†	6221.4	2.372 mg/L		0.0230	2.372 mg/L	0.0230	0.97%
Sn 189.927†	9705.0	1.448 mg/L		0.0106	1.448 mg/L	0.0106	0.73%
Ti 337.279†	78057.4	4.404 mg/L		0.0119	4.404 mg/L	0.0119	0.27%
Tl 351.924†	4065.1	1.023 mg/L		0.0095	1.023 mg/L	0.0095	0.93%
V 290.880†	175816.9	2.244 mg/L		0.0026	2.244 mg/L	0.0026	0.12%
Zn 206.200†	126180.3	3.109 mg/L		0.0069	3.109 mg/L	0.0069	0.22%
Zr 343.823†	23428.1	0.0799 mg/L		0.00075	0.0799 mg/L	0.00075	0.93%

Sequence No.: 94 Autosampler Location: 97
 Sample ID: B336857-BS3 Date Collected: 4/11/2023 10:19:04 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:
 Wash Time (before sample): 220

Mean Data: B336857-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141051.8	94.1 %		2.12			2.25%
Y axial	3006812.6	95.4 %		0.40			0.42%
Ag 328.068†	61074.5	0.7167 mg/L		0.00456	0.7167 mg/L	0.00456	0.64%
Al 396.153†	390280.9	90.95 mg/L		2.396	90.95 mg/L	2.396	2.63%
As 188.979†	3400.4	1.822 mg/L		0.0333	1.822 mg/L	0.0333	1.83%
B 208.889†	12166.5	0.9041 mg/L		0.00686	0.9041 mg/L	0.00686	0.76%
Ba 233.527†	314243.1	3.077 mg/L		0.0049	3.077 mg/L	0.0049	0.16%
Be 313.107†	135546.9	0.8102 mg/L		0.00083	0.8102 mg/L	0.00083	0.10%
Ca 317.933†	237510.6	49.35 mg/L		1.402	49.35 mg/L	1.402	2.84%
Cd 228.802†	95519.1	2.053 mg/L		0.0048	2.053 mg/L	0.0048	0.23%
Co 228.616†	45638.3	0.9575 mg/L		0.00866	0.9575 mg/L	0.00866	0.90%
Cr 267.716†	151027.3	2.033 mg/L		0.0053	2.033 mg/L	0.0053	0.26%

Cu 327.393†	228133.7	1.453 mg/L	0.0053	1.453 mg/L	0.0053	0.36%
Fe 238.204†	13677.4	131.4 mg/L	0.16	131.4 mg/L	0.16	0.12%
K 766.490†	36608.1	23.60 mg/L	0.117	23.60 mg/L	0.117	0.50%
Mg 285.213†	247299.0	26.27 mg/L	0.714	26.27 mg/L	0.714	2.72%
Mn 257.610†	24048.1	4.074 mg/L	0.0074	4.074 mg/L	0.0074	0.18%
Mo 202.031†	44323.1	1.936 mg/L	0.0145	1.936 mg/L	0.0145	0.75%
Na 589.592†	45334.3	7.159 mg/L	0.0189	7.159 mg/L	0.0189	0.26%
Ni 231.604†	76527.6	1.643 mg/L	0.0137	1.643 mg/L	0.0137	0.83%
Pb 220.353†	17857.7	2.537 mg/L	0.0126	2.537 mg/L	0.0126	0.50%
Sb 206.836†	6603.0	1.752 mg/L	0.0154	1.752 mg/L	0.0154	0.88%
Se 196.026†	6640.6	2.532 mg/L	0.0341	2.532 mg/L	0.0341	1.35%
Sn 189.927†	9868.1	1.472 mg/L	0.0106	1.472 mg/L	0.0106	0.72%
Ti 337.279†	79391.3	4.480 mg/L	0.0182	4.480 mg/L	0.0182	0.41%
Tl 351.924†	4143.7	1.041 mg/L	0.0231	1.041 mg/L	0.0231	2.22%
V 290.880†	177775.5	2.270 mg/L	0.0030	2.270 mg/L	0.0030	0.13%
Zn 206.200†	138115.9	3.403 mg/L	0.0038	3.403 mg/L	0.0038	0.11%
Zr 343.823†	23712.4	0.0809 mg/L	0.00056	0.0809 mg/L	0.00056	0.69%

Sequence No.: 95

Sample ID: B336857-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 98

Date Collected: 4/11/2023 10:24:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140105.7	93.5 %	%	2.19			2.35%
Y axial	3019309.2	95.7 %	%	1.84			1.92%
Ag 328.068†	59483.2	0.6980 mg/L	mg/L	0.00949	0.6980 mg/L	0.00949	1.36%
Al 396.153†	379740.3	88.50 mg/L	mg/L	2.204	88.50 mg/L	2.204	2.49%
As 188.979†	3220.3	1.727 mg/L	mg/L	0.0640	1.727 mg/L	0.0640	3.71%
B 208.889†	11675.3	0.8671 mg/L	mg/L	0.03492	0.8671 mg/L	0.03492	4.03%
Ba 233.527†	297329.5	2.911 mg/L	mg/L	0.0045	2.911 mg/L	0.0045	0.15%
Be 313.107†	129649.8	0.7749 mg/L	mg/L	0.00053	0.7749 mg/L	0.00053	0.07%
Ca 317.933†	226449.5	47.05 mg/L	mg/L	1.285	47.05 mg/L	1.285	2.73%
Cd 228.802†	93654.2	2.013 mg/L	mg/L	0.0080	2.013 mg/L	0.0080	0.40%
Co 228.616†	44005.3	0.9233 mg/L	mg/L	0.03421	0.9233 mg/L	0.03421	3.71%
Cr 267.716†	146155.6	1.967 mg/L	mg/L	0.0039	1.967 mg/L	0.0039	0.20%
Cu 327.393†	220300.3	1.404 mg/L	mg/L	0.0028	1.404 mg/L	0.0028	0.20%
Fe 238.204†	13720.8	131.8 mg/L	mg/L	0.60	131.8 mg/L	0.60	0.45%
K 766.490†	35257.3	22.73 mg/L	mg/L	0.055	22.73 mg/L	0.055	0.24%
Mg 285.213†	238445.5	25.33 mg/L	mg/L	0.670	25.33 mg/L	0.670	2.64%
Mn 257.610†	23205.9	3.931 mg/L	mg/L	0.0126	3.931 mg/L	0.0126	0.32%
Mo 202.031†	42745.6	1.867 mg/L	mg/L	0.0672	1.867 mg/L	0.0672	3.60%
Na 589.592†	40687.6	6.425 mg/L	mg/L	0.0310	6.425 mg/L	0.0310	0.48%
Ni 231.604†	73799.4	1.585 mg/L	mg/L	0.0549	1.585 mg/L	0.0549	3.46%
Pb 220.353†	17225.9	2.447 mg/L	mg/L	0.0835	2.447 mg/L	0.0835	3.41%
Sb 206.836†	6245.7	1.655 mg/L	mg/L	0.0650	1.655 mg/L	0.0650	3.93%
Se 196.026†	6144.5	2.342 mg/L	mg/L	0.0908	2.342 mg/L	0.0908	3.87%
Sn 189.927†	9533.9	1.422 mg/L	mg/L	0.0473	1.422 mg/L	0.0473	3.33%
Ti 337.279†	76403.6	4.311 mg/L	mg/L	0.0299	4.311 mg/L	0.0299	0.69%
Tl 351.924†	4001.1	1.008 mg/L	mg/L	0.0479	1.008 mg/L	0.0479	4.75%
V 290.880†	171943.9	2.195 mg/L	mg/L	0.0036	2.195 mg/L	0.0036	0.16%
Zn 206.200†	122960.4	3.030 mg/L	mg/L	0.0062	3.030 mg/L	0.0062	0.20%
Zr 343.823†	23399.7	0.0798 mg/L	mg/L	0.00416	0.0798 mg/L	0.00416	5.21%

Sequence No.: 96

Sample ID: B336857-BS5

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 99

Date Collected: 4/11/2023 10:30:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BS5

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y radial	143843.5	96.0 %	0.49			0.51%
Y axial	3029936.3	96.1 %	1.14			1.19%
Ag 328.068†	69549.4	0.8161 mg/L	0.01532	0.8161 mg/L	0.01532	1.88%
Al 396.153†	430834.2	100.4 mg/L	2.03	100.4 mg/L	2.03	2.02%
As 188.979†	3792.4	2.032 mg/L	0.0650	2.032 mg/L	0.0650	3.20%
B 208.889†	13605.9	1.012 mg/L	0.0312	1.012 mg/L	0.0312	3.09%
Ba 233.527†	340061.2	3.330 mg/L	0.0055	3.330 mg/L	0.0055	0.16%
Be 313.107†	147652.3	0.8826 mg/L	0.00023	0.8826 mg/L	0.00023	0.03%
Ca 317.933†	256803.1	53.36 mg/L	1.234	53.36 mg/L	1.234	2.31%
Cd 228.802†	105320.1	2.263 mg/L	0.0038	2.263 mg/L	0.0038	0.17%
Co 228.616†	50653.4	1.063 mg/L	0.0365	1.063 mg/L	0.0365	3.43%
Cr 267.716†	164887.1	2.219 mg/L	0.0029	2.219 mg/L	0.0029	0.13%
Cu 327.393†	254500.9	1.621 mg/L	0.0020	1.621 mg/L	0.0020	0.12%
Fe 238.204†	15226.4	146.3 mg/L	0.31	146.3 mg/L	0.31	0.21%
K 766.490†	40452.3	26.08 mg/L	0.078	26.08 mg/L	0.078	0.30%
Mg 285.213†	268332.9	28.51 mg/L	0.578	28.51 mg/L	0.578	2.03%
Mn 257.610†	25285.7	4.284 mg/L	0.0064	4.284 mg/L	0.0064	0.15%
Mo 202.031†	49374.7	2.157 mg/L	0.0763	2.157 mg/L	0.0763	3.54%
Na 589.592†	46247.6	7.303 mg/L	0.0167	7.303 mg/L	0.0167	0.23%
Ni 231.604†	84028.8	1.804 mg/L	0.0038	1.804 mg/L	0.0038	0.21%
Pb 220.353†	20100.7	2.855 mg/L	0.0940	2.855 mg/L	0.0940	3.29%
Sb 206.836†	7235.1	1.920 mg/L	0.0716	1.920 mg/L	0.0716	3.73%
Se 196.026†	7199.6	2.745 mg/L	0.0884	2.745 mg/L	0.0884	3.22%
Sn 189.927†	11015.0	1.642 mg/L	0.0540	1.642 mg/L	0.0540	3.29%
Ti 337.279†	85288.7	4.812 mg/L	0.0175	4.812 mg/L	0.0175	0.36%
Tl 351.924†	4669.0	1.173 mg/L	0.0508	1.173 mg/L	0.0508	4.33%
V 290.880†	194422.8	2.483 mg/L	0.0038	2.483 mg/L	0.0038	0.15%
Zn 206.200†	139896.2	3.447 mg/L	0.0062	3.447 mg/L	0.0062	0.18%
Zr 343.823†	26271.3	0.0896 mg/L	0.00400	0.0896 mg/L	0.00400	4.46%

Sequence No.: 97

Sample ID: SEO-IFA @2211113

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 11

Date Collected: 4/11/2023 10:36:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEO-IFA @2211113

Analyte		Mean	Corrected	Calib.	Std.Dev.	Conc.	Units	Std.Dev.	RSD
		Intensity		Conc.		Units			
Y radial		134451.8		89.7 %	0.43				0.48%
Y axial		2804414.2		88.9 %	1.94				2.18%
Ag	328.068†	-280.3	-0.0033 mg/L	0.00054	-0.0033 mg/L			0.00054	16.36%
	QC value	within limits	for Ag	328.068	Recovery =	Not calculated			
Al	396.153†	1043680.2	243.4 mg/L	0.85	243.4 mg/L			0.85	0.35%
	QC value	within limits	for Al	396.153	Recovery =	97.35%			
As	188.979†	-51.4	-0.0059 mg/L	0.00141	-0.0059 mg/L			0.00141	23.72%
	QC value	within limits	for As	188.979	Recovery =	Not calculated			
B	208.889†	99.6	0.0090 mg/L	0.00142	0.0090 mg/L			0.00142	15.81%
	QC value	within limits	for B	208.889	Recovery =	Not calculated			
Ba	233.527†	358.6	0.0036 mg/L	0.00005	0.0036 mg/L			0.00005	1.35%
	QC value	within limits	for Ba	233.527	Recovery =	Not calculated			
Be	313.107†	105.7	0.0004 mg/L	0.00013	0.0004 mg/L			0.00013	33.03%
	QC value	within limits	for Be	313.107	Recovery =	Not calculated			
Ca	317.933†	1077979.7	224.0 mg/L	0.80	224.0 mg/L			0.80	0.36%
	QC value	within limits	for Ca	317.933	Recovery =	89.59%			
Cd	228.802†	11.8	0.0004 mg/L	0.00024	0.0004 mg/L			0.00024	57.48%
	QC value	within limits	for Cd	228.802	Recovery =	Not calculated			
Co	228.616†	22.2	0.0004 mg/L	0.00029	0.0004 mg/L			0.00029	64.42%
	QC value	within limits	for Co	228.616	Recovery =	Not calculated			
Cr	267.716†	-161.7	-0.0004 mg/L	0.00016	-0.0004 mg/L			0.00016	36.95%
	QC value	within limits	for Cr	267.716	Recovery =	Not calculated			
Cu	327.393†	-445.2	-0.0007 mg/L	0.00033	-0.0007 mg/L			0.00033	50.23%
	QC value	within limits	for Cu	327.393	Recovery =	Not calculated			
Fe	238.204†	9275.7	88.97 mg/L	0.490	88.97 mg/L			0.490	0.55%
	QC value	within limits	for Fe	238.204	Recovery =	88.97%			

K 766.490†	38.3	0.0247 mg/L	0.03212	0.0247 mg/L	0.03212	130.04%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1922165.9	203.9 mg/L	0.89	203.9 mg/L	0.89	0.44%
QC value within limits for Mg 285.213 Recovery = 81.57%						
Mn 257.610†	38.3	0.0065 mg/L	0.00085	0.0065 mg/L	0.00085	13.09%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-316.2	-0.0138 mg/L	0.00057	-0.0138 mg/L	0.00057	4.15%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	468.8	0.0740 mg/L	0.01216	0.0740 mg/L	0.01216	16.43%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-25.1	-0.0005 mg/L	0.00019	-0.0005 mg/L	0.00019	40.51%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-151.8	0.0004 mg/L	0.00251	0.0004 mg/L	0.00251	609.22%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	157.1	0.0037 mg/L	0.00385	0.0037 mg/L	0.00385	102.59%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	48.5	0.0184 mg/L	0.00263	0.0184 mg/L	0.00263	14.24%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-105.9	-0.0155 mg/L	0.00280	-0.0155 mg/L	0.00280	18.02%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	22.9	0.0013 mg/L	0.00112	0.0013 mg/L	0.00112	87.06%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-463.2	-0.0458 mg/L	0.00466	-0.0458 mg/L	0.00466	10.18%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	6158.2	0.0014 mg/L	0.00220	0.0014 mg/L	0.00220	157.31%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-158.5	-0.0066 mg/L	0.00028	-0.0066 mg/L	0.00028	4.23%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	786.1	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	14.66%
All analyte(s) passed QC.						

Sequence No.: 98

Sample ID: SEQ-IFB @2211114

Analyst:

Initial Sample Wt: Mg failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/11/2023 10:42:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB @2211114

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140519.0	93.7 %	1.83			1.96%
Y axial	2808720.0	89.1 %	0.39			0.44%
Ag 328.068†	32375.2	0.3800 mg/L	0.00430	0.3800 mg/L	0.00430	1.13%
QC value within limits for Ag 328.068 Recovery = 95.00%						
Al 396.153†	1005211.7	234.4 mg/L	5.43	234.4 mg/L	5.43	2.31%
QC value within limits for Al 396.153 Recovery = 93.76%						
As 188.979†	272.6	0.1722 mg/L	0.00091	0.1722 mg/L	0.00091	0.53%
QC value within limits for As 188.979 Recovery = 86.11%						
B 208.889†	89.3	0.0082 mg/L	0.00140	0.0082 mg/L	0.00140	17.19%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	95026.2	0.9308 mg/L	0.00082	0.9308 mg/L	0.00082	0.09%
QC value within limits for Ba 233.527 Recovery = 93.08%						
Be 313.107†	148529.4	0.8919 mg/L	0.01965	0.8919 mg/L	0.01965	2.20%
QC value within limits for Be 313.107 Recovery = 89.19%						
Ca 317.933†	1046043.7	217.3 mg/L	4.83	217.3 mg/L	4.83	2.22%
QC value within limits for Ca 317.933 Recovery = 86.93%						
Cd 228.802†	88084.5	1.902 mg/L	0.0034	1.902 mg/L	0.0034	0.18%
QC value within limits for Cd 228.802 Recovery = 95.09%						
Co 228.616†	39615.2	0.8360 mg/L	0.00467	0.8360 mg/L	0.00467	0.56%
QC value within limits for Co 228.616 Recovery = 83.60%						
Cr 267.716†	66816.7	0.9002 mg/L	0.00167	0.9002 mg/L	0.00167	0.19%
QC value within limits for Cr 267.716 Recovery = 90.02%						
Cu 327.393†	147493.4	0.9362 mg/L	0.00165	0.9362 mg/L	0.00165	0.18%
QC value within limits for Cu 327.393 Recovery = 93.62%						
Fe 238.204†	8808.1	84.49 mg/L	1.792	84.49 mg/L	1.792	2.12%
QC value within limits for Fe 238.204 Recovery = 84.49%						
K 766.490†	71.8	0.0463 mg/L	0.00841	0.0463 mg/L	0.00841	18.17%

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y radial	140867.2	94.0	%	0.98			1.04%
Y axial	3044096.1	96.5	%	0.90			0.93%
Ag 328.068†	187567.1	2.184	mg/L	0.0231	2.184	mg/L	1.06%
QC value	less than the lower limit for Ag 328.068			Recovery = 87.37%			
Al 396.153†	41268.5	9.439	mg/L	0.0183	9.439	mg/L	0.19%
QC value	within limits for Al 396.153			Recovery = 94.39%			
As 188.979†	8749.5	4.626	mg/L	0.0281	4.626	mg/L	0.61%
QC value	within limits for As 188.979			Recovery = 92.52%			
B 208.889†	55727.9	4.358	mg/L	0.0215	4.358	mg/L	0.49%
QC value	less than the lower limit for B 208.889			Recovery = 87.16%			
Ba 233.527†	490982.7	4.809	mg/L	0.0156	4.809	mg/L	0.32%
QC value	within limits for Ba 233.527			Recovery = 96.18%			
Be 313.107†	764776.0	4.598	mg/L	0.0018	4.598	mg/L	0.04%
QC value	within limits for Be 313.107			Recovery = 91.96%			
Ca 317.933†	44729.6	9.293	mg/L	0.0140	9.293	mg/L	0.15%
QC value	within limits for Ca 317.933			Recovery = 92.93%			
Cd 228.802†	221160.0	4.761	mg/L	0.0126	4.761	mg/L	0.26%
QC value	within limits for Cd 228.802			Recovery = 95.23%			
Co 228.616†	222558.7	4.700	mg/L	0.0140	4.700	mg/L	0.30%
QC value	within limits for Co 228.616			Recovery = 94.01%			
Cr 267.716†	354150.4	4.762	mg/L	0.0188	4.762	mg/L	0.39%
QC value	within limits for Cr 267.716			Recovery = 95.25%			
Cu 327.393†	739744.8	4.701	mg/L	0.0145	4.701	mg/L	0.31%
QC value	within limits for Cu 327.393			Recovery = 94.01%			
Fe 238.204†	460.9	4.449	mg/L	0.0720	4.449	mg/L	1.62%
QC value	less than the lower limit for Fe 238.204			Recovery = 88.97%			
K 766.490†	15200.7	9.798	mg/L	0.0474	9.798	mg/L	0.48%
QC value	within limits for K 766.490			Recovery = 97.98%			

Method: ICP3 IEC040523

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Date: 4/11/2023 10:55:58 PM

Mg	285.213†	91240.4	9.577 mg/L	0.0120	9.577 mg/L	0.0120	0.13%
	QC value within limits for Mg 285.213 Recovery = 95.77%						
Mn	257.610†	27796.9	4.709 mg/L	0.0116	4.709 mg/L	0.0116	0.25%
	QC value within limits for Mn 257.610 Recovery = 94.18%						
Mo	202.031†	108353.2	4.733 mg/L	0.0217	4.733 mg/L	0.0217	0.46%
	QC value within limits for Mo 202.031 Recovery = 94.66%						
Na	589.592†	62834.4	9.922 mg/L	0.0060	9.922 mg/L	0.0060	0.06%
	QC value within limits for Na 589.592 Recovery = 99.22%						
Ni	231.604†	220575.5	4.736 mg/L	0.0218	4.736 mg/L	0.0218	0.46%
	QC value within limits for Ni 231.604 Recovery = 94.72%						
Pb	220.353†	33223.6	4.718 mg/L	0.0362	4.718 mg/L	0.0362	0.77%
	QC value within limits for Pb 220.353 Recovery = 94.36%						
Sb	206.836†	16964.4	4.574 mg/L	0.0144	4.574 mg/L	0.0144	0.31%
	QC value within limits for Sb 206.836 Recovery = 91.49%						
Se	196.026†	12036.2	4.587 mg/L	0.0364	4.587 mg/L	0.0364	0.79%
	QC value within limits for Se 196.026 Recovery = 91.73%						
Sn	189.927†	32229.4	4.755 mg/L	0.0180	4.755 mg/L	0.0180	0.38%
	QC value within limits for Sn 189.927 Recovery = 95.11%						
Ti	337.279†	83043.9	4.683 mg/L	0.0054	4.683 mg/L	0.0054	0.12%
	QC value within limits for Ti 337.279 Recovery = 93.66%						
Tl	351.924†	12872.4	2.994 mg/L	0.0293	2.994 mg/L	0.0293	0.98%
	QC value greater than the upper limit for Tl 351.924 Recovery = 119.76%						
V	290.880†	391193.8	5.057 mg/L	0.0215	5.057 mg/L	0.0215	0.43%
	QC value within limits for V 290.880 Recovery = 101.13%						
Zn	206.200†	198992.7	4.923 mg/L	0.0240	4.923 mg/L	0.0240	0.49%
	QC value within limits for Zn 206.200 Recovery = 98.47%						
Zr	343.823†	1337932.1	4.770 mg/L	0.0194	4.770 mg/L	0.0194	0.41%
	QC Failed. Retry.						

Sequence No.: 100

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 10:53:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	139084.3	92.8 %	1.48			1.59%
Y axial	3025967.5	96.0 %	0.37			0.39%
Ag 328.068†	190039.2	2.213 mg/L	0.0291	2.213 mg/L	0.0291	1.31%
	QC value less than the lower limit for Ag 328.068 Recovery = 88.53%					
Al 396.153†	41384.6	9.465 mg/L	0.0572	9.465 mg/L	0.0572	0.60%
	QC value within limits for Al 396.153 Recovery = 94.65%					
As 188.979†	8759.6	4.632 mg/L	0.0673	4.632 mg/L	0.0673	1.45%
	QC value within limits for As 188.979 Recovery = 92.63%					
B 208.889†	55924.1	4.373 mg/L	0.0388	4.373 mg/L	0.0388	0.89%
	QC value less than the lower limit for B 208.889 Recovery = 87.46%					
Ba 233.527†	492588.9	4.825 mg/L	0.0043	4.825 mg/L	0.0043	0.09%
	QC value within limits for Ba 233.527 Recovery = 96.50%					
Be 313.107†	768881.1	4.622 mg/L	0.0053	4.622 mg/L	0.0053	0.12%
	QC value within limits for Be 313.107 Recovery = 92.45%					
Ca 317.933†	44872.1	9.323 mg/L	0.0099	9.323 mg/L	0.0099	0.11%
	QC value within limits for Ca 317.933 Recovery = 93.23%					
Cd 228.802†	221966.6	4.779 mg/L	0.0015	4.779 mg/L	0.0015	0.03%
	QC value within limits for Cd 228.802 Recovery = 95.58%					
Co 228.616†	223377.5	4.718 mg/L	0.0046	4.718 mg/L	0.0046	0.10%
	QC value within limits for Co 228.616 Recovery = 94.35%					
Cr 267.716†	355511.2	4.781 mg/L	0.0043	4.781 mg/L	0.0043	0.09%
	QC value within limits for Cr 267.716 Recovery = 95.61%					
Cu 327.393†	744766.3	4.732 mg/L	0.0045	4.732 mg/L	0.0045	0.10%
	QC value within limits for Cu 327.393 Recovery = 94.65%					
Fe 238.204†	470.6	4.542 mg/L	0.0754	4.542 mg/L	0.0754	1.66%
	QC value within limits for Fe 238.204 Recovery = 90.83%					
K 766.490†	15319.1	9.875 mg/L	0.0633	9.875 mg/L	0.0633	0.64%
	QC value within limits for K 766.490 Recovery = 98.75%					
Mg 285.213†	91416.7	9.595 mg/L	0.0390	9.595 mg/L	0.0390	0.41%

QC value within limits for Mg 285.213	Recovery = 95.95%				
Mn 257.610†	27869.2	4.721 mg/L	0.0034	4.721 mg/L	0.0034 0.07%
QC value within limits for Mn 257.610	Recovery = 94.43%				
Mo 202.031†	108832.0	4.754 mg/L	0.0047	4.754 mg/L	0.0047 0.10%
QC value within limits for Mo 202.031	Recovery = 95.07%				
Na 589.592†	63287.7	9.994 mg/L	0.0283	9.994 mg/L	0.0283 0.28%
QC value within limits for Na 589.592	Recovery = 99.94%				
Ni 231.604†	221548.3	4.757 mg/L	0.0039	4.757 mg/L	0.0039 0.08%
QC value within limits for Ni 231.604	Recovery = 95.14%				
Pb 220.353†	33303.7	4.730 mg/L	0.0559	4.730 mg/L	0.0559 1.18%
QC value within limits for Pb 220.353	Recovery = 94.59%				
Sb 206.836†	16929.5	4.564 mg/L	0.0428	4.564 mg/L	0.0428 0.94%
QC value within limits for Sb 206.836	Recovery = 91.29%				
Se 196.026†	11916.2	4.541 mg/L	0.0489	4.541 mg/L	0.0489 1.08%
QC value within limits for Se 196.026	Recovery = 90.82%				
Sn 189.927†	32222.3	4.754 mg/L	0.0619	4.754 mg/L	0.0619 1.30%
QC value within limits for Sn 189.927	Recovery = 95.09%				
Ti 337.279†	83347.3	4.700 mg/L	0.0157	4.700 mg/L	0.0157 0.33%
QC value within limits for Ti 337.279	Recovery = 94.01%				
Tl 351.924†	12891.6	2.999 mg/L	0.0273	2.999 mg/L	0.0273 0.91%
QC value greater than the upper limit for Tl 351.924	Recovery = 119.94%				
V 290.880†	392201.2	5.070 mg/L	0.0076	5.070 mg/L	0.0076 0.15%
QC value within limits for V 290.880	Recovery = 101.40%				
Zn 206.200†	199385.9	4.933 mg/L	0.0043	4.933 mg/L	0.0043 0.09%
QC value within limits for Zn 206.200	Recovery = 98.66%				
Zr 343.823†	1343935.3	4.791 mg/L	0.0048	4.791 mg/L	0.0048 0.10%
QC Failed. Continue with analysis.					

Sequence No.: 101

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 10:59:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	138459.3	92.4 %	0.94			1.02%
Y axial	3054048.6	96.8 %	1.13			1.17%
Ag 328.068†	818.8	0.0096 mg/L	0.00080	0.0096 mg/L	0.00080	8.34%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-7.0	-0.0017 mg/L	0.00826	-0.0017 mg/L	0.00826	491.43%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	-1.6	-0.0008 mg/L	0.00184	-0.0008 mg/L	0.00184	219.07%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	328.7	0.0271 mg/L	0.00031	0.0271 mg/L	0.00031	1.16%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	12.4	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	63.15%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	112.8	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	17.09%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	-1.8	-0.0004 mg/L	0.00082	-0.0004 mg/L	0.00082	218.31%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	22.1	0.0005 mg/L	0.00018	0.0005 mg/L	0.00018	37.19%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	3.0	0.0001 mg/L	0.00018	0.0001 mg/L	0.00018	278.49%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	45.4	0.0006 mg/L	0.00007	0.0006 mg/L	0.00007	12.21%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	260.9	0.0017 mg/L	0.00029	0.0017 mg/L	0.00029	17.29%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	1.9	0.0182 mg/L	0.00260	0.0182 mg/L	0.00260	14.30%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-32.2	-0.0208 mg/L	0.01948	-0.0208 mg/L	0.01948	93.86%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	37.6	0.0040 mg/L	0.00022	0.0040 mg/L	0.00022	5.51%
QC value within limits for Mg 285.213	Recovery = Not calculated					

Mn 257.610†	-3.4	-0.0006 mg/L	0.00057	-0.0006 mg/L	0.00057	97.44%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	34.0	0.0015 mg/L	0.00009	0.0015 mg/L	0.00009	5.75%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	92.9	0.0147 mg/L	0.00152	0.0147 mg/L	0.00152	10.38%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	-1.3	-0.0000 mg/L	0.00022	-0.0000 mg/L	0.00022	745.51%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	37.4	0.0053 mg/L	0.00054	0.0053 mg/L	0.00054	10.14%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	22.8	0.0063 mg/L	0.00102	0.0063 mg/L	0.00102	16.25%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	4.1	0.0016 mg/L	0.00221	0.0016 mg/L	0.00221	140.62%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	5.9	0.0009 mg/L	0.00115	0.0009 mg/L	0.00115	131.93%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	12.2	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	30.84%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 351.924†	17.0	0.0040 mg/L	0.00657	0.0040 mg/L	0.00657	163.92%
QC value within limits for Tl 351.924	Recovery = Not calculated					
V 290.880†	39.1	0.0005 mg/L	0.00013	0.0005 mg/L	0.00013	25.38%
QC value within limits for V 290.880	Recovery = Not calculated					
Zn 206.200†	63.0	0.0016 mg/L	0.00007	0.0016 mg/L	0.00007	4.59%
QC value within limits for Zn 206.200	Recovery = Not calculated					
Zr 343.823†	102.8	0.0004 mg/L	0.00024	0.0004 mg/L	0.00024	65.56%

All analyte(s) passed QC.

ICP

SAMPLE DATA

447

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-01
Sampled:	03/28/23 10:02		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:13	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:13	SW-846 6010D
7440-50-8	Copper	0.0075	0.0036	0.010	1	J	B335766	04/11/23 16:13	SW-846 6010D
7440-02-0	Nickel	0.014	0.0098	0.010	1		B335766	04/11/23 16:13	SW-846 6010D

448

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-02
Sampled:	03/28/23 10:50		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:07	SW-846 6010D
7440-47-3	Chromium	0.27	0.0068	0.010	1		B335766	04/11/23 16:07	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:07	SW-846 6010D
7440-02-0	Nickel	0.68	0.0098	0.010	1		B335766	04/11/23 16:07	SW-846 6010D

449

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-03
Sampled:	03/28/23 11:40		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:20	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:20	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:20	SW-846 6010D
7440-02-0	Nickel		0.0098	0.010	1		B335766	04/11/23 16:20	SW-846 6010D

450

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-04
Sampled:	03/28/23 12:34		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:26	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:26	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:26	SW-846 6010D
7440-02-0	Nickel		0.0098	0.010	1		B335766	04/11/23 16:26	SW-846 6010D

451

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-05
Sampled:	03/28/23 13:25		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:32	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:32	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:32	SW-846 6010D
7440-02-0	Nickel		0.0098	0.010	1		B335766	04/11/23 16:32	SW-846 6010D

1 - FORM I
ANALYSIS DATA SHEET

452

FieldBlank_20230328

Laboratory: Pace New England SDG: 23C3284
Client: NYDEC_Environmental Assessment & Remediation Project: Genzale Plating Co. - CO 144183
Matrix: Ground Water Laboratory ID: 23C3284-06
Sampled: 03/28/23 13:45
% Solids: 0.00

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:51	SW-846 6010D
7440-47-3	Chromium		0.0068	0.010	1		B335766	04/11/23 16:51	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:51	SW-846 6010D
7440-02-0	Nickel		0.0098	0.010	1		B335766	04/11/23 16:51	SW-846 6010D

453

Laboratory:	Pace New England	SDG:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Ground Water	Laboratory ID:	23C3284-08
Sampled:	03/28/23 00:00		
% Solids:	0.00		

CAS NO.	Analyte	Concentration (mg/L)	MDL	RL	DF	Q	Batch	Analyzed	Method
7440-43-9	Cadmium		0.0018	0.0040	1		B335766	04/11/23 16:57	SW-846 6010D
7440-47-3	Chromium	0.28	0.0068	0.010	1		B335766	04/11/23 16:57	SW-846 6010D
7440-50-8	Copper		0.0036	0.010	1		B335766	04/11/23 16:57	SW-846 6010D
7440-02-0	Nickel	0.66	0.0098	0.010	1		B335766	04/11/23 16:57	SW-846 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	ICP3	Calibration:	2300441
		Sequence:	S085872

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S085872-ICV1	Cadmium	2.00	2.06	103	mg/L	+/- 10.00%
	Chromium	2.00	2.05	103	mg/L	+/- 10.00%
	Copper	2.00	2.03	102	mg/L	+/- 10.00%
	Nickel	2.00	2.08	104	mg/L	+/- 10.00%
S085872-CCV1	Cadmium	5.00	5.00	100	mg/L	+/- 10.00%
	Chromium	5.00	5.00	100	mg/L	+/- 10.00%
	Copper	5.00	4.95	99.1	mg/L	+/- 10.00%
	Nickel	5.00	5.02	100	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Instrument ID:	ICP3	Calibration:	2300441
		Sequence:	S085874

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S085874-CCV1	Cadmium	5.00	5.06	101	mg/L	+/- 10.00%
	Chromium	5.00	5.07	101	mg/L	+/- 10.00%
	Copper	5.00	4.97	99.5	mg/L	+/- 10.00%
	Nickel	5.00	5.07	101	mg/L	+/- 10.00%
S085874-CCV2	Cadmium	5.00	4.95	98.9	mg/L	+/- 10.00%
	Chromium	5.00	4.98	99.7	mg/L	+/- 10.00%
	Copper	5.00	4.82	96.4	mg/L	+/- 10.00%
	Nickel	5.00	4.99	99.7	mg/L	+/- 10.00%
S085874-CCV3	Cadmium	5.00	4.83	96.7	mg/L	+/- 10.00%
	Chromium	5.00	4.86	97.3	mg/L	+/- 10.00%
	Copper	5.00	4.74	94.7	mg/L	+/- 10.00%
	Nickel	5.00	4.86	97.3	mg/L	+/- 10.00%
S085874-CCV4	Cadmium	5.00	4.80	95.9	mg/L	+/- 10.00%
	Chromium	5.00	4.82	96.4	mg/L	+/- 10.00%
	Copper	5.00	4.72	94.5	mg/L	+/- 10.00%
	Nickel	5.00	4.81	96.2	mg/L	+/- 10.00%

LOW-CONCENTRATION CALIBRATION VERIFICATION

456

SW-846 6010D**Laboratory:** Pace New England**SDG:** 23C3284**Client:** NYDEC_Environmental Assessment & Remediation**Project:** Genzale Plating Co. - CO 144183**Calibration:** 2300441**Laboratory ID:** S085872-LCV1**Sequence:** S085872**Standard ID:** 2211109

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Cadmium	0.00400	0.00443	10.6	20.00
Chromium	0.0100	0.0110	10.1	20.00
Copper	0.0100	0.0115	14.7	20.00
Nickel	0.0100	0.0107	6.8	20.00

* Values outside of QC limits

FORM 3 - Blank Summary

457

SW-846 6010D

Laboratory: Pace New England

Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remediation Project: Genzale Plating Co. - CO 144183

Instrument ID: ICP3

Calibration: 2300441

Sequence: S085872

Lab Sample ID	Analyte	Found	Units	RL	C
S085872-ICB1	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U

FORM 3 - Blank Summary

458

SW-846 6010D

Laboratory: Pace New England Work Order: 23C3284
Client: NYDEC_Environmental Assessment & Remediation Project: Genzale Plating Co. - CO 144183
Instrument ID: ICP3 Calibration: 2300441
Sequence: S085874

Lab Sample ID	Analyte	Found	Units	RL	C
S085874-CCB1	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U
B335766-BLK1	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U
S085874-CCB2	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U
S085874-CCB3	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U
S085874-CCB4	Cadmium		mg/L	0.0040	U
	Chromium		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Nickel		mg/L	0.010	U

INTERFERENCE CHECK SAMPLE

459

SW-846 6010D

Laboratory: Pace New England

Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remediation

Project: Genzale Plating Co. - CO 144183

Instrument ID: ICP3

Calibration: 2300441

Sequence: S085874

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S085874-IFA1	Cadmium	0.0040		0.00		mg/L
	Chromium	0.010		0.00		mg/L
	Copper	0.010		0.00		mg/L
	Nickel	0.010		0.00		mg/L
S085874-IFB1	Cadmium	0.0040	2.00	2.04	102	mg/L
	Chromium	0.010	1.00	0.96	96.5	mg/L
	Copper	0.010	1.00	1.00	100	mg/L
	Nickel	0.010	2.00	1.83	91.3	mg/L
S085874-IFA2	Cadmium	0.0040		0.00		mg/L
	Chromium	0.010		0.00		mg/L
	Copper	0.010		0.00		mg/L
	Nickel	0.010		0.00		mg/L
S085874-IFB2	Cadmium	0.0040	2.00	1.98	99.1	mg/L
	Chromium	0.010	1.00	0.94	94.3	mg/L
	Copper	0.010	1.00	0.96	96.4	mg/L
	Nickel	0.010	2.00	1.77	88.3	mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

460

MW-18S

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Analysis:	SW-846 6010D
Batch:	B335766	Preparation:	SW-846 3005A
% Solids:		Laboratory ID:	B335766-MS1
Column:		Sample Lab ID:	23C3284-02

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	QC LIMITS REC.
Cadmium	0.500	ND	0.491	98.3	75 - 125
Chromium	0.500	0.275	0.747	94.4	75 - 125
Copper	1.00	ND	0.928	92.8	75 - 125
Nickel	0.500	0.676	1.13	90.4	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	QC LIMITS	
					RPD	REC.
Cadmium	0.500	0.516	103	4.78	20	75 - 125
Chromium	0.500	0.777	100	3.99	20	75 - 125
Copper	1.00	0.977	97.7	5.19	20	75 - 125
Nickel	0.500	1.17	98.1	3.34	20	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	23C3284
Client:	NYDEC_Environmental Assessment & Remediation	Project:	Genzale Plating Co. - CO 144183
Matrix:	Water	Preparation:	SW-846 3005A
Batch:	B335766	Laboratory ID:	B335766-BS1
Column:		Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Cadmium	0.500	0.509	102	80 - 120
Chromium	0.500	0.504	101	80 - 120
Copper	1.00	0.944	94.4	80 - 120
Nickel	0.500	0.513	103	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Cadmium	0.500	0.507	101	0.290	20	80 - 120
Chromium	0.500	0.504	101	0.0789	20	80 - 120
Copper	1.00	0.946	94.6	0.294	20	80 - 120
Nickel	0.500	0.510	102	0.582	30	80 - 120

METHOD DETECTION AND REPORTING LIMITS

462

Laboratory: Pace New England

Work Order: 23C3284

Client: NYDEC_Environmental Assessment & Remediation

Matrix: Water

Instrument: ICP3

Analyte	MDL	MRL	Units	Method
Cadmium	0.0018	0.0040	mg/L	SW-846 6010D
Chromium	0.0068	0.010	mg/L	SW-846 6010D
Copper	0.0036	0.010	mg/L	SW-846 6010D
Nickel	0.0098	0.010	mg/L	SW-846 6010D

PREPARATION BATCH SUMMARY

463

SW-846 6010D

Laboratory: Pace New England Work Order: 23C3284
 Client: NYDEC_Environmental Assessment & Remediation Project: Genzale Plating Co. - CO 144183
 Batch: B335766 Batch Matrix: Water Preparation: SW-846 3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MW-15S	23C3284-01	03/31/23 10:10	50.00	50.00
MW-18S	23C3284-02	03/31/23 10:10	50.00	50.00
MW-3S	23C3284-03	03/31/23 10:10	50.00	50.00
MW-17S	23C3284-04	03/31/23 10:10	50.00	50.00
MW-19S	23C3284-05	03/31/23 10:10	50.00	50.00
FieldBlank_20230328	23C3284-06	03/31/23 10:10	50.00	50.00
MW-X	23C3284-08	03/31/23 10:10	50.00	50.00
Blank	B335766-BLK1	03/31/23 10:10	50.00	50.00
LCS	B335766-BS1	03/31/23 10:10	50.00	50.00
LCS Dup	B335766-BSD1	03/31/23 10:10	50.00	50.00
MW-18S	B335766-MS1	03/31/23 10:10	50.00	50.00
MW-18S	B335766-MSD1	03/31/23 10:10	50.00	50.00

S085872

Instrument: ICP3

Calibration ID: 2300441

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S085872-CAL1	QC		1		2211107	2304167	
S085872-CAL2	QC		2		2211088	2304167	
S085872-CAL3	QC		3		2211089	2304167	
S085872-CAL4	QC		4		2211090	2304167	
S085872-CAL5	QC		5		2211091	2304167	
S085872-CAL6	QC		6		2211092	2304167	
S085872-ICV1	QC		7		2211094	2304167	
S085872-ICV2	QC		8		2211108	2304167	
S085872-ICB1	QC		9		2211096	2304167	
S085872-LCV1	QC		10		2211109	2304167	
S085872-LCV2	QC		11		2211112	2304167	
S085872-LCV3	QC		12		2301638	2304167	
S085872-CCV1	QC		13		2211103	2304167	
S085872-IFA1	QC		14		2211113	2304167	
S085872-IFB1	QC		15		2304164	2304167	
S085872-HCV1	QC		16		2303666	2304167	
S085872-HCV2	QC		17		2303569	2304167	

Samples Loaded By

Date

Data Processed By

Date

2.5	15.0	20354.9
3.0	15.0	21579.1
3.5	15.0	9779.2
4.0	15.0	831.1
4.5	15.0	1263.2
5.0	15.0	2139.1
5.5	15.0	2393.3
6.0	15.0	2541.9
6.5	15.0	1981.8

4/11/2023 8:29:33 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 44409.6 for Radial viewing

Method Loaded

Method Name: ICP3 IEC 030523

IEC File: 0402A23.iec

Method Description: Soils and Waters

Method Last Saved: 4/6/2023 10:17:43 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 1

Sample ID: Cal Blank@2211107

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2023 8:33:45 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: Cal Blank@2211107

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Y radial	149490.5	1973.19	1.32%	100 %	
Y axial	3154584.0	17915.72	0.57%	100 %	
Ag 328.068†	100.3	41.49	41.35%	[0.00] mg/L	
Al 396.153†	46.7	22.45	48.08%	[0.00] mg/L	
As 188.979†	-48.3	4.12	8.54%	[0.00] mg/L	
B 208.889†	204.5	9.81	4.80%	[0.00] mg/L	
Ba 233.527†	-318.6	6.97	2.19%	[0.00] mg/L	
Be 313.107†	499.1	7.32	1.47%	[0.00] mg/L	
Ca 317.933†	726.6	11.59	1.60%	[0.00] mg/L	

Cd 228.802†	115.2	7.79	6.76%	[0.00]	mg/L
Co 228.616†	-43.9	3.99	9.11%	[0.00]	mg/L
Cr 267.716†	207.5	8.48	4.09%	[0.00]	mg/L
Cu 327.393†	-283.9	31.35	11.04%	[0.00]	mg/L
Fe 238.204†	28.1	1.36	4.82%	[0.00]	mg/L
K 766.490†	378.1	21.68	5.73%	[0.00]	mg/L
Mg 285.213†	85.7	2.35	2.74%	[0.00]	mg/L
Mn 257.610†	-88.3	7.83	8.88%	[0.00]	mg/L
Mo 202.031†	-1.5	6.71	441.83%	[0.00]	mg/L
Na 589.592†	385.7	7.39	1.92%	[0.00]	mg/L
Ni 231.604†	26.6	5.21	19.57%	[0.00]	mg/L
Pb 220.353†	43.0	3.93	9.14%	[0.00]	mg/L
Sb 206.836†	130.7	11.26	8.62%	[0.00]	mg/L
Se 196.026†	-20.4	8.93	43.79%	[0.00]	mg/L
Sn 189.927†	50.8	1.56	3.08%	[0.00]	mg/L
Ti 337.279†	-150.2	2.20	1.47%	[0.00]	mg/L
Tl 351.924†	83.6	61.53	73.58%	[0.00]	mg/L
V 290.880†	1103.5	10.70	0.97%	[0.00]	mg/L
Zn 206.200†	-306.1	7.25	2.37%	[0.00]	mg/L
Zr 343.823†	207.4	29.64	14.29%	[0.00]	mg/L

User canceled analysis.

Method Loaded

Method Name: ICP3 IEC040523

IEC File: 0402A23.iec

Method Description: Soils and Waters

Method Last Saved: 4/5/2023 7:54:32 PM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 1

Sample ID: Cal Blank@2211107

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2023 8:41:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: Cal Blank@2211107

Mean Corrected

Calib

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y radial	149891.7	1805.79	1.20%	100	%
Y axial	3153441.2	25098.95	0.80%	100	%
Ag 328.068†	73.7	71.12	96.49%	[0.00]	mg/L
Al 396.153†	49.8	26.33	52.93%	[0.00]	mg/L
As 188.979†	-51.4	2.74	5.34%	[0.00]	mg/L
B 208.889†	199.8	2.27	1.14%	[0.00]	mg/L
Ba 233.527†	-313.2	5.96	1.90%	[0.00]	mg/L
Be 313.107†	508.6	12.15	2.39%	[0.00]	mg/L
Ca 317.933†	741.8	16.42	2.21%	[0.00]	mg/L
Cd 228.802†	111.0	1.04	0.93%	[0.00]	mg/L
Co 228.616†	-42.3	6.04	14.28%	[0.00]	mg/L
Cr 267.716†	214.4	15.39	7.18%	[0.00]	mg/L
Cu 327.393†	-252.8	46.48	18.39%	[0.00]	mg/L
Fe 238.204†	26.3	0.82	3.11%	[0.00]	mg/L
K 766.490†	289.8	36.32	12.53%	[0.00]	mg/L
Mg 285.213†	81.4	2.36	2.90%	[0.00]	mg/L
Mn 257.610†	-101.1	3.29	3.25%	[0.00]	mg/L
Mo 202.031†	1.8	1.25	68.91%	[0.00]	mg/L
Na 589.592†	361.3	75.24	20.82%	[0.00]	mg/L
Ni 231.604†	25.9	6.98	26.94%	[0.00]	mg/L
Pb 220.353†	31.4	5.66	18.05%	[0.00]	mg/L
Sb 206.836†	126.0	3.70	2.94%	[0.00]	mg/L
Se 196.026†	-26.8	5.45	20.30%	[0.00]	mg/L
Sn 189.927†	53.9	4.77	8.86%	[0.00]	mg/L
Ti 337.279†	-153.3	8.19	5.35%	[0.00]	mg/L
Tl 351.924†	89.3	63.90	71.53%	[0.00]	mg/L
V 290.880†	1132.4	7.49	0.66%	[0.00]	mg/L
Zn 206.200†	-302.2	8.40	2.78%	[0.00]	mg/L
Zr 343.823†	206.0	8.39	4.07%	[0.00]	mg/L

Sequence No.: 2

Sample ID: SEQ-CAL1@2211088

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

User canceled analysis.

Autosampler Location: 2

Date Collected: 4/11/2023 8:47:25 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Sequence No.: 1

Sample ID: Cal Blank@2211107

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 1

Date Collected: 4/11/2023 8:48:31 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: Cal Blank@2211107

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	152776.6	2862.80	1.87%	102	%
Y axial	3239273.5	60916.95	1.88%	103	%
Ag 328.068†	70.4	11.99	17.03%	[0.00]	mg/L
Al 396.153†	54.7	22.40	40.95%	[0.00]	mg/L
As 188.979†	-47.9	2.18	4.56%	[0.00]	mg/L
B 208.889†	192.9	6.78	3.51%	[0.00]	mg/L
Ba 233.527†	-316.9	7.21	2.28%	[0.00]	mg/L
Be 313.107†	483.4	20.51	4.24%	[0.00]	mg/L
Ca 317.933†	734.7	15.15	2.06%	[0.00]	mg/L
Cd 228.802†	106.1	5.87	5.53%	[0.00]	mg/L
Co 228.616†	-47.3	4.27	9.04%	[0.00]	mg/L
Cr 267.716†	211.7	3.00	1.42%	[0.00]	mg/L
Cu 327.393†	-314.1	7.85	2.50%	[0.00]	mg/L
Fe 238.204†	26.5	1.53	5.79%	[0.00]	mg/L
K 766.490†	321.7	42.88	13.33%	[0.00]	mg/L
Mg 285.213†	90.5	3.41	3.77%	[0.00]	mg/L
Mn 257.610†	-98.6	6.10	6.18%	[0.00]	mg/L
Mo 202.031†	4.1	0.95	22.97%	[0.00]	mg/L

Na 589.592†	345.0	68.47	19.85%	[0.00]	mg/L
Ni 231.604†	25.4	13.81	54.29%	[0.00]	mg/L
Pb 220.353†	31.2	11.97	38.36%	[0.00]	mg/L
Sb 206.836†	127.0	5.52	4.35%	[0.00]	mg/L
Se 196.026†	-21.2	6.16	29.06%	[0.00]	mg/L
Sn 189.927†	58.6	6.77	11.54%	[0.00]	mg/L
Ti 337.279†	-137.5	5.03	3.66%	[0.00]	mg/L
Tl 351.924†	49.3	23.82	48.36%	[0.00]	mg/L
V 290.880†	1124.3	16.02	1.42%	[0.00]	mg/L
Zn 206.200†	-293.2	11.00	3.75%	[0.00]	mg/L
Zr 343.823†	231.0	24.54	10.63%	[0.00]	mg/L

Sequence No.: 2

Sample ID: SEQ-CAL1@2211088

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 2

Date Collected: 4/11/2023 8:54:21 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL1@2211088

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151799.5	1019.71	0.67%	101	%
Y axial	3133012.7	23206.16	0.74%	99.4	%
Ag 328.068†	6126.5	114.82	1.87%	[0.0625]	mg/L
Al 396.153†	1137.5	6.14	0.54%	[0.25]	mg/L
As 188.979†	246.5	1.36	0.55%	[0.125]	mg/L
B 208.889†	1497.6	16.63	1.11%	[0.125]	mg/L
Ba 233.527†	13598.4	166.93	1.23%	[0.125]	mg/L
Be 313.107†	21546.8	59.19	0.27%	[0.125]	mg/L
Cd 228.802†	6180.6	61.70	1.00%	[0.125]	mg/L
Co 228.616†	6307.7	64.51	1.02%	[0.125]	mg/L
Cr 267.716†	9864.0	111.01	1.13%	[0.125]	mg/L
Cu 327.393†	19869.2	169.47	0.85%	[0.125]	mg/L
Fe 238.204†	12.8	1.67	13.11%	[0.125]	mg/L
Mg 285.213†	2481.0	20.78	0.84%	[0.25]	mg/L
Mn 257.610†	763.8	10.27	1.34%	[0.125]	mg/L
Mo 202.031†	2922.4	24.47	0.84%	[0.125]	mg/L
Ni 231.604†	6204.8	138.21	2.23%	[0.125]	mg/L
Pb 220.353†	949.1	15.87	1.67%	[0.125]	mg/L
Sb 206.836†	458.2	5.78	1.26%	[0.125]	mg/L
Se 196.026†	336.9	4.52	1.34%	[0.125]	mg/L
Sn 189.927†	867.6	7.54	0.87%	[0.125]	mg/L
Ti 337.279†	2174.4	21.95	1.01%	[0.125]	mg/L
Tl 351.924†	349.4	2.02	0.58%	[0.0625]	mg/L
V 290.880†	10278.9	66.22	0.64%	[0.125]	mg/L
Zn 206.200†	5314.2	49.05	0.92%	[0.125]	mg/L
Zr 343.823†	34751.4	236.18	0.68%	[0.125]	mg/L

Sequence No.: 3

Sample ID: SEQ-CAL2@2211089

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 3

Date Collected: 4/11/2023 9:02:03 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL2@2211089

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151468.5	1393.00	0.92%	101	%
Y axial	3209160.7	68038.73	2.12%	102	%
Ag 328.068†	23891.8	412.34	1.73%	[0.25]	mg/L
Al 396.153†	4447.7	21.75	0.49%	[1]	mg/L
As 188.979†	936.1	23.67	2.53%	[0.5]	mg/L
B 208.889†	5783.3	145.24	2.51%	[0.5]	mg/L
Ba 233.527†	52353.0	1070.74	2.05%	[0.5]	mg/L

Be 313.107†	85610.0	167.22	0.20%	[0.5] mg/L
Ca 317.933†	5026.9	47.43	0.94%	[1] mg/L
Cd 228.802†	23684.6	543.09	2.29%	[0.5] mg/L
Co 228.616†	24411.2	460.45	1.89%	[0.5] mg/L
Cr 267.716†	37931.3	777.76	2.05%	[0.5] mg/L
Cu 327.393†	78190.6	1437.73	1.84%	[0.5] mg/L
Fe 238.204†	53.8	1.46	2.71%	[0.5] mg/L
Mg 285.213†	9993.0	30.04	0.30%	[1] mg/L
Mn 257.610†	3053.3	29.85	0.98%	[0.5] mg/L
Mo 202.031†	11212.9	262.62	2.34%	[0.5] mg/L
Ni 231.604†	24174.0	553.49	2.29%	[0.5] mg/L
Pb 220.353†	3675.2	85.00	2.31%	[0.5] mg/L
Sb 206.836†	1738.8	50.46	2.90%	[0.5] mg/L
Se 196.026†	1292.8	37.04	2.87%	[0.5] mg/L
Sn 189.927†	3354.9	84.86	2.53%	[0.5] mg/L
Ti 337.279†	8642.2	47.70	0.55%	[0.5] mg/L
Tl 351.924†	1385.0	37.62	2.72%	[0.25] mg/L
V 290.880†	39286.3	764.81	1.95%	[0.5] mg/L
Zn 206.200†	20770.2	462.22	2.23%	[0.5] mg/L
Zr 343.823†	135209.7	2649.58	1.96%	[0.5] mg/L

Sequence No.: 4

Sample ID: SEQ-CAL3@2211090

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 4

Date Collected: 4/11/2023 9:09:45 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL3@2211090

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Y radial	153463.2	1040.82	0.68%	102 %
Y axial	3169611.7	20752.65	0.65%	101 %
Ag 328.068†	48723.4	364.34	0.75%	[0.5] mg/L
Al 396.153†	8565.0	61.04	0.71%	[2] mg/L
As 188.979†	1897.6	28.30	1.49%	[1] mg/L
B 208.889†	11931.9	154.25	1.29%	[1] mg/L
Ba 233.527†	105361.9	126.07	0.12%	[1] mg/L
Be 313.107†	168507.7	168.66	0.10%	[1] mg/L
Ca 317.933†	9629.4	43.49	0.45%	[2] mg/L
Cd 228.802†	47569.1	163.70	0.34%	[1] mg/L
Co 228.616†	49053.6	20.14	0.04%	[1] mg/L
Cr 267.716†	76207.6	153.52	0.20%	[1] mg/L
Cu 327.393†	157698.0	480.90	0.30%	[1] mg/L
Fe 238.204†	106.3	1.37	1.29%	[1] mg/L
K 766.490†	3052.9	41.16	1.35%	[2] mg/L
Mg 285.213†	19117.4	18.55	0.10%	[2] mg/L
Mn 257.610†	5976.8	43.25	0.72%	[1] mg/L
Mo 202.031†	23121.4	298.14	1.29%	[1] mg/L
Na 589.592†	12564.6	14.79	0.12%	[2] mg/L
Ni 231.604†	48499.1	149.52	0.31%	[1] mg/L
Pb 220.353†	7380.9	93.01	1.26%	[1] mg/L
Sb 206.836†	3599.6	45.86	1.27%	[1] mg/L
Se 196.026†	2627.7	38.79	1.48%	[1] mg/L
Sn 189.927†	6886.5	91.23	1.32%	[1] mg/L
Ti 337.279†	17445.5	59.36	0.34%	[1] mg/L
Tl 351.924†	2761.9	40.21	1.46%	[0.5] mg/L
V 290.880†	79874.6	84.48	0.11%	[1] mg/L
Zn 206.200†	41845.6	183.31	0.44%	[1] mg/L
Zr 343.823†	278150.9	260.61	0.09%	[1] mg/L

Sequence No.: 5

Sample ID: SEQ-CAL4@2211091

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 9:17:24 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL4@2211091

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	154948.8	1395.30	0.90%	103	%
Y axial	3216876.2	53266.55	1.66%	102	%
Ag 328.068†	216814.6	6657.95	3.07%	[2.5]	mg/L
Al 396.153†	42780.8	19.55	0.05%	[10]	mg/L
As 188.979†	9345.6	202.35	2.17%	[5]	mg/L
B 208.889†	59634.4	1577.47	2.65%	[5]	mg/L
Ba 233.527†	505861.0	13778.29	2.72%	[5]	mg/L
Be 313.107†	837980.9	2335.69	0.28%	[5]	mg/L
Ca 317.933†	48089.3	131.06	0.27%	[10]	mg/L
Cd 228.802†	229369.0	6467.98	2.82%	[5]	mg/L
Co 228.616†	234616.7	6636.52	2.83%	[5]	mg/L
Cr 267.716†	367109.5	9934.65	2.71%	[5]	mg/L
Cu 327.393†	771053.2	22528.16	2.92%	[5]	mg/L
Fe 238.204†	522.7	0.65	0.13%	[5]	mg/L
K 766.490†	15403.7	109.58	0.71%	[10]	mg/L
Mg 285.213†	94847.5	254.08	0.27%	[10]	mg/L
Mn 257.610†	29819.8	69.64	0.23%	[5]	mg/L
Mo 202.031†	112837.0	3214.85	2.85%	[5]	mg/L
Na 589.592†	63135.6	111.68	0.18%	[10]	mg/L
Ni 231.604†	231237.8	6401.05	2.77%	[5]	mg/L
Pb 220.353†	35226.3	892.86	2.53%	[5]	mg/L
Sb 206.836†	17889.3	581.47	3.25%	[5]	mg/L
Se 196.026†	12894.0	346.86	2.69%	[5]	mg/L
Sn 189.927†	33821.7	913.01	2.70%	[5]	mg/L
Ti 337.279†	88855.0	262.06	0.29%	[5]	mg/L
Tl 351.924†	13439.5	361.82	2.69%	[2.5]	mg/L
V 290.880†	388470.1	10977.61	2.83%	[5]	mg/L
Zn 206.200†	201695.0	5620.62	2.79%	[5]	mg/L
Zr 343.823†	1377398.8	38726.80	2.81%	[5]	mg/L

=====

Sequence No.: 6

Sample ID: SEQ-CAL5@2211092

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 6

Date Collected: 4/11/2023 9:24:10 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CAL5@2211092

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	155109.1	1376.38	0.89%	103	%
Y axial	3114305.9	35616.28	1.14%	98.8	%
Ag 328.068†	423575.3	5030.58	1.19%	[5]	mg/L
Al 396.153†	85809.5	48.24	0.06%	[20]	mg/L
As 188.979†	19167.7	216.90	1.13%	[10]	mg/L
B 208.889†	121453.9	746.08	0.61%	[10]	mg/L
Ba 233.527†	1024147.0	793.94	0.08%	[10]	mg/L
Be 313.107†	1654879.5	1206.47	0.07%	[10]	mg/L
Ca 317.933†	96270.2	120.44	0.13%	[20]	mg/L
Cd 228.802†	465002.8	141.98	0.03%	[10]	mg/L
Co 228.616†	473533.4	704.11	0.15%	[10]	mg/L
Cr 267.716†	746007.5	1350.04	0.18%	[10]	mg/L
Cu 327.393†	1588253.2	3959.77	0.25%	[10]	mg/L
Fe 238.204†	1039.1	8.57	0.82%	[10]	mg/L
K 766.490†	31086.6	69.22	0.22%	[20]	mg/L
Mg 285.213†	188198.5	316.43	0.17%	[20]	mg/L
Mn 257.610†	58862.4	19.34	0.03%	[10]	mg/L
Mo 202.031†	229744.3	529.64	0.23%	[10]	mg/L
Na 589.592†	126756.2	200.21	0.16%	[20]	mg/L
Ni 231.604†	466029.7	911.64	0.20%	[10]	mg/L
Pb 220.353†	70640.3	352.09	0.50%	[10]	mg/L
Sb 206.836†	36539.9	294.72	0.81%	[10]	mg/L
Se 196.026†	26320.4	80.23	0.30%	[10]	mg/L

Sn 189.927†	68242.1	466.94	0.68%	[10] mg/L
Ti 337.279†	177149.9	27.95	0.02%	[10] mg/L
Tl 351.924†	19812.2	923.23	4.66%	[5] mg/L
V 290.880†	796334.4	1007.93	0.13%	[10] mg/L
Zn 206.200†	406145.5	752.90	0.19%	[10] mg/L
Zr 343.823†	2817871.0	3517.08	0.12%	[10] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	5	Lin Thru 0	0.0	85240	0.00000	0.999858	
Al 396.153	5	Lin Thru 0	0.0	4288	0.00000	0.999998	
As 188.979	5	Lin Thru 0	0.0	1907	0.00000	0.999950	
B 208.889	5	Lin Thru 0	0.0	12100	0.00000	0.999971	
Ba 233.527	5	Lin Thru 0	0.0	102200	0.00000	0.999984	
Be 313.107	5	Lin Thru 0	0.0	165900	0.00000	0.999985	
Ca 317.933	4	Lin Thru 0	0.0	4813	0.00000	0.999998	
Cd 228.802	5	Lin Thru 0	0.0	46390	0.00000	0.999982	
Co 228.616	5	Lin Thru 0	0.0	47280	0.00000	0.999987	
Cr 267.716	5	Lin Thru 0	0.0	74380	0.00000	0.999977	
Cu 327.393	5	Lin Thru 0	0.0	157900	0.00000	0.999932	
Fe 238.204	5	Lin Thru 0	0.0	104.1	0.00000	0.999994	
K 766.490	3	Lin Thru 0	0.0	1551	0.00000	0.999993	
Mg 285.213	5	Lin Thru 0	0.0	9427	0.00000	0.999990	
Mn 257.610	5	Lin Thru 0	0.0	5903	0.00000	0.999984	
Mo 202.031	5	Lin Thru 0	0.0	22890	0.00000	0.999974	
Na 589.592	3	Lin Thru 0	0.0	6333	0.00000	0.999999	
Ni 231.604	5	Lin Thru 0	0.0	46550	0.00000	0.999987	
Pb 220.353	5	Lin Thru 0	0.0	7063	0.00000	0.999989	
Sb 206.836	5	Lin Thru 0	0.0	3638	0.00000	0.999963	
Se 196.026	5	Lin Thru 0	0.0	2621	0.00000	0.999967	
Sn 189.927	5	Lin Thru 0	0.0	6813	0.00000	0.999993	
Ti 337.279	5	Lin Thru 0	0.0	17720	0.00000	0.999998	
Tl 351.924	5	Lin Thru 0	0.0	4258	0.00000	0.990948	
V 290.880	5	Lin Thru 0	0.0	79250	0.00000	0.999952	
Zn 206.200	5	Lin Thru 0	0.0	40570	0.00000	0.999992	
Zr 343.823	5	Lin Thru 0	0.0	280500	0.00000	0.999958	

APPROVED

By ATP at 9:54 am, Apr 12, 2023

Method Loaded

Method Name: ICP3 IEC040523

IEC File: 0402A23.iec

Method Description: Soils and Waters

Method Last Saved: 4/5/2023 7:54:32 PM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 1

Sample ID: SEQ-ICV @2211094

Analyst:

Initial Sample Wt: RR 04/12/23 ATP

Dilution:

Wash Time (before sample):

Autosampler Location: 8

Date Collected: 4/11/2023 9:32:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SEQ-ICV @2211094

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y radial	156739.2	156739.2	105 %		9:34:15 AM
1	Al 396.153†	8925.3	8480.7	1.898 mg/L	1.898 mg/L	9:34:15 AM
1	Be 313.107†	345520.7	329942.5	1.984 mg/L	1.984 mg/L	9:34:15 AM
1	Ca 317.933†	10447.9	9256.8	1.923 mg/L	1.923 mg/L	9:34:15 AM
1	Fe 238.204†	245.0	207.8	2.008 mg/L	2.008 mg/L	9:34:35 AM
1	K 766.490†	3332.4	2865.2	1.847 mg/L	1.847 mg/L	9:34:15 AM
1	Mg 285.213†	19104.0	18178.9	1.885 mg/L	1.885 mg/L	9:34:15 AM
1	Mn 257.610†	11981.7	11556.9	1.958 mg/L	1.958 mg/L	9:34:15 AM
1	Na 589.592†	13233.4	12310.3	1.944 mg/L	1.944 mg/L	9:34:15 AM
1	Ti 337.279†	35671.9	34250.9	1.932 mg/L	1.932 mg/L	9:34:15 AM
1	Y axial	3213522.5	3213522.5	102 %		9:35:45 AM
1	As 188.979†	3863.5	3839.2	2.030 mg/L	2.030 mg/L	9:36:06 AM
1	B 208.889†	25174.2	24510.7	1.919 mg/L	1.919 mg/L	9:36:06 AM
1	Ba 233.527†	218938.4	215161.9	2.107 mg/L	2.107 mg/L	9:35:45 AM
1	Cd 228.802†	98313.7	96369.4	2.075 mg/L	2.075 mg/L	9:35:45 AM
1	Co 228.616†	100769.2	98932.5	2.090 mg/L	2.090 mg/L	9:35:45 AM
1	Cr 267.716†	157894.3	154730.5	2.081 mg/L	2.081 mg/L	9:35:45 AM
1	Cu 327.393†	328784.7	322951.7	2.052 mg/L	2.052 mg/L	9:35:45 AM
1	Mo 202.031†	47617.4	46723.0	2.041 mg/L	2.041 mg/L	9:35:45 AM
1	Ni 231.604†	100093.2	98196.4	2.108 mg/L	2.108 mg/L	9:35:45 AM

1	Pb 220.353†	14993.0	14681.5	2.085 mg/L	2.085 mg/L	9:36:06 AM
1	Sb 206.836†	7584.4	7315.6	1.972 mg/L	1.972 mg/L	9:36:06 AM
1	Se 196.026†	5370.8	5291.5	2.016 mg/L	2.016 mg/L	9:36:06 AM
1	Sn 189.927†	14218.9	13894.4	2.050 mg/L	2.050 mg/L	9:36:06 AM
1	Tl 351.924†	5905.2	5745.5	1.337 mg/L	1.337 mg/L	9:36:06 AM
1	V 290.880†	168453.8	164180.0	2.124 mg/L	2.124 mg/L	9:35:45 AM
1	Zn 206.200†	87275.9	85937.3	2.126 mg/L	2.126 mg/L	9:35:45 AM
1	Zr 343.823†	578431.7	567386.1	2.023 mg/L	2.023 mg/L	9:35:45 AM
1	Ag 328.068†	93168.2	91355.8	1.065 mg/L	1.065 mg/L	9:37:25 AM
2	Y radial	158647.3	158647.3	106 %		9:34:38 AM
2	Al 396.153†	9080.0	8524.2	1.909 mg/L	1.909 mg/L	9:34:38 AM
2	Be 313.107†	351959.2	332051.5	1.996 mg/L	1.996 mg/L	9:34:38 AM
2	Ca 317.933†	10589.3	9270.2	1.926 mg/L	1.926 mg/L	9:34:38 AM
2	Fe 238.204†	245.4	205.3	1.984 mg/L	1.984 mg/L	9:34:58 AM
2	K 766.490†	3401.5	2892.1	1.864 mg/L	1.864 mg/L	9:34:38 AM
2	Mg 285.213†	19292.1	18136.8	1.881 mg/L	1.881 mg/L	9:34:38 AM
2	Mn 257.610†	12177.5	11604.0	1.966 mg/L	1.966 mg/L	9:34:38 AM
2	Na 589.592†	13381.1	12297.6	1.942 mg/L	1.942 mg/L	9:34:38 AM
2	Ti 337.279†	36302.1	34436.1	1.942 mg/L	1.942 mg/L	9:34:38 AM
2	Y axial	3174225.4	3174225.4	101 %		9:36:08 AM
2	As 188.979†	3887.6	3910.1	2.067 mg/L	2.067 mg/L	9:36:28 AM
2	B 208.889†	25361.9	25003.0	1.960 mg/L	1.960 mg/L	9:36:28 AM
2	Ba 233.527†	214574.8	213486.7	2.091 mg/L	2.091 mg/L	9:36:08 AM
2	Cd 228.802†	96429.2	95691.7	2.060 mg/L	2.060 mg/L	9:36:08 AM
2	Co 228.616†	98828.9	98229.0	2.075 mg/L	2.075 mg/L	9:36:08 AM
2	Cr 267.716†	154888.5	153662.6	2.066 mg/L	2.066 mg/L	9:36:08 AM
2	Cu 327.393†	322006.8	320212.5	2.035 mg/L	2.035 mg/L	9:36:08 AM
2	Mo 202.031†	46722.0	46411.9	2.027 mg/L	2.027 mg/L	9:36:08 AM
2	Ni 231.604†	98370.3	97700.7	2.098 mg/L	2.098 mg/L	9:36:08 AM
2	Pb 220.353†	15101.2	14971.1	2.125 mg/L	2.125 mg/L	9:36:28 AM
2	Sb 206.836†	7629.0	7452.0	2.010 mg/L	2.010 mg/L	9:36:28 AM
2	Se 196.026†	5395.4	5381.3	2.051 mg/L	2.051 mg/L	9:36:28 AM
2	Sn 189.927†	14276.9	14124.9	2.084 mg/L	2.084 mg/L	9:36:28 AM
2	Tl 351.924†	5972.6	5884.3	1.370 mg/L	1.370 mg/L	9:36:28 AM
2	V 290.880†	165542.7	163334.4	2.113 mg/L	2.113 mg/L	9:36:08 AM
2	Zn 206.200†	85564.0	85296.9	2.110 mg/L	2.110 mg/L	9:36:08 AM
2	Zr 343.823†	566426.2	562486.4	2.005 mg/L	2.005 mg/L	9:36:08 AM
2	Ag 328.068†	93251.4	92570.4	1.079 mg/L	1.079 mg/L	9:37:27 AM
3	Y radial	159430.4	159430.4	106 %		9:35:00 AM
3	Al 396.153†	8958.4	8367.7	1.872 mg/L	1.872 mg/L	9:35:00 AM
3	Be 313.107†	348383.7	327056.6	1.966 mg/L	1.966 mg/L	9:35:00 AM
3	Ca 317.933†	10441.0	9081.7	1.887 mg/L	1.887 mg/L	9:35:00 AM
3	Fe 238.204†	242.9	201.9	1.951 mg/L	1.951 mg/L	9:35:20 AM
3	K 766.490†	3351.8	2829.6	1.824 mg/L	1.824 mg/L	9:35:00 AM
3	Mg 285.213†	19168.8	17931.4	1.859 mg/L	1.859 mg/L	9:35:00 AM
3	Mn 257.610†	12119.3	11492.8	1.947 mg/L	1.947 mg/L	9:35:00 AM
3	Na 589.592†	13337.0	12194.1	1.926 mg/L	1.926 mg/L	9:35:00 AM
3	Ti 337.279†	35977.6	33962.6	1.915 mg/L	1.915 mg/L	9:35:00 AM
3	Y axial	3163549.0	3163549.0	100 %		9:36:31 AM
3	As 188.979†	3869.1	3904.7	2.064 mg/L	2.064 mg/L	9:36:51 AM
3	B 208.889†	25259.3	24985.7	1.958 mg/L	1.958 mg/L	9:36:51 AM
3	Ba 233.527†	214988.3	214618.3	2.102 mg/L	2.102 mg/L	9:36:31 AM
3	Cd 228.802†	96940.4	96524.5	2.078 mg/L	2.078 mg/L	9:36:31 AM
3	Co 228.616†	98930.9	98662.1	2.084 mg/L	2.084 mg/L	9:36:31 AM
3	Cr 267.716†	155270.7	154562.9	2.078 mg/L	2.078 mg/L	9:36:31 AM
3	Cu 327.393†	323533.2	322813.5	2.051 mg/L	2.051 mg/L	9:36:31 AM
3	Mo 202.031†	46830.8	46677.0	2.039 mg/L	2.039 mg/L	9:36:31 AM
3	Ni 231.604†	98752.3	98411.3	2.113 mg/L	2.113 mg/L	9:36:31 AM
3	Pb 220.353†	15039.1	14959.9	2.124 mg/L	2.124 mg/L	9:36:51 AM
3	Sb 206.836†	7591.8	7440.5	2.007 mg/L	2.007 mg/L	9:36:51 AM
3	Se 196.026†	5373.1	5377.1	2.049 mg/L	2.049 mg/L	9:36:51 AM
3	Sn 189.927†	14236.3	14132.2	2.084 mg/L	2.084 mg/L	9:36:51 AM
3	Tl 351.924†	5907.9	5839.8	1.360 mg/L	1.360 mg/L	9:36:51 AM
3	V 290.880†	165310.7	163658.1	2.118 mg/L	2.118 mg/L	9:36:31 AM
3	Zn 206.200†	85549.0	85568.8	2.117 mg/L	2.117 mg/L	9:36:31 AM
3	Zr 343.823†	568247.7	566201.1	2.019 mg/L	2.019 mg/L	9:36:31 AM
3	Ag 328.068†	94547.6	94175.0	1.098 mg/L	1.098 mg/L	9:37:30 AM
4	Y radial	154435.3	154435.3	103 %		9:35:22 AM
4	Al 396.153†	9114.5	8791.6	1.971 mg/L	1.971 mg/L	9:35:22 AM
4	Be 313.107†	354470.6	343558.6	2.066 mg/L	2.066 mg/L	9:35:22 AM

Method: ICP3 IEC040523

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Date: 4/11/2023 9:37:33 AM

4	Ca 317.933†	10568.2	9522.6	1.979 mg/L	1.979 mg/L	9:35:22 AM
4	Fe 238.204†	247.1	213.3	2.061 mg/L	2.061 mg/L	9:35:42 AM
4	K 766.490†	3517.5	3092.4	1.993 mg/L	1.993 mg/L	9:35:22 AM
4	Mg 285.213†	19540.6	18875.2	1.959 mg/L	1.959 mg/L	9:35:22 AM
4	Mn 257.610†	12318.2	12054.4	2.042 mg/L	2.042 mg/L	9:35:22 AM
4	Na 589.592†	13582.6	12838.1	2.027 mg/L	2.027 mg/L	9:35:22 AM
4	Ti 337.279†	36542.7	35605.0	2.008 mg/L	2.008 mg/L	9:35:22 AM
4	Y axial	3160887.6	3160887.6	100 %		9:36:54 AM
4	As 188.979†	3821.1	3860.0	2.041 mg/L	2.041 mg/L	9:37:14 AM
4	B 208.889†	25028.3	24776.5	1.941 mg/L	1.941 mg/L	9:37:14 AM
4	Ba 233.527†	215528.4	215337.5	2.109 mg/L	2.109 mg/L	9:36:54 AM
4	Cd 228.802†	96913.1	96578.7	2.079 mg/L	2.079 mg/L	9:36:54 AM
4	Co 228.616†	99242.7	99056.1	2.092 mg/L	2.092 mg/L	9:36:54 AM
4	Cr 267.716†	155601.4	155023.1	2.085 mg/L	2.085 mg/L	9:36:54 AM
4	Cu 327.393†	323733.6	323285.1	2.054 mg/L	2.054 mg/L	9:36:54 AM
4	Mo 202.031†	46905.0	46790.3	2.044 mg/L	2.044 mg/L	9:36:54 AM
4	Ni 231.604†	98835.7	98577.4	2.117 mg/L	2.117 mg/L	9:36:54 AM
4	Pb 220.353†	14890.5	14824.2	2.105 mg/L	2.105 mg/L	9:37:14 AM
4	Sb 206.836†	7539.9	7395.1	1.994 mg/L	1.994 mg/L	9:37:14 AM
4	Se 196.026†	5314.6	5323.3	2.029 mg/L	2.029 mg/L	9:37:14 AM
4	Sn 189.927†	14103.6	14011.8	2.067 mg/L	2.067 mg/L	9:37:14 AM
4	Tl 351.924†	5841.7	5778.7	1.345 mg/L	1.345 mg/L	9:37:14 AM
4	V 290.880†	166502.0	164985.4	2.135 mg/L	2.135 mg/L	9:36:54 AM
4	Zn 206.200†	85917.8	86008.6	2.128 mg/L	2.128 mg/L	9:36:54 AM
4	Zr 343.823†	569599.8	568027.0	2.025 mg/L	2.025 mg/L	9:36:54 AM
4	Ag 328.068†	93382.5	93092.1	1.085 mg/L	1.085 mg/L	9:37:32 AM

Mean Data: SEQ-ICV @2211094

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std. Dev.	Sample Conc. Units	Std. Dev.	RSD
Y radial	157313.1	105 %	1.49			1.42%
Y axial	3178046.1	101 %	0.77			0.77%
Ag 328.068†	92798.3	1.082 mg/L	0.0137	1.082 mg/L	0.0137	1.27%
QC value greater than the upper limit for Ag 328.068 Recovery = 108.18%						
Al 396.153†	8541.1	1.913 mg/L	0.0418	1.913 mg/L	0.0418	2.18%
QC value within limits for Al 396.153 Recovery = 95.63%						
As 188.979†	3878.5	2.050 mg/L	0.0180	2.050 mg/L	0.0180	0.88%
QC value within limits for As 188.979 Recovery = 102.52%						
B 208.889†	24819.0	1.945 mg/L	0.0192	1.945 mg/L	0.0192	0.99%
QC value within limits for B 208.889 Recovery = 97.23%						
Ba 233.527†	214651.1	2.102 mg/L	0.0082	2.102 mg/L	0.0082	0.39%
QC value greater than the upper limit for Ba 233.527 Recovery = 105.12%						
Be 313.107†	333152.3	2.003 mg/L	0.0436	2.003 mg/L	0.0436	2.18%
QC value within limits for Be 313.107 Recovery = 100.15%						
Ca 317.933†	9282.8	1.929 mg/L	0.0377	1.929 mg/L	0.0377	1.96%
QC value within limits for Ca 317.933 Recovery = 96.43%						
Cd 228.802†	96291.1	2.073 mg/L	0.0089	2.073 mg/L	0.0089	0.43%
QC value within limits for Cd 228.802 Recovery = 103.65%						
Co 228.616†	98719.9	2.085 mg/L	0.0077	2.085 mg/L	0.0077	0.37%
QC value within limits for Co 228.616 Recovery = 104.25%						
Cr 267.716†	154494.8	2.078 mg/L	0.0079	2.078 mg/L	0.0079	0.38%
QC value within limits for Cr 267.716 Recovery = 103.88%						
Cu 327.393†	322315.7	2.048 mg/L	0.0090	2.048 mg/L	0.0090	0.44%
QC value within limits for Cu 327.393 Recovery = 102.39%						
Fe 238.204†	207.1	2.001 mg/L	0.0462	2.001 mg/L	0.0462	2.31%
QC value within limits for Fe 238.204 Recovery = 100.05%						
K 766.490†	2919.8	1.882 mg/L	0.0760	1.882 mg/L	0.0760	4.04%
QC value less than the lower limit for K 766.490 Recovery = 94.11%						
Mg 285.213†	18280.6	1.896 mg/L	0.0435	1.896 mg/L	0.0435	2.29%
QC value less than the lower limit for Mg 285.213 Recovery = 94.81%						
Mn 257.610†	11677.0	1.978 mg/L	0.0433	1.978 mg/L	0.0433	2.19%
QC value within limits for Mn 257.610 Recovery = 98.91%						
Mo 202.031†	46650.6	2.038 mg/L	0.0072	2.038 mg/L	0.0072	0.36%
QC value within limits for Mo 202.031 Recovery = 101.88%						
Na 589.592†	12410.0	1.960 mg/L	0.0458	1.960 mg/L	0.0458	2.34%
QC value within limits for Na 589.592 Recovery = 97.99%						
Ni 231.604†	98221.5	2.109 mg/L	0.0082	2.109 mg/L	0.0082	0.39%
QC value greater than the upper limit for Ni 231.604 Recovery = 105.45%						
Pb 220.353†	14859.2	2.110 mg/L	0.0192	2.110 mg/L	0.0192	0.91%

QC value greater than the upper limit for Pb 220.353 Recovery = 105.48%
 Sb 206.836† 7400.8 1.996 mg/L 0.0171 1.996 mg/L 0.0171 0.86%
 QC value within limits for Sb 206.836 Recovery = 99.79%
 Se 196.026† 5343.3 2.036 mg/L 0.0166 2.036 mg/L 0.0166 0.81%
 QC value within limits for Se 196.026 Recovery = 101.81%
 Sn 189.927† 14040.8 2.071 mg/L 0.0164 2.071 mg/L 0.0164 0.79%
 QC value within limits for Sn 189.927 Recovery = 103.56%
 Ti 337.279† 34563.7 1.949 mg/L 0.0407 1.949 mg/L 0.0407 2.09%
 QC value within limits for Ti 337.279 Recovery = 97.46%
 Tl 351.924† 5812.1 1.353 mg/L 0.0146 1.353 mg/L 0.0146 1.08%
 QC value greater than the upper limit for Tl 351.924 Recovery = 135.30%
 V 290.880† 164039.5 2.122 mg/L 0.0092 2.122 mg/L 0.0092 0.44%
 QC value greater than the upper limit for V 290.880 Recovery = 106.12%
 Zn 206.200† 85702.9 2.120 mg/L 0.0082 2.120 mg/L 0.0082 0.39%
 QC value greater than the upper limit for Zn 206.200 Recovery = 106.02%
 Zr 343.823† 566025.1 2.018 mg/L 0.0088 2.018 mg/L 0.0088 0.44%
 QC value within limits for Zr 343.823 Recovery = 100.90%
 QC Failed. Continue with analysis.
 User canceled analysis.

Sequence No.: 1

Sample ID: SEQ-ICV @2211094

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 8

Date Collected: 4/11/2023 9:40:54 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SEQ-ICV @2211094

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y radial	156051.4	156051.4	104 %		9:42:13 AM
1	Al 396.153†	9143.8	8728.1	1.956 mg/L	1.956 mg/L	9:42:13 AM
1	Be 313.107†	357392.1	342801.7	2.061 mg/L	2.061 mg/L	9:42:13 AM
1	Ca 317.933†	10704.4	9547.2	1.984 mg/L	1.984 mg/L	9:42:13 AM
1	Fe 238.204†	246.1	209.9	2.027 mg/L	2.027 mg/L	9:42:13 AM
1	K 766.490†	3517.4	3056.9	1.970 mg/L	1.970 mg/L	9:42:13 AM
1	Mg 285.213†	19600.9	18736.7	1.944 mg/L	1.944 mg/L	9:42:13 AM
1	Mn 257.610†	12407.0	12015.8	2.036 mg/L	2.036 mg/L	9:42:13 AM
1	Na 589.592†	13552.2	12672.3	2.001 mg/L	2.001 mg/L	9:42:13 AM
1	Ti 337.279†	36821.1	35505.1	2.002 mg/L	2.002 mg/L	9:42:13 AM
1	Y axial	3143403.1	3143403.1	99.7 %		9:43:43 AM
1	As 188.979†	3848.8	3909.0	2.066 mg/L	2.066 mg/L	9:44:03 AM
1	B 208.889†	25058.4	24945.5	1.955 mg/L	1.955 mg/L	9:44:03 AM
1	Ba 233.527†	213495.0	214493.7	2.101 mg/L	2.101 mg/L	9:43:43 AM
1	Cd 228.802†	96520.7	96722.8	2.082 mg/L	2.082 mg/L	9:43:43 AM
1	Co 228.616†	98455.2	98816.9	2.087 mg/L	2.087 mg/L	9:43:43 AM
1	Cr 267.716†	154425.2	154706.6	2.080 mg/L	2.080 mg/L	9:43:43 AM
1	Cu 327.393†	323106.4	324452.4	2.061 mg/L	2.061 mg/L	9:43:43 AM
1	Mo 202.031†	46431.0	46575.1	2.034 mg/L	2.034 mg/L	9:44:03 AM
1	Ni 231.604†	98001.5	98289.0	2.110 mg/L	2.110 mg/L	9:43:43 AM
1	Pb 220.353†	14881.0	14897.4	2.115 mg/L	2.115 mg/L	9:44:03 AM
1	Sb 206.836†	7560.8	7458.0	2.011 mg/L	2.011 mg/L	9:44:03 AM
1	Se 196.026†	5326.8	5365.0	2.045 mg/L	2.045 mg/L	9:44:03 AM
1	Sn 189.927†	14110.6	14097.1	2.080 mg/L	2.080 mg/L	9:44:03 AM
1	Tl 351.924†	5849.0	5818.4	1.354 mg/L	1.354 mg/L	9:44:03 AM
1	V 290.880†	166281.2	165687.8	2.143 mg/L	2.143 mg/L	9:43:43 AM
1	Zn 206.200†	85330.1	85895.8	2.125 mg/L	2.125 mg/L	9:43:43 AM
1	Zr 343.823†	566742.5	568321.4	2.026 mg/L	2.026 mg/L	9:43:43 AM
1	Ag 328.068†	91841.6	92064.5	1.073 mg/L	1.073 mg/L	9:45:22 AM
2	Y radial	151035.7	151035.7	101 %		9:42:35 AM
2	Al 396.153†	9159.9	9035.8	2.029 mg/L	2.029 mg/L	9:42:35 AM
2	Be 313.107†	355636.4	352459.4	2.119 mg/L	2.119 mg/L	9:42:35 AM
2	Ca 317.933†	10654.9	9839.6	2.044 mg/L	2.044 mg/L	9:42:35 AM
2	Fe 238.204†	241.5	213.2	2.059 mg/L	2.059 mg/L	9:42:55 AM
2	K 766.490†	3538.2	3189.8	2.056 mg/L	2.056 mg/L	9:42:35 AM
2	Mg 285.213†	19476.4	19238.4	1.999 mg/L	1.999 mg/L	9:42:35 AM
2	Mn 257.610†	12367.5	12372.4	2.096 mg/L	2.096 mg/L	9:42:35 AM
2	Na 589.592†	13623.8	13175.7	2.081 mg/L	2.081 mg/L	9:42:35 AM

2	Ti 337.279†	36620.8	36480.9	2.057 mg/L	2.057 mg/L	9:42:35 AM
2	Y axial	3149961.5	3149961.5	99.9 %		9:44:05 AM
2	As 188.979†	3805.9	3858.1	2.039 mg/L	2.039 mg/L	9:44:25 AM
2	B 208.889†	24933.5	24768.1	1.941 mg/L	1.941 mg/L	9:44:25 AM
2	Ba 233.527†	210400.3	210949.6	2.066 mg/L	2.066 mg/L	9:44:05 AM
2	Cd 228.802†	94971.3	94970.1	2.044 mg/L	2.044 mg/L	9:44:05 AM
2	Co 228.616†	96593.9	96747.8	2.043 mg/L	2.043 mg/L	9:44:05 AM
2	Cr 267.716†	151721.1	151677.0	2.040 mg/L	2.040 mg/L	9:44:05 AM
2	Cu 327.393†	316777.9	317442.0	2.017 mg/L	2.017 mg/L	9:44:05 AM
2	Mo 202.031†	46171.8	46218.7	2.019 mg/L	2.019 mg/L	9:44:25 AM
2	Ni 231.604†	96195.6	96276.4	2.067 mg/L	2.067 mg/L	9:44:05 AM
2	Pb 220.353†	14762.0	14747.1	2.094 mg/L	2.094 mg/L	9:44:25 AM
2	Sb 206.836†	7505.4	7386.7	1.992 mg/L	1.992 mg/L	9:44:25 AM
2	Se 196.026†	5301.2	5328.2	2.031 mg/L	2.031 mg/L	9:44:25 AM
2	Sn 189.927†	13998.3	13955.1	2.059 mg/L	2.059 mg/L	9:44:25 AM
2	Tl 351.924†	5781.2	5738.4	1.335 mg/L	1.335 mg/L	9:44:25 AM
2	V 290.880†	163420.5	162476.7	2.102 mg/L	2.102 mg/L	9:44:05 AM
2	Zn 206.200†	83845.6	84231.4	2.084 mg/L	2.084 mg/L	9:44:05 AM
2	Zr 343.823†	556400.9	556784.6	1.985 mg/L	1.985 mg/L	9:44:05 AM
2	Ag 328.068†	94049.1	94082.6	1.097 mg/L	1.097 mg/L	9:45:24 AM
3	Y radial	154151.6	154151.6	103 %		9:42:57 AM
3	Al 396.153†	9020.6	8716.7	1.955 mg/L	1.955 mg/L	9:42:57 AM
3	Be 313.107†	351803.8	341598.6	2.054 mg/L	2.054 mg/L	9:42:57 AM
3	Ca 317.933†	10562.9	9536.3	1.981 mg/L	1.981 mg/L	9:42:57 AM
3	Fe 238.204†	250.0	216.6	2.092 mg/L	2.092 mg/L	9:43:17 AM
3	K 766.490†	3441.6	3024.9	1.950 mg/L	1.950 mg/L	9:42:57 AM
3	Mg 285.213†	19240.7	18618.5	1.933 mg/L	1.933 mg/L	9:42:57 AM
3	Mn 257.610†	12152.7	11915.4	2.019 mg/L	2.019 mg/L	9:42:57 AM
3	Na 589.592†	13392.7	12677.7	2.002 mg/L	2.002 mg/L	9:42:57 AM
3	Ti 337.279†	36200.4	35337.5	1.993 mg/L	1.993 mg/L	9:42:57 AM
3	Y axial	3185426.7	3185426.7	101 %		9:44:28 AM
3	As 188.979†	3802.8	3812.5	2.015 mg/L	2.015 mg/L	9:44:48 AM
3	B 208.889†	24963.0	24519.5	1.922 mg/L	1.922 mg/L	9:44:48 AM
3	Ba 233.527†	212405.7	210589.8	2.063 mg/L	2.063 mg/L	9:44:28 AM
3	Cd 228.802†	95836.9	94768.5	2.040 mg/L	2.040 mg/L	9:44:28 AM
3	Co 228.616†	97700.5	96766.8	2.044 mg/L	2.044 mg/L	9:44:28 AM
3	Cr 267.716†	153035.3	151286.9	2.034 mg/L	2.034 mg/L	9:44:28 AM
3	Cu 327.393†	320280.1	317378.2	2.017 mg/L	2.017 mg/L	9:44:28 AM
3	Mo 202.031†	46251.5	45783.0	2.000 mg/L	2.000 mg/L	9:44:48 AM
3	Ni 231.604†	97397.9	96394.4	2.070 mg/L	2.070 mg/L	9:44:28 AM
3	Pb 220.353†	14817.0	14637.1	2.078 mg/L	2.078 mg/L	9:44:48 AM
3	Sb 206.836†	7500.9	7298.6	1.968 mg/L	1.968 mg/L	9:44:48 AM
3	Se 196.026†	5285.8	5253.9	2.002 mg/L	2.002 mg/L	9:44:48 AM
3	Sn 189.927†	14036.3	13836.8	2.042 mg/L	2.042 mg/L	9:44:48 AM
3	Tl 351.924†	5806.1	5698.5	1.326 mg/L	1.326 mg/L	9:44:48 AM
3	V 290.880†	164801.1	162022.0	2.096 mg/L	2.096 mg/L	9:44:28 AM
3	Zn 206.200†	84439.9	83885.2	2.075 mg/L	2.075 mg/L	9:44:28 AM
3	Zr 343.823†	562239.5	556363.0	1.984 mg/L	1.984 mg/L	9:44:28 AM
3	Ag 328.068†	90871.0	89888.1	1.048 mg/L	1.048 mg/L	9:45:27 AM
4	Y radial	154644.8	154644.8	103 %		9:43:19 AM
4	Al 396.153†	9022.7	8690.7	1.948 mg/L	1.948 mg/L	9:43:19 AM
4	Be 313.107†	348268.1	337080.6	2.027 mg/L	2.027 mg/L	9:43:19 AM
4	Ca 317.933†	10435.1	9379.6	1.949 mg/L	1.949 mg/L	9:43:19 AM
4	Fe 238.204†	245.6	211.6	2.044 mg/L	2.044 mg/L	9:43:39 AM
4	K 766.490†	3368.0	2942.8	1.897 mg/L	1.897 mg/L	9:43:19 AM
4	Mg 285.213†	19082.2	18405.2	1.910 mg/L	1.910 mg/L	9:43:19 AM
4	Mn 257.610†	12028.9	11757.8	1.992 mg/L	1.992 mg/L	9:43:19 AM
4	Na 589.592†	13310.1	12556.0	1.983 mg/L	1.983 mg/L	9:43:19 AM
4	Ti 337.279†	35994.2	35025.3	1.975 mg/L	1.975 mg/L	9:43:19 AM
4	Y axial	3154026.7	3154026.7	100 %		9:44:51 AM
4	As 188.979†	3828.9	3876.2	2.049 mg/L	2.049 mg/L	9:45:11 AM
4	B 208.889†	25090.1	24892.5	1.951 mg/L	1.951 mg/L	9:45:11 AM
4	Ba 233.527†	212048.5	212326.0	2.080 mg/L	2.080 mg/L	9:44:51 AM
4	Cd 228.802†	95691.4	95567.5	2.057 mg/L	2.057 mg/L	9:44:51 AM
4	Co 228.616†	97594.1	97623.3	2.062 mg/L	2.062 mg/L	9:44:51 AM
4	Cr 267.716†	153201.2	152961.0	2.057 mg/L	2.057 mg/L	9:44:51 AM
4	Cu 327.393†	320259.4	320514.0	2.036 mg/L	2.036 mg/L	9:44:51 AM
4	Mo 202.031†	46446.9	46434.2	2.028 mg/L	2.028 mg/L	9:45:11 AM
4	Ni 231.604†	97156.4	97112.9	2.085 mg/L	2.085 mg/L	9:44:51 AM
4	Pb 220.353†	14863.5	14829.5	2.105 mg/L	2.105 mg/L	9:45:11 AM

4	Sb 206.836†	7543.7	7415.3	2.000 mg/L	2.000 mg/L	9:45:11 AM
4	Se 196.026†	5333.6	5353.8	2.040 mg/L	2.040 mg/L	9:45:11 AM
4	Sn 189.927†	14085.4	14024.2	2.069 mg/L	2.069 mg/L	9:45:11 AM
4	Tl 351.924†	5791.7	5741.4	1.336 mg/L	1.336 mg/L	9:45:11 AM
4	V 290.880†	164616.6	163461.7	2.115 mg/L	2.115 mg/L	9:44:51 AM
4	Zn 206.200†	84359.4	84636.9	2.094 mg/L	2.094 mg/L	9:44:51 AM
4	Zr 343.823†	561633.5	561298.2	2.001 mg/L	2.001 mg/L	9:44:51 AM
4	Ag 328.068†	92032.9	91945.4	1.072 mg/L	1.072 mg/L	9:45:29 AM

Mean Data: SEQ-ICV @2211094

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153970.9	103 %	1.41			1.37%
Y axial	3158204.5	100 %	0.59			0.59%
Ag 328.068†	91995.1	1.072 mg/L	0.0201	1.072 mg/L	0.0201	1.87%
QC value greater than the upper limit for Ag 328.068 Recovery = 107.25% Ok for 6010; 04/12/23 ATP						
Al 396.153†	8792.8	1.972 mg/L	0.0381	1.972 mg/L	0.0381	1.93%
QC value within limits for Al 396.153 Recovery = 98.60%						
As 188.979†	3864.0	2.043 mg/L	0.0212	2.043 mg/L	0.0212	1.04%
QC value within limits for As 188.979 Recovery = 102.13%						
B 208.889†	24781.4	1.942 mg/L	0.0149	1.942 mg/L	0.0149	0.77%
QC value within limits for B 208.889 Recovery = 97.12%						
Ba 233.527†	212089.8	2.077 mg/L	0.0173	2.077 mg/L	0.0173	0.83%
QC value within limits for Ba 233.527 Recovery = 103.86%						
Be 313.107†	343485.1	2.065 mg/L	0.0390	2.065 mg/L	0.0390	1.89%
QC value within limits for Be 313.107 Recovery = 103.27%						
Ca 317.933†	9575.7	1.990 mg/L	0.0399	1.990 mg/L	0.0399	2.00%
QC value within limits for Ca 317.933 Recovery = 99.48%						
Cd 228.802†	95507.2	2.056 mg/L	0.0189	2.056 mg/L	0.0189	0.92%
QC value within limits for Cd 228.802 Recovery = 102.80%						
Co 228.616†	97488.7	2.059 mg/L	0.0206	2.059 mg/L	0.0206	1.00%
QC value within limits for Co 228.616 Recovery = 102.94%						
Cr 267.716†	152657.9	2.053 mg/L	0.0207	2.053 mg/L	0.0207	1.01%
QC value within limits for Cr 267.716 Recovery = 102.64%						
Cu 327.393†	319946.6	2.033 mg/L	0.0212	2.033 mg/L	0.0212	1.04%
QC value within limits for Cu 327.393 Recovery = 101.64%						
Fe 238.204†	212.8	2.056 mg/L	0.0275	2.056 mg/L	0.0275	1.34%
QC value within limits for Fe 238.204 Recovery = 102.78%						
K 766.490†	3053.6	1.968 mg/L	0.0662	1.968 mg/L	0.0662	3.36%
QC value within limits for K 766.490 Recovery = 98.42% RSD >3%, Ok for 6010 ; 04/12/23 ATP						
Mg 285.213†	18749.7	1.946 mg/L	0.0376	1.946 mg/L	0.0376	1.93%
QC value within limits for Mg 285.213 Recovery = 97.32%						
Mn 257.610†	12015.4	2.036 mg/L	0.0442	2.036 mg/L	0.0442	2.17%
QC value within limits for Mn 257.610 Recovery = 101.78%						
Mo 202.031†	46252.8	2.020 mg/L	0.0151	2.020 mg/L	0.0151	0.75%
QC value within limits for Mo 202.031 Recovery = 101.02%						
Na 589.592†	12770.4	2.017 mg/L	0.0436	2.017 mg/L	0.0436	2.16%
QC value within limits for Na 589.592 Recovery = 100.83%						
Ni 231.604†	97018.2	2.083 mg/L	0.0198	2.083 mg/L	0.0198	0.95%
QC value within limits for Ni 231.604 Recovery = 104.16%						
Pb 220.353†	14777.8	2.098 mg/L	0.0159	2.098 mg/L	0.0159	0.76%
QC value within limits for Pb 220.353 Recovery = 104.90%						
Sb 206.836†	7389.6	1.993 mg/L	0.0182	1.993 mg/L	0.0182	0.91%
QC value within limits for Sb 206.836 Recovery = 99.65%						
Se 196.026†	5325.2	2.029 mg/L	0.0191	2.029 mg/L	0.0191	0.94%
QC value within limits for Se 196.026 Recovery = 101.47%						
Sn 189.927†	13978.3	2.062 mg/L	0.0162	2.062 mg/L	0.0162	0.79%
QC value within limits for Sn 189.927 Recovery = 103.12%						
Ti 337.279†	35587.2	2.007 mg/L	0.0354	2.007 mg/L	0.0354	1.77%
QC value within limits for Ti 337.279 Recovery = 100.35%						
Tl 351.924†	5749.2	1.338 mg/L	0.0117	1.338 mg/L	0.0117	0.87%
QC value greater than the upper limit for Tl 351.924 Recovery = 133.80%						
V 290.880†	163412.0	2.114 mg/L	0.0209	2.114 mg/L	0.0209	0.99%
QC value greater than the upper limit for V 290.880 Recovery = 105.70% Ok for 6010; 04/12/23 ATP						
Zn 206.200†	84662.3	2.095 mg/L	0.0217	2.095 mg/L	0.0217	1.04%
QC value within limits for Zn 206.200 Recovery = 104.73%						
Zr 343.823†	560691.8	1.999 mg/L	0.0198	1.999 mg/L	0.0198	0.99%
QC value within limits for Zr 343.823 Recovery = 99.95%						
QC Failed. Continue with analysis.						

TI failed; 04/12/23 ATP

User canceled analysis.

Method Loaded

Method Name: ICP3 IEC040523

Method Last Saved: 4/11/2023 9:37:34 AM

IEC File: 0402A23.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 2

Autosampler Location: 9

Sample ID: SEQ-ICV2 @AIR-2211108

Date Collected: 4/11/2023 9:50:35 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample):

Mean Data: SEQ-ICV2 @AIR-2211108

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153047.1	102 %		0.39			0.38%
Y axial	3142274.3	99.6 %		1.09			1.09%
Ag 328.068†	97.3	0.0011 mg/L		0.00059	0.0011 mg/L	0.00059	51.32%
Al 396.153†	1.4	0.0003 mg/L		0.00314	0.0003 mg/L	0.00314	>999.9%
As 188.979†	0.2	0.0001 mg/L		0.00087	0.0001 mg/L	0.00087	720.36%
B 208.889†	293.8	0.0242 mg/L		0.00081	0.0242 mg/L	0.00081	3.33%
Ba 233.527†	-11.1	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	26.75%
Be 313.107†	51.5	0.0003 mg/L		0.00004	0.0003 mg/L	0.00004	13.67%
Ca 317.933†	12.2	0.0025 mg/L		0.00102	0.0025 mg/L	0.00102	40.19%
Cd 228.802†	8.1	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	11.39%
Co 228.616†	-1.1	-0.0000 mg/L		0.00010	-0.0000 mg/L	0.00010	449.46%
Cr 267.716†	26.7	0.0004 mg/L		0.00001	0.0004 mg/L	0.00001	2.23%
Cu 327.393†	209.2	0.0013 mg/L		0.00037	0.0013 mg/L	0.00037	27.53%
Fe 238.204†	-0.3	-0.0032 mg/L		0.01436	-0.0032 mg/L	0.01436	449.92%
K 766.490†	28.9	0.0186 mg/L		0.06211	0.0186 mg/L	0.06211	333.24%
Mg 285.213†	10.3	0.0011 mg/L		0.00046	0.0011 mg/L	0.00046	42.87%
Mn 257.610†	-0.2	-0.0000 mg/L		0.00068	-0.0000 mg/L	0.00068	>999.9%
Mo 202.031†	14.8	0.0006 mg/L		0.00018	0.0006 mg/L	0.00018	28.47%
Na 589.592†	-6.8	-0.0011 mg/L		0.01143	-0.0011 mg/L	0.01143	>999.9%

Ni 231.604†	-2.8	-0.0001 mg/L	0.00042	-0.0001 mg/L	0.00042	643.14%
Pb 220.353†	7693.9	1.089 mg/L	0.0185	1.089 mg/L	0.0185	1.70%
QC value within limits for Pb 220.353 Recovery = 108.93%						
Sb 206.836†	13.8	0.0038 mg/L	0.00229	0.0038 mg/L	0.00229	60.39%
Se 196.026†	3.6	0.0014 mg/L	0.00306	0.0014 mg/L	0.00306	220.05%
Sn 189.927†	15.7	0.0023 mg/L	0.00170	0.0023 mg/L	0.00170	74.06%
Ti 337.279†	0.7	0.0000 mg/L	0.00037	0.0000 mg/L	0.00037	893.71%
Tl 351.924†	37.6	0.0088 mg/L	0.00182	0.0088 mg/L	0.00182	20.62%
V 290.880†	136.3	0.0017 mg/L	0.00024	0.0017 mg/L	0.00024	13.99%
Zn 206.200†	64.9	0.0016 mg/L	0.00015	0.0016 mg/L	0.00015	9.63%
Zr 343.823†	85.0	0.0003 mg/L	0.00014	0.0003 mg/L	0.00014	46.63%
All analyte(s) passed QC.						

Sequence No.: 3

Sample ID: SEQ-ICB @2211107

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 9:58:17 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-ICB @2211107

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157687.5	105 %	0.79			0.75%
Y axial	3240381.8	103 %	0.58			0.56%
Ag 328.068†	27.8	0.0003 mg/L	0.00031	0.0003 mg/L	0.00031	95.54%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-29.8	-0.0069 mg/L	0.00638	-0.0069 mg/L	0.00638	91.89%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	0.1	0.0001 mg/L	0.00194	0.0001 mg/L	0.00194	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	177.6	0.0147 mg/L	0.00035	0.0147 mg/L	0.00035	2.40%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	-3.8	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	195.31%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	2.2	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	3.8	0.0008 mg/L	0.00254	0.0008 mg/L	0.00254	324.45%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	1.2	0.0000 mg/L	0.00012	0.0000 mg/L	0.00012	499.96%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-8.4	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	71.11%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	16.2	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	85.28%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	82.7	0.0005 mg/L	0.00022	0.0005 mg/L	0.00022	42.34%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	-0.2	-0.0022 mg/L	0.01955	-0.0022 mg/L	0.01955	899.61%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	-4.7	-0.0031 mg/L	0.05819	-0.0031 mg/L	0.05819	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-8.6	-0.0009 mg/L	0.00116	-0.0009 mg/L	0.00116	127.47%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	3.7	0.0006 mg/L	0.00009	0.0006 mg/L	0.00009	14.77%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.6	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	194.40%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-6.6	-0.0010 mg/L	0.00787	-0.0010 mg/L	0.00787	752.07%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-12.5	-0.0003 mg/L	0.00017	-0.0003 mg/L	0.00017	60.91%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	28.4	0.0040 mg/L	0.00146	0.0040 mg/L	0.00146	36.18%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	2.4	0.0007 mg/L	0.00196	0.0007 mg/L	0.00196	293.68%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.7	-0.0010 mg/L	0.00397	-0.0010 mg/L	0.00397	382.62%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-1.2	-0.0002 mg/L	0.00082	-0.0002 mg/L	0.00082	467.80%

QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 4.6 0.0003 mg/L 0.00028 0.0003 mg/L 0.00028 107.95%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 50.3 0.0118 mg/L 0.01319 0.0118 mg/L 0.01319 111.68%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 114.5 0.0014 mg/L 0.00025 0.0014 mg/L 0.00025 17.44%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 22.8 0.0006 mg/L 0.00014 0.0006 mg/L 0.00014 25.00%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 43.8 0.0002 mg/L 0.00020 0.0002 mg/L 0.00020 126.72%
 All analyte(s) passed QC.

Sequence No.: 4

Sample ID: SEQ-LCV @2211109

Analyst:

Initial Sample Wt: TI failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 110

Autosampler Location: 10

Date Collected: 4/11/2023 10:04:07 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-LCV @2211109

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156056.0	104 %	1.06			1.01%
Y axial	3247801.3	103 %	2.45			2.38%
Ag 328.068†	940.6	0.0110 mg/L	0.00098	0.0110 mg/L	0.00098	8.90%
QC value within limits for Ag 328.068			110.35%			
Al 396.153†	252.3	0.0572 mg/L	0.00454	0.0572 mg/L	0.00454	7.94%
QC value within limits for Al 396.153			114.34%			
As 188.979†	15.3	0.0080 mg/L	0.00145	0.0080 mg/L	0.00145	18.16%
QC value less than the lower limit for As 188.979			Recovery = 79.72%			
B 208.889†	1374.6	0.1107 mg/L	0.00249	0.1107 mg/L	0.00249	2.25%
QC value within limits for B 208.889			110.75%			
Ba 233.527†	5579.9	0.0546 mg/L	0.00117	0.0546 mg/L	0.00117	2.13%
QC value within limits for Ba 233.527			109.22%			
Be 313.107†	741.5	0.0044 mg/L	0.00013	0.0044 mg/L	0.00013	2.85%
QC value within limits for Be 313.107			110.86%			
Ca 317.933†	2503.2	0.5201 mg/L	0.00683	0.5201 mg/L	0.00683	1.31%
QC value within limits for Ca 317.933			104.02%			
Cd 228.802†	205.3	0.0044 mg/L	0.00013	0.0044 mg/L	0.00013	2.93%
QC value within limits for Cd 228.802			110.63%			
Co 228.616†	508.1	0.0108 mg/L	0.00031	0.0108 mg/L	0.00031	2.86%
QC value within limits for Co 228.616			107.61%			
Cr 267.716†	819.4	0.0110 mg/L	0.00033	0.0110 mg/L	0.00033	3.01%
QC value within limits for Cr 267.716			110.11%			
Cu 327.393†	1803.9	0.0115 mg/L	0.00062	0.0115 mg/L	0.00062	5.42%
QC value within limits for Cu 327.393			114.71%			
Fe 238.204†	4.7	0.0442 mg/L	0.01018	0.0442 mg/L	0.01018	23.05%
QC value within limits for Fe 238.204			88.30%			
K 766.490†	3200.3	2.063 mg/L	0.0447	2.063 mg/L	0.0447	2.17%
QC value within limits for K 766.490			103.15%			
Mg 285.213†	495.5	0.0526 mg/L	0.00072	0.0526 mg/L	0.00072	1.37%
QC value within limits for Mg 285.213			105.12%			
Mn 257.610†	64.1	0.0109 mg/L	0.00062	0.0109 mg/L	0.00062	5.71%
QC value within limits for Mn 257.610			108.67%			
Mo 202.031†	1252.5	0.0547 mg/L	0.00136	0.0547 mg/L	0.00136	2.49%
QC value within limits for Mo 202.031			109.41%			
Na 589.592†	13286.6	2.098 mg/L	0.0118	2.098 mg/L	0.0118	0.56%
QC value within limits for Na 589.592			104.91%			
Ni 231.604†	498.8	0.0107 mg/L	0.00060	0.0107 mg/L	0.00060	5.59%
QC value within limits for Ni 231.604			106.77%			
Pb 220.353†	90.7	0.0130 mg/L	0.00144	0.0130 mg/L	0.00144	11.04%
QC value greater than the upper limit for Pb 220.353			Recovery = 130.15%			
Sb 206.836†	170.8	0.0466 mg/L	0.00331	0.0466 mg/L	0.00331	7.11%
QC value within limits for Sb 206.836			93.19%			
Se 196.026†	146.3	0.0558 mg/L	0.00250	0.0558 mg/L	0.00250	4.48%
QC value within limits for Se 196.026			111.58%			
Sn 189.927†	735.3	0.1080 mg/L	0.00278	0.1080 mg/L	0.00278	2.57%
QC value within limits for Sn 189.927			108.05%			

Ti 337.279† 382.4 0.0216 mg/L 0.00073 0.0216 mg/L 0.00073 3.40%
 QC value within limits for Ti 337.279 Recovery = 107.87%
 Tl 351.924† 331.2 0.0777 mg/L 0.00808 0.0777 mg/L 0.00808 10.40%
 QC value greater than the upper limit for Tl 351.924 Recovery = 155.37%
 V 290.880† 993.0 0.0139 mg/L 0.00062 0.0139 mg/L 0.00062 4.41%
 QC value greater than the upper limit for V 290.880 Recovery = 139.41%
 Zn 206.200† 481.3 0.0119 mg/L 0.00007 0.0119 mg/L 0.00007 0.63%
 QC value within limits for Zn 206.200 Recovery = 118.88%
 Zr 343.823† 142.5 0.0005 mg/L 0.00020 0.0005 mg/L 0.00020 39.12%
 QC Failed. Continue with analysis.
 User canceled analysis.

Method Loaded

Method Name: ICP3 IEC040523

Method Last Saved: 4/11/2023 9:54:28 AM

IEC File: 0402A23.iec

MSF File:

Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 8

Autosampler Location: 13

Sample ID: SEQ-LCV@RR

Date Collected: 4/11/2023 10:12:46 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 0.01 ICV Dil Mix.

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156302.4	104 %	0.51			0.49%
Y axial	3158035.3	100 %	0.81			0.81%
Ag 328.068†	422.3	0.0049 mg/L	0.00041	0.0049 mg/L	0.00041	8.25%
Al 396.153†	46.9	0.0106 mg/L	0.00239	0.0106 mg/L	0.00239	22.66%
As 188.979†	17.1	0.0090 mg/L	0.00192	0.0090 mg/L	0.00192	21.19%
QC value within limits for As 188.979 Recovery = 90.38%						
B 208.889†	225.9	0.0181 mg/L	0.00040	0.0181 mg/L	0.00040	2.21%
Ba 233.527†	1062.6	0.0104 mg/L	0.00009	0.0104 mg/L	0.00009	0.87%
Be 313.107†	1660.3	0.0100 mg/L	0.00007	0.0100 mg/L	0.00007	0.75%

Ca 317.933†	53.3	0.0111 mg/L	0.00173	0.0111 mg/L	0.00173	15.63%
Cd 228.802†	481.0	0.0104 mg/L	0.00010	0.0104 mg/L	0.00010	1.01%
Co 228.616†	477.9	0.0101 mg/L	0.00024	0.0101 mg/L	0.00024	2.33%
Cr 267.716†	782.9	0.0105 mg/L	0.00007	0.0105 mg/L	0.00007	0.67%
Cu 327.393†	1587.8	0.0101 mg/L	0.00011	0.0101 mg/L	0.00011	1.13%
Fe 238.204†	1.3	0.0125 mg/L	0.01172	0.0125 mg/L	0.01172	93.42%
K 766.490†	-45.1	-0.0290 mg/L	0.01910	-0.0290 mg/L	0.01910	65.74%
Mg 285.213†	88.6	0.0092 mg/L	0.00074	0.0092 mg/L	0.00074	8.03%
Mn 257.610†	61.7	0.0105 mg/L	0.00114	0.0105 mg/L	0.00114	10.92%
Mo 202.031†	237.1	0.0104 mg/L	0.00030	0.0104 mg/L	0.00030	2.88%
Na 589.592†	94.4	0.0149 mg/L	0.00941	0.0149 mg/L	0.00941	63.13%
Ni 231.604†	472.7	0.0101 mg/L	0.00021	0.0101 mg/L	0.00021	2.07%
Pb 220.353†	88.8	0.0126 mg/L	0.00088	0.0126 mg/L	0.00088	7.01%
QC value greater than the upper limit for Pb 220.353 Recovery = 126.04% See RR: 04/12/23 ATP						
Sb 206.836†	50.3	0.0136 mg/L	0.00108	0.0136 mg/L	0.00108	7.91%
Se 196.026†	30.0	0.0114 mg/L	0.00040	0.0114 mg/L	0.00040	3.52%
Sn 189.927†	73.1	0.0108 mg/L	0.00174	0.0108 mg/L	0.00174	16.18%
Ti 337.279†	186.2	0.0105 mg/L	0.00051	0.0105 mg/L	0.00051	4.85%
Tl 351.924†	77.8	0.0182 mg/L	0.00260	0.0182 mg/L	0.00260	14.30%
V 290.880†	1008.9	0.0130 mg/L	0.00029	0.0130 mg/L	0.00029	2.22%
QC value greater than the upper limit for V 290.880 Recovery = 129.97% See RR: 04/12/23 ATP						
Zn 206.200†	432.1	0.0107 mg/L	0.00015	0.0107 mg/L	0.00015	1.38%
Zr 343.823†	2592.3	0.0092 mg/L	0.00037	0.0092 mg/L	0.00037	3.99%
QC Failed. Continue with analysis.						
User canceled analysis.						

Method Loaded

Method Name: ICP3 IEC040523

IEC File: 0402A23.iec

Method Description: Soils and Waters

Method Last Saved: 4/11/2023 10:19:17 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	No
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 8

Sample ID: SEQ-LCV@RR

Analyst:

Initial Sample Wt: 0.015 ICV Dil Mix.

Dilution:

Wash Time (before sample):

Autosampler Location: 13

Date Collected: 4/11/2023 10:20:40 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

V failed; 04/12/23 ATP

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	157527.9	105	%	3.28				3.12%
Y axial	3280352.5	104	%	1.55				1.49%
Ag 328.068†	739.3	0.0086	mg/L	0.00059	0.0086	mg/L	0.00059	6.84%
Al 396.153†	54.7	0.0122	mg/L	0.01015	0.0122	mg/L	0.01015	83.34%
As 188.979†	25.1	0.0133	mg/L	0.00302	0.0133	mg/L	0.00302	22.68%
B 208.889†	251.0	0.0200	mg/L	0.00080	0.0200	mg/L	0.00080	4.02%
Ba 233.527†	1572.1	0.0154	mg/L	0.00009	0.0154	mg/L	0.00009	0.60%
Be 313.107†	2562.1	0.0154	mg/L	0.00054	0.0154	mg/L	0.00054	3.51%
Ca 317.933†	62.3	0.0129	mg/L	0.00233	0.0129	mg/L	0.00233	18.00%
Cd 228.802†	686.9	0.0148	mg/L	0.00027	0.0148	mg/L	0.00027	1.84%
Co 228.616†	698.8	0.0148	mg/L	0.00022	0.0148	mg/L	0.00022	1.46%
Cr 267.716†	1138.5	0.0153	mg/L	0.00030	0.0153	mg/L	0.00030	1.94%
Cu 327.393†	2287.5	0.0145	mg/L	0.00044	0.0145	mg/L	0.00044	3.06%
Fe 238.204†	0.3	0.0033	mg/L	0.00240	0.0033	mg/L	0.00240	71.85%
K 766.490†	-16.9	-0.0109	mg/L	0.04317	-0.0109	mg/L	0.04317	396.79%
Mg 285.213†	132.5	0.0138	mg/L	0.00088	0.0138	mg/L	0.00088	6.40%
Mn 257.610†	96.0	0.0163	mg/L	0.00023	0.0163	mg/L	0.00023	1.43%
Mo 202.031†	342.8	0.0150	mg/L	0.00049	0.0150	mg/L	0.00049	3.30%
Na 589.592†	80.7	0.0127	mg/L	0.00646	0.0127	mg/L	0.00646	50.74%
Ni 231.604†	685.7	0.0147	mg/L	0.00002	0.0147	mg/L	0.00002	0.16%
Pb 220.353†	126.3	0.0179	mg/L	0.00179	0.0179	mg/L	0.00179	10.00%
QC value within limits for Pb 220.353 Recovery = 119.50%								
Sb 206.836†	57.8	0.0156	mg/L	0.00144	0.0156	mg/L	0.00144	9.22%
Se 196.026†	42.7	0.0163	mg/L	0.00055	0.0163	mg/L	0.00055	3.39%
Sn 189.927†	109.7	0.0162	mg/L	0.00015	0.0162	mg/L	0.00015	0.91%
Ti 337.279†	271.9	0.0153	mg/L	0.00030	0.0153	mg/L	0.00030	1.93%
Tl 351.924†	24.1	0.0055	mg/L	0.01129	0.0055	mg/L	0.01129	203.64%
V 290.880†	1428.4	0.0184	mg/L	0.00037	0.0184	mg/L	0.00037	1.99%
QC value greater than the upper limit for V 290.880 Recovery = 122.74%								
Zn 206.200†	631.9	0.0156	mg/L	0.00018	0.0156	mg/L	0.00018	1.14%
Zr 343.823†	3920.2	0.0140	mg/L	0.00035	0.0140	mg/L	0.00035	2.54%
QC Failed. Continue with analysis.								
User canceled analysis.								

Sequence No.: 5

Sample ID: SEQ-CCV @2211091

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

Autosampler Location: 5

Date Collected: 4/11/2023 10:25:40 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV @2211091

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	157173.7	105	%	1.10				1.05%
Y axial	3103101.8	98.4	%	0.38				0.39%
Ag 328.068†	204257.0	2.379	mg/L	0.0342	2.379	mg/L	0.0342	1.44%
QC value within limits for Ag 328.068 Recovery = 95.17%								
Al 396.153†	41778.5	9.547	mg/L	0.0363	9.547	mg/L	0.0363	0.38%
QC value within limits for Al 396.153 Recovery = 95.47%								
As 188.979†	9577.3	5.062	mg/L	0.0237	5.062	mg/L	0.0237	0.47%
QC value within limits for As 188.979 Recovery = 101.24%								
B 208.889†	60324.6	4.724	mg/L	0.0093	4.724	mg/L	0.0093	0.20%
QC value within limits for B 208.889 Recovery = 94.47%								
Ba 233.527†	516109.6	5.055	mg/L	0.0115	5.055	mg/L	0.0115	0.23%
QC value within limits for Ba 233.527 Recovery = 101.10%								
Be 313.107†	834006.0	5.014	mg/L	0.0193	5.014	mg/L	0.0193	0.39%
QC value within limits for Be 313.107 Recovery = 100.29%								
Ca 317.933†	47684.7	9.907	mg/L	0.0355	9.907	mg/L	0.0355	0.36%
QC value within limits for Ca 317.933 Recovery = 99.07%								
Cd 228.802†	232401.6	5.002	mg/L	0.0159	5.002	mg/L	0.0159	0.32%
QC value within limits for Cd 228.802 Recovery = 100.05%								
Co 228.616†	235846.7	4.981	mg/L	0.0118	4.981	mg/L	0.0118	0.24%

		Mean	Corrected	Calib.		Sample		
Analyte		Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.
								RSD
Y radial		147613.9	98.5	%	1.45			1.47%
Y axial		2894219.9	91.8	%	0.76			0.82%
Ag	328.068†	-298.2	-0.0035	mg/L	0.00033	-0.0035	mg/L	0.00033
	QC value within limits for Ag	328.068	Recovery =	Not calculated				9.47%
Al	396.153†	1053946.4	245.8	mg/L	7.46	245.8	mg/L	7.46
	QC value within limits for Al	396.153	Recovery =	98.31%				3.04%
As	188.979†	-51.7	-0.0048	mg/L	0.00176	-0.0048	mg/L	0.00176
	QC value within limits for As	188.979	Recovery =	Not calculated				36.93%
B	208.889†	241.9	0.0207	mg/L	0.00058	0.0207	mg/L	0.00058
	QC value within limits for B	208.889	Recovery =	Not calculated				2.81%
Ba	233.527†	392.3	0.0039	mg/L	0.00003	0.0039	mg/L	0.00003
	QC value within limits for Ba	233.527	Recovery =	Not calculated				0.71%
Be	313.107†	133.2	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002
	QC value within limits for Be	313.107	Recovery =	Not calculated				4.26%
Ca	317.933†	1160141.0	241.0	mg/L	7.66	241.0	mg/L	7.66
	QC value within limits for Ca	317.933	Recovery =	96.42%				3.18%
Cd	228.802†	7.5	0.0003	mg/L	0.00019	0.0003	mg/L	0.00019
	QC value within limits for Cd	228.802	Recovery =	Not calculated				60.35%
Co	228.616†	34.1	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015
	QC value within limits for Co	228.616	Recovery =	Not calculated				21.52%

Cr 267.716†	-199.2	-0.0007 mg/L	0.00032	-0.0007 mg/L	0.00032	43.01%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-286.2	0.0006 mg/L	0.00048	0.0006 mg/L	0.00048	83.70%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	10245.7	98.29 mg/L	1.592	98.29 mg/L	1.592	1.62%
QC value within limits for Fe 238.204 Recovery = 98.29%						
K 766.490†	89.0	0.0574 mg/L	0.04510	0.0574 mg/L	0.04510	78.60%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1949495.3	206.8 mg/L	5.83	206.8 mg/L	5.83	2.82%
QC value within limits for Mg 285.213 Recovery = 82.73%						
Mn 257.610†	44.7	0.0076 mg/L	0.00072	0.0076 mg/L	0.00072	9.46%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-323.2	-0.0141 mg/L	0.00027	-0.0141 mg/L	0.00027	1.92%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	335.8	0.0530 mg/L	0.00252	0.0530 mg/L	0.00252	4.76%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-17.0	-0.0003 mg/L	0.00005	-0.0003 mg/L	0.00005	19.02%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-163.9	-0.0014 mg/L	0.00314	-0.0014 mg/L	0.00314	227.53%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	164.4	0.0046 mg/L	0.00143	0.0046 mg/L	0.00143	31.31%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	49.5	0.0189 mg/L	0.00742	0.0189 mg/L	0.00742	39.36%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-45.8	-0.0067 mg/L	0.00225	-0.0067 mg/L	0.00225	33.50%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	17.2	0.0010 mg/L	0.00055	0.0010 mg/L	0.00055	56.50%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-509.4	-0.0500 mg/L	0.00224	-0.0500 mg/L	0.00224	4.48%
QC value less than the lower limit for Tl 351.924 Recovery = Not calculated						
V 290.880†	6147.1	-0.0008 mg/L	0.00210	-0.0008 mg/L	0.00210	265.04%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-162.1	-0.0077 mg/L	0.00038	-0.0077 mg/L	0.00038	4.89%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	908.9	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	16.62%
QC Failed. Continue with analysis.						

Sequence No.: 7

Sample ID: SEQ-IFB @2211114

Analyst:

Initial Sample Wt: **Se failed; 04/12/23 ATP**

Dilution:

Wash Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/11/2023 10:38:24 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB @2211114

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	149300.8	99.6 %		1.01			1.01%
Y axial	2851772.5	90.4 %		0.97			1.07%
Ag 328.068†	35885.1	0.4212 mg/L		0.01077	0.4212 mg/L	0.01077	2.56%
QC value within limits for Ag 328.068 Recovery = 105.30%							
Al 396.153†	1048396.8	244.5 mg/L		0.61	244.5 mg/L	0.61	0.25%
QC value within limits for Al 396.153 Recovery = 97.79%							
As 188.979†	298.3	0.1886 mg/L		0.00360	0.1886 mg/L	0.00360	1.91%
QC value within limits for As 188.979 Recovery = 94.30%							
B 208.889†	153.5	0.0135 mg/L		0.00079	0.0135 mg/L	0.00079	5.85%
QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	102052.5	0.9996 mg/L		0.00025	0.9996 mg/L	0.00025	0.03%
QC value within limits for Ba 233.527 Recovery = 99.96%							
Be 313.107†	168875.8	1.014 mg/L		0.0026	1.014 mg/L	0.0026	0.26%
QC value within limits for Be 313.107 Recovery = 101.43%							
Ca 317.933†	1159433.1	240.9 mg/L		0.34	240.9 mg/L	0.34	0.14%
QC value within limits for Ca 317.933 Recovery = 96.36%							
Cd 228.802†	94449.0	2.039 mg/L		0.0050	2.039 mg/L	0.0050	0.25%
QC value within limits for Cd 228.802 Recovery = 101.96%							
Co 228.616†	43070.8	0.9090 mg/L		0.00735	0.9090 mg/L	0.00735	0.81%
QC value within limits for Co 228.616 Recovery = 90.90%							
Cr 267.716†	71586.3	0.9646 mg/L		0.00017	0.9646 mg/L	0.00017	0.02%

QC value within limits for Cr 267.716 Recovery = 96.46%

Cu 327.393† 157684.4 1.001 mg/L 0.0013 1.001 mg/L 0.0013 0.13%

QC value within limits for Cu 327.393 Recovery = 100.10%

Fe 238.204† 10249.6 98.33 mg/L 0.930 98.33 mg/L 0.930 0.95%

QC value within limits for Fe 238.204 Recovery = 98.33%

K 766.490† 23.9 0.0154 mg/L 0.01044 0.0154 mg/L 0.01044 67.78%

QC value within limits for K 766.490 Recovery = Not calculated

Mg 285.213† 1948307.1 206.7 mg/L 0.68 206.7 mg/L 0.68 0.33%

QC value within limits for Mg 285.213 Recovery = 82.68%

Mn 257.610† 5803.0 0.9831 mg/L 0.00899 0.9831 mg/L 0.00899 0.91%

QC value within limits for Mn 257.610 Recovery = 98.31%

Mo 202.031† -355.8 -0.0155 mg/L 0.00061 -0.0155 mg/L 0.00061 3.95%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592† 422.3 0.0667 mg/L 0.00217 0.0667 mg/L 0.00217 3.25%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604† 85052.2 1.827 mg/L 0.0017 1.827 mg/L 0.0017 0.09%

QC value within limits for Ni 231.604 Recovery = 91.34%

Pb 220.353† 509.8 0.0933 mg/L 0.00278 0.0933 mg/L 0.00278 2.97%

QC value within limits for Pb 220.353 Recovery = 93.31%

Sb 206.836† 4204.5 1.102 mg/L 0.0111 1.102 mg/L 0.0111 1.01%

QC value within limits for Sb 206.836 Recovery = 91.87%

Se 196.026† 328.6 0.1243 mg/L 0.00558 0.1243 mg/L 0.00558 4.49%

QC value greater than the upper limit for Se 196.026 Recovery = 124.34%

Sn 189.927† -59.6 -0.0087 mg/L 0.00402 -0.0087 mg/L 0.00402 45.96%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279† 8.2 0.0005 mg/L 0.00001 0.0005 mg/L 0.00001 2.68%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 351.924† 622.5 0.2126 mg/L 0.00593 0.2126 mg/L 0.00593 2.79%

QC value within limits for Tl 351.924 Recovery = 106.32%

V 290.880† 87403.6 1.025 mg/L 0.0023 1.025 mg/L 0.0023 0.22%

QC value within limits for V 290.880 Recovery = 102.45%

Zn 206.200† 77467.8 1.909 mg/L 0.0025 1.909 mg/L 0.0025 0.13%

QC value within limits for Zn 206.200 Recovery = 95.47%

Zr 343.823† 943.2 0.0007 mg/L 0.00012 0.0007 mg/L 0.00012 17.74%

QC Failed. Continue with analysis.

User canceled analysis.

Sequence No.: 9

Sample ID: SEQ-HCV1@100

Analyst:

Initial Sample Wt: Ba, Cd, Tl failed; 04/12/23

Dilution:

Wash Time (before sample):

Autosampler Location: 37

Date Collected: 4/11/2023 10:44:32 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV1@100

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155043.9	103 %		0.70			0.67%
Y axial	2989230.2	94.8 %		0.98			1.03%
Ag 328.068†	-1025.8	0.0081 mg/L		0.00130	0.0081 mg/L	0.00130	16.01%
Al 396.153†	424351.6	98.96 mg/L		0.269	98.96 mg/L	0.269	0.27%
QC value within limits for Al 396.153							Recovery = 98.96%
As 188.979†	180121.6	95.43 mg/L		0.176	95.43 mg/L	0.176	0.18%
QC value within limits for As 188.979							Recovery = 95.43%
B 208.889†	-4.5	0.0033 mg/L		0.00081	0.0033 mg/L	0.00081	24.84%
Ba 233.527†	8840922.0	86.61 mg/L		0.303	86.61 mg/L	0.303	0.35%
QC value less than the lower limit for Ba 233.527							Recovery = 86.61%
Be 313.107†	16198871.5	97.31 mg/L		1.681	97.31 mg/L	1.681	1.73%
QC value within limits for Be 313.107							Recovery = 97.31%
Ca 317.933†	657.1	0.1365 mg/L		0.01363	0.1365 mg/L	0.01363	9.98%
Cd 228.802†	3484441.8	74.97 mg/L		0.308	74.97 mg/L	0.308	0.41%
QC value less than the lower limit for Cd 228.802							Recovery = 74.97%
Co 228.616†	4410811.4	93.17 mg/L		0.282	93.17 mg/L	0.282	0.30%
QC value within limits for Co 228.616							Recovery = 93.17%
Cr 267.716†	7051284.7	94.82 mg/L		0.298	94.82 mg/L	0.298	0.31%
QC value within limits for Cr 267.716							Recovery = 94.82%
Cu 327.393†	15907058.9	100.7 mg/L		0.28	100.7 mg/L	0.28	0.28%
QC value within limits for Cu 327.393							Recovery = 100.74%

Fe 238.204†	10117.3	97.78 mg/L	0.412	97.78 mg/L	0.412	0.42%
QC value within limits for Fe 238.204 Recovery = 97.78%						
K 766.490†	-102.2	-0.0659 mg/L	0.03664	-0.0659 mg/L	0.03664	55.59%
Mg 285.213†	97.9	0.0419 mg/L	0.00364	0.0419 mg/L	0.00364	8.68%
Mn 257.610†	588903.9	99.77 mg/L	0.161	99.77 mg/L	0.161	0.16%
QC value within limits for Mn 257.610 Recovery = 99.77%						
Mo 202.031†	-1595.2	-0.0697 mg/L	0.00078	-0.0697 mg/L	0.00078	1.12%
Na 589.592†	188.4	0.0298 mg/L	0.01178	0.0298 mg/L	0.01178	39.58%
Ni 231.604†	4427131.3	94.98 mg/L	0.256	94.98 mg/L	0.256	0.27%
QC value within limits for Ni 231.604 Recovery = 94.98%						
Pb 220.353†	683290.6	96.66 mg/L	0.092	96.66 mg/L	0.092	0.10%
QC value within limits for Pb 220.353 Recovery = 96.66%						
Sb 206.836†	4202.4	-0.2461 mg/L	0.00553	-0.2461 mg/L	0.00553	2.25%
Se 196.026†	272401.8	103.8 mg/L	0.23	103.8 mg/L	0.23	0.22%
QC value within limits for Se 196.026 Recovery = 103.82%						
Sn 189.927†	-146.1	-0.0215 mg/L	0.00090	-0.0215 mg/L	0.00090	4.17%
Ti 337.279†	-55.6	-0.0031 mg/L	0.00029	-0.0031 mg/L	0.00029	9.23%
Tl 351.924†	566616.0	132.8 mg/L	0.19	132.8 mg/L	0.19	0.14%
QC value greater than the upper limit for Tl 351.924 Recovery = 132.82%						
V 290.880†	8090777.6	102.1 mg/L	0.27	102.1 mg/L	0.27	0.26%
QC value within limits for V 290.880 Recovery = 102.08%						
Zn 206.200†	3751614.8	92.86 mg/L	0.189	92.86 mg/L	0.189	0.20%
QC value within limits for Zn 206.200 Recovery = 92.86%						
Zr 343.823†	-1769.2	-0.0090 mg/L	0.00016	-0.0090 mg/L	0.00016	1.78%
QC Failed. Continue with analysis.						

Sequence No.: 10

Sample ID: SEQ-HCV2@500/100

Analyst:

Initial Sample Wt: K, Mg; Failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 220

Autosampler Location: 36

Date Collected: 4/11/2023 10:51:37 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145072.8	96.8 %		1.01			1.04%
Y axial	2675700.5	84.9 %		0.88			1.03%
Ag 328.068†	-1696.3	-0.0199 mg/L	0.00143	0.00143	-0.0199 mg/L	0.00143	7.17%
Al 396.153†	2182928.5	509.0 mg/L	7.42	7.42	509.0 mg/L	7.42	1.46%
QC value within limits for Al 396.153 Recovery = 101.81%							
As 188.979†	-153.4	0.0012 mg/L	0.00667	0.00667	0.0012 mg/L	0.00667	554.34%
B 208.889†	1111140.8	91.84 mg/L	0.181	0.181	91.84 mg/L	0.181	0.20%
Ba 233.527†	1284.4	0.0127 mg/L	0.00054	0.00054	0.0127 mg/L	0.00054	4.25%
Be 313.107†	1439.5	0.0083 mg/L	0.00044	0.00044	0.0083 mg/L	0.00044	5.30%
Ca 317.933†	2298784.2	477.6 mg/L	7.59	7.59	477.6 mg/L	7.59	1.59%
QC value within limits for Ca 317.933 Recovery = 95.52%							
Cd 228.802†	302.3	0.0071 mg/L	0.00040	0.00040	0.0071 mg/L	0.00040	5.71%
Co 228.616†	885.8	0.0186 mg/L	0.00038	0.00038	0.0186 mg/L	0.00038	2.04%
Cr 267.716†	-142.4	0.0073 mg/L	0.00047	0.00047	0.0073 mg/L	0.00047	6.40%
Cu 327.393†	3365.9	0.0328 mg/L	0.00073	0.00073	0.0328 mg/L	0.00073	2.22%
Fe 238.204†	49512.9	475.5 mg/L	6.30	6.30	475.5 mg/L	6.30	1.32%
QC value within limits for Fe 238.204 Recovery = 95.10%							
K 766.490†	351299.0	226.4 mg/L	0.63	0.63	226.4 mg/L	0.63	0.28%
QC value greater than the upper limit for K 766.490 Recovery = 113.22%							
Mg 285.213†	1598101.0	169.7 mg/L	2.68	2.68	169.7 mg/L	2.68	1.58%
QC value less than the lower limit for Mg 285.213 Recovery = 84.84%							
Mn 257.610†	109.2	0.0185 mg/L	0.00093	0.00093	0.0185 mg/L	0.00093	5.02%
Mo 202.031†	-1114.8	-0.0487 mg/L	0.00112	0.00112	-0.0487 mg/L	0.00112	2.31%
Na 589.592†	3200778.4	505.4 mg/L	7.47	7.47	505.4 mg/L	7.47	1.48%
QC value within limits for Na 589.592 Recovery = 101.09%							
Ni 231.604†	1096.9	0.0239 mg/L	0.00020	0.00020	0.0239 mg/L	0.00020	0.82%
Pb 220.353†	41.2	0.0366 mg/L	0.00043	0.00043	0.0366 mg/L	0.00043	1.16%
Sb 206.836†	414.5	0.0031 mg/L	0.00174	0.00174	0.0031 mg/L	0.00174	56.08%
Se 196.026†	57.3	0.0218 mg/L	0.00578	0.00578	0.0218 mg/L	0.00578	26.50%
Sn 189.927†	107.9	0.0158 mg/L	0.00581	0.00581	0.0158 mg/L	0.00581	36.66%
Ti 337.279†	22.1	0.0012 mg/L	0.00100	0.00100	0.0012 mg/L	0.00100	80.24%
Tl 351.924†	-2409.9	-0.2289 mg/L	0.00215	0.00215	-0.2289 mg/L	0.00215	0.94%

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V 290.880†	10084.3	0.0146 mg/L	0.00183	0.0146 mg/L	0.00183	12.54%
Zn 206.200†	1258.9	0.0005 mg/L	0.00105	0.0005 mg/L	0.00105	208.52%
Zr 343.823†	3730.9	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	75.87%

QC Failed. Continue with analysis.

Sequence No.: 11

Sample ID: ICV-RR

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

User canceled analysis.

Autosampler Location: 25

Date Collected: 4/11/2023 10:59:22 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

S085874

Instrument: ICP3

Calibration ID: 2300441

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S085874-IFA1	QC		1		2211113	2304167	
S085874-IFB1	QC		2		2304164	2304167	
S085874-CCV1	QC		3		2211103	2304167	
S085874-CCB1	QC		4		2211096	2304167	
B335766-BLK1	QC		5			2304167	
B335766-BS1	QC		6			2304167	
S085874-CCV2	QC		7		2211103	2304167	
S085874-CCB2	QC		8		2211096	2304167	
B335766-BSD1	QC		9			2304167	
B335766-MS1	QC		10			2304167	
B335766-MSD1	QC		11			2304167	
23C3284-02	Cadmium 6010 Total	A	12			2304167	CAT B - Report to MDL
23C3284-02	Chromium 6010 Total	A	13			2304167	CAT B - Report to MDL
23C3284-02	Copper 6010 Total	A	14			2304167	CAT B - Report to MDL
23C3284-02	Nickel 6010 Total	A	15			2304167	CAT B - Report to MDL
23C3284-01	Cadmium 6010 Total	A	16			2304167	CAT B - Report to MDL
23C3284-01	Chromium 6010 Total	A	17			2304167	CAT B - Report to MDL
23C3284-01	Copper 6010 Total	A	18			2304167	CAT B - Report to MDL
23C3284-01	Nickel 6010 Total	A	19			2304167	CAT B - Report to MDL
23C3284-03	Cadmium 6010 Total	A	20			2304167	CAT B - Report to MDL
23C3284-03	Chromium 6010 Total	A	21			2304167	CAT B - Report to MDL
23C3284-03	Copper 6010 Total	A	22			2304167	CAT B - Report to MDL
23C3284-03	Nickel 6010 Total	A	23			2304167	CAT B - Report to MDL
23C3284-04	Cadmium 6010 Total	A	24			2304167	CAT B - Report to MDL
23C3284-04	Chromium 6010 Total	A	25			2304167	CAT B - Report to MDL
23C3284-04	Copper 6010 Total	A	26			2304167	CAT B - Report to MDL
23C3284-04	Nickel 6010 Total	A	27			2304167	CAT B - Report to MDL
23C3284-05	Cadmium 6010 Total	A	28			2304167	CAT B - Report to MDL
23C3284-05	Chromium 6010 Total	A	29			2304167	CAT B - Report to MDL
23C3284-05	Copper 6010 Total	A	30			2304167	CAT B - Report to MDL
23C3284-05	Nickel 6010 Total	A	31			2304167	CAT B - Report to MDL
S085874-CCV3	QC		32		2211103	2304167	
S085874-CCB3	QC		33		2211096	2304167	

Samples Loaded By

Date

Data Processed By

Date

S085874

Instrument: ICP3

Calibration ID: 2300441

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
23C3284-06	Cadmium 6010 Total	A	34			2304167	CAT B - Report to MDL
23C3284-06	Chromium 6010 Total	A	35			2304167	CAT B - Report to MDL
23C3284-06	Copper 6010 Total	A	36			2304167	CAT B - Report to MDL
23C3284-06	Nickel 6010 Total	A	37			2304167	CAT B - Report to MDL
23C3284-08	Cadmium 6010 Total	A	38			2304167	CAT B - Report to MDL
23C3284-08	Chromium 6010 Total	A	39			2304167	CAT B - Report to MDL
23C3284-08	Copper 6010 Total	A	40			2304167	CAT B - Report to MDL
23C3284-08	Nickel 6010 Total	A	41			2304167	CAT B - Report to MDL
S085874-IFA2	QC		42		2211113	2304167	
S085874-IFB2	QC		43		2304164	2304167	
S085874-CCV4	QC		44		2211103	2304167	
S085874-CCB4	QC		45		2211096	2304167	

Samples Loaded By

Date

Data Processed By

Date

Sequence No.: 1
 Sample ID: SEQ-ICV @2211094
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):
 User canceled analysis.

Autosampler Location: 8
 Date Collected: 4/11/2023 11:52:55 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sequence No.: 13
 Sample ID: RINSE
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):

Autosampler Location: 7
 Date Collected: 4/11/2023 11:53:23 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	159116.1	106 %		0.99			0.93%
Y axial	3171903.2	101 %		0.48			0.48%
Ag 328.068†	21.4	0.0003 mg/L		0.00059	0.0003 mg/L	0.00059	233.53%
Al 396.153†	15.5	0.0036 mg/L		0.00472	0.0036 mg/L	0.00472	131.45%
As 188.979†	-4.3	-0.0023 mg/L		0.00185	-0.0023 mg/L	0.00185	82.23%
B 208.889†	502.3	0.0415 mg/L		0.00032	0.0415 mg/L	0.00032	0.78%
Ba 233.527†	-20.4	-0.0002 mg/L		0.00004	-0.0002 mg/L	0.00004	18.37%
Be 313.107†	2.5	0.0000 mg/L		0.00005	0.0000 mg/L	0.00005	961.16%
Ca 317.933†	26.6	0.0055 mg/L		0.00546	0.0055 mg/L	0.00546	98.89%
Cd 228.802†	-1.7	-0.0000 mg/L		0.00001	-0.0000 mg/L	0.00001	22.98%
Co 228.616†	-20.2	-0.0004 mg/L		0.00008	-0.0004 mg/L	0.00008	17.57%
Cr 267.716†	64.6	0.0009 mg/L		0.00021	0.0009 mg/L	0.00021	24.51%
Cu 327.393†	1557.3	0.0099 mg/L		0.00080	0.0099 mg/L	0.00080	8.14%
Fe 238.204†	-0.7	-0.0070 mg/L		0.00094	-0.0070 mg/L	0.00094	13.52%
K 766.490†	-18.4	-0.0119 mg/L		0.03273	-0.0119 mg/L	0.03273	275.89%
Mg 285.213†	11.8	0.0012 mg/L		0.00054	0.0012 mg/L	0.00054	43.87%
Mn 257.610†	3.8	0.0006 mg/L		0.00097	0.0006 mg/L	0.00097	148.96%
Mo 202.031†	14.9	0.0007 mg/L		0.00010	0.0007 mg/L	0.00010	14.70%
Na 589.592†	201.3	0.0318 mg/L		0.01289	0.0318 mg/L	0.01289	40.54%
Ni 231.604†	-32.2	-0.0007 mg/L		0.00042	-0.0007 mg/L	0.00042	60.92%
Pb 220.353†	29.9	0.0042 mg/L		0.00053	0.0042 mg/L	0.00053	12.63%
Sb 206.836†	14.1	0.0039 mg/L		0.00134	0.0039 mg/L	0.00134	34.54%
Se 196.026†	2.5	0.0009 mg/L		0.00115	0.0009 mg/L	0.00115	122.21%
Sn 189.927†	9.9	0.0015 mg/L		0.00106	0.0015 mg/L	0.00106	72.86%
Ti 337.279†	27.9	0.0016 mg/L		0.00020	0.0016 mg/L	0.00020	12.48%
Tl 351.924†	7.5	0.0017 mg/L		0.00520	0.0017 mg/L	0.00520	299.49%
V 290.880†	262.0	0.0033 mg/L		0.00008	0.0033 mg/L	0.00008	2.27%
Zn 206.200†	41.7	0.0010 mg/L		0.00006	0.0010 mg/L	0.00006	5.97%
Zr 343.823†	89.9	0.0003 mg/L		0.00016	0.0003 mg/L	0.00016	49.41%

Sequence No.: 14
 Sample ID: B336661-BLK1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 220

Autosampler Location: 38
 Date Collected: 4/11/2023 12:00:55 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336661-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156555.1	104 %		1.33			1.27%
Y axial	3184274.2	101 %		0.25			0.25%
Ag 328.068†	1.0	0.0000 mg/L		0.00045	0.0000 mg/L	0.00045	>999.9%
Al 396.153†	33.2	0.0077 mg/L		0.00370	0.0077 mg/L	0.00370	47.85%
As 188.979†	-1.7	-0.0009 mg/L		0.00107	-0.0009 mg/L	0.00107	123.17%
B 208.889†	389.5	0.0322 mg/L		0.00059	0.0322 mg/L	0.00059	1.83%

Ba 233.527†	-7.5	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	84.28%
Be 313.107†	25.0	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	41.43%
Ca 317.933†	66.4	0.0138 mg/L	0.00251	0.0138 mg/L	0.00251	18.21%
Cd 228.802†	-9.7	-0.0002 mg/L	0.00010	-0.0002 mg/L	0.00010	49.99%
Co 228.616†	-8.5	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	3.28%
Cr 267.716†	15.5	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	78.76%
Cu 327.393†	132.9	0.0008 mg/L	0.00061	0.0008 mg/L	0.00061	72.52%
Fe 238.204†	-3.3	-0.0316 mg/L	0.01872	-0.0316 mg/L	0.01872	59.33%
K 766.490†	-69.4	-0.0448 mg/L	0.03059	-0.0448 mg/L	0.03059	68.35%
Mg 285.213†	11.6	0.0012 mg/L	0.00029	0.0012 mg/L	0.00029	23.70%
Mn 257.610†	-0.2	-0.0000 mg/L	0.00033	-0.0000 mg/L	0.00033	984.13%
Mo 202.031†	4.8	0.0002 mg/L	0.00026	0.0002 mg/L	0.00026	123.14%
Na 589.592†	167.3	0.0264 mg/L	0.00084	0.0264 mg/L	0.00084	3.17%
Ni 231.604†	-35.9	-0.0008 mg/L	0.00007	-0.0008 mg/L	0.00007	8.68%
Pb 220.353†	22.5	0.0032 mg/L	0.00085	0.0032 mg/L	0.00085	26.77%
Sb 206.836†	10.4	0.0029 mg/L	0.00066	0.0029 mg/L	0.00066	23.08%
Se 196.026†	-4.7	-0.0018 mg/L	0.00432	-0.0018 mg/L	0.00432	238.96%
Sn 189.927†	2.1	0.0003 mg/L	0.00070	0.0003 mg/L	0.00070	225.88%
Ti 337.279†	13.1	0.0007 mg/L	0.00011	0.0007 mg/L	0.00011	15.36%
Tl 351.924†	-3.2	-0.0008 mg/L	0.00606	-0.0008 mg/L	0.00606	769.15%
V 290.880†	272.1	0.0034 mg/L	0.00004	0.0034 mg/L	0.00004	1.17%
Zn 206.200†	93.2	0.0023 mg/L	0.00036	0.0023 mg/L	0.00036	15.60%
Zr 343.823†	33.3	0.0001 mg/L	0.00026	0.0001 mg/L	0.00026	214.44%

Sequence No.: 15

Sample ID: B336661-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 39

Date Collected: 4/11/2023 12:06:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336661-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156494.0	104 %		0.67			0.64%
Y axial	3126338.4	99.1 %		0.33			0.34%
Ag 328.068†	45254.6	0.5310 mg/L		0.00546	0.5310 mg/L	0.00546	1.03%
Al 396.153†	2104.3	0.4755 mg/L		0.00912	0.4755 mg/L	0.00912	1.92%
As 188.979†	934.2	0.4943 mg/L		0.00156	0.4943 mg/L	0.00156	0.32%
B 208.889†	12188.8	0.9810 mg/L		0.00045	0.9810 mg/L	0.00045	0.05%
Ba 233.527†	52452.0	0.5138 mg/L		0.00151	0.5138 mg/L	0.00151	0.29%
Be 313.107†	86281.4	0.5183 mg/L		0.00813	0.5183 mg/L	0.00813	1.57%
Ca 317.933†	18894.2	3.926 mg/L		0.0515	3.926 mg/L	0.0515	1.31%
Cd 228.802†	23632.7	0.5088 mg/L		0.00190	0.5088 mg/L	0.00190	0.37%
Co 228.616†	23731.8	0.5012 mg/L		0.00066	0.5012 mg/L	0.00066	0.13%
Cr 267.716†	37281.3	0.5013 mg/L		0.00188	0.5013 mg/L	0.00188	0.38%
Cu 327.393†	153951.9	0.9758 mg/L		0.00392	0.9758 mg/L	0.00392	0.40%
Fe 238.204†	420.9	4.045 mg/L		0.0359	4.045 mg/L	0.0359	0.89%
K 766.490†	5962.7	3.844 mg/L		0.0674	3.844 mg/L	0.0674	1.75%
Mg 285.213†	35571.6	3.775 mg/L		0.0486	3.775 mg/L	0.0486	1.29%
Mn 257.610†	3043.0	0.5155 mg/L		0.00369	0.5155 mg/L	0.00369	0.72%
Mo 202.031†	11537.9	0.5040 mg/L		0.00128	0.5040 mg/L	0.00128	0.25%
Na 589.592†	24788.3	3.914 mg/L		0.0486	3.914 mg/L	0.0486	1.24%
Ni 231.604†	23719.9	0.5091 mg/L		0.00260	0.5091 mg/L	0.00260	0.51%
Pb 220.353†	3657.5	0.5188 mg/L		0.00222	0.5188 mg/L	0.00222	0.43%
Sb 206.836†	1887.3	0.5093 mg/L		0.00094	0.5093 mg/L	0.00094	0.18%
Se 196.026†	1382.1	0.5267 mg/L		0.00411	0.5267 mg/L	0.00411	0.78%
Sn 189.927†	3513.0	0.5183 mg/L		0.00050	0.5183 mg/L	0.00050	0.10%
Ti 337.279†	8804.2	0.4968 mg/L		0.00808	0.4968 mg/L	0.00808	1.63%
Tl 351.924†	2650.1	0.6215 mg/L		0.00238	0.6215 mg/L	0.00238	0.38%
V 290.880†	42977.9	0.5538 mg/L		0.00250	0.5538 mg/L	0.00250	0.45%
Zn 206.200†	42792.5	1.056 mg/L		0.0033	1.056 mg/L	0.0033	0.31%
Zr 343.823†	248.2	0.0008 mg/L		0.00001	0.0008 mg/L	0.00001	1.51%

Sequence No.: 16

Sample ID: B336661-BSD1

Analyst:

Autosampler Location: 40

Date Collected: 4/11/2023 12:14:27 PM

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336661-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	161014.8	107	%	0.38				0.35%
Y axial	3152530.7	100.0	%	2.43				2.43%
Ag 328.068†	45102.9	0.5293	mg/L	0.01817	0.5293	mg/L	0.01817	3.43%
Al 396.153†	2076.6	0.4691	mg/L	0.00647	0.4691	mg/L	0.00647	1.38%
As 188.979†	926.8	0.4904	mg/L	0.01311	0.4904	mg/L	0.01311	2.67%
B 208.889†	12169.7	0.9794	mg/L	0.02513	0.9794	mg/L	0.02513	2.57%
Ba 233.527†	52505.5	0.5143	mg/L	0.01370	0.5143	mg/L	0.01370	2.66%
Be 313.107†	86720.3	0.5210	mg/L	0.00913	0.5210	mg/L	0.00913	1.75%
Ca 317.933†	18898.8	3.927	mg/L	0.0632	3.927	mg/L	0.0632	1.61%
Cd 228.802†	23572.6	0.5075	mg/L	0.01394	0.5075	mg/L	0.01394	2.75%
Co 228.616†	23689.8	0.5003	mg/L	0.01469	0.5003	mg/L	0.01469	2.94%
Cr 267.716†	37276.5	0.5013	mg/L	0.01343	0.5013	mg/L	0.01343	2.68%
Cu 327.393†	153957.2	0.9758	mg/L	0.02631	0.9758	mg/L	0.02631	2.70%
Fe 238.204†	412.3	3.962	mg/L	0.0203	3.962	mg/L	0.0203	0.51%
K 766.490†	5885.9	3.794	mg/L	0.0458	3.794	mg/L	0.0458	1.21%
Mg 285.213†	35599.3	3.778	mg/L	0.0585	3.778	mg/L	0.0585	1.55%
Mn 257.610†	2962.8	0.5019	mg/L	0.00278	0.5019	mg/L	0.00278	0.55%
Mo 202.031†	11525.4	0.5034	mg/L	0.01341	0.5034	mg/L	0.01341	2.66%
Na 589.592†	24731.1	3.905	mg/L	0.0587	3.905	mg/L	0.0587	1.50%
Ni 231.604†	23778.9	0.5104	mg/L	0.01194	0.5104	mg/L	0.01194	2.34%
Pb 220.353†	3652.1	0.5180	mg/L	0.01439	0.5180	mg/L	0.01439	2.78%
Sb 206.836†	1866.5	0.5036	mg/L	0.01537	0.5036	mg/L	0.01537	3.05%
Se 196.026†	1387.0	0.5286	mg/L	0.01380	0.5286	mg/L	0.01380	2.61%
Sn 189.927†	3506.6	0.5173	mg/L	0.01444	0.5173	mg/L	0.01444	2.79%
Ti 337.279†	8857.4	0.4998	mg/L	0.00698	0.4998	mg/L	0.00698	1.40%
Tl 351.924†	2657.8	0.6232	mg/L	0.01468	0.6232	mg/L	0.01468	2.36%
V 290.880†	43001.0	0.5541	mg/L	0.01415	0.5541	mg/L	0.01415	2.55%
Zn 206.200†	42753.7	1.055	mg/L	0.0281	1.055	mg/L	0.0281	2.67%
Zr 343.823†	154.2	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	15.57%

Sequence No.: 17

Autosampler Location: 41

Sample ID: B336661-MS1

Date Collected: 4/11/2023 12:22:07 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336661-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	154060.6	103	%	1.10				1.07%
Y axial	3017517.8	95.7	%	0.72				0.75%
Ag 328.068†	45560.4	0.5346	mg/L	0.00978	0.5346	mg/L	0.00978	1.83%
Al 396.153†	6512.5	1.503	mg/L	0.0169	1.503	mg/L	0.0169	1.12%
As 188.979†	974.8	0.5158	mg/L	0.00210	0.5158	mg/L	0.00210	0.41%
B 208.889†	12915.1	1.040	mg/L	0.0100	1.040	mg/L	0.0100	0.96%
Ba 233.527†	57220.7	0.5605	mg/L	0.00159	0.5605	mg/L	0.00159	0.28%
Be 313.107†	89822.4	0.5396	mg/L	0.00987	0.5396	mg/L	0.00987	1.83%
Ca 317.933†	205852.9	42.77	mg/L	0.119	42.77	mg/L	0.119	0.28%
Cd 228.802†	24211.2	0.5212	mg/L	0.00232	0.5212	mg/L	0.00232	0.45%
Co 228.616†	23996.5	0.5068	mg/L	0.00104	0.5068	mg/L	0.00104	0.20%
Cr 267.716†	38271.9	0.5145	mg/L	0.00107	0.5145	mg/L	0.00107	0.21%
Cu 327.393†	161764.5	1.025	mg/L	0.0009	1.025	mg/L	0.0009	0.09%
Fe 238.204†	452.3	4.327	mg/L	0.0611	4.327	mg/L	0.0611	1.41%
K 766.490†	12044.7	7.764	mg/L	0.1283	7.764	mg/L	0.1283	1.65%
Mg 285.213†	84326.0	8.946	mg/L	0.1574	8.946	mg/L	0.1574	1.76%
Mn 257.610†	7885.1	1.336	mg/L	0.0297	1.336	mg/L	0.0297	2.23%
Mo 202.031†	11837.5	0.5171	mg/L	0.00547	0.5171	mg/L	0.00547	1.06%
Na 589.592†	466991.3	73.74	mg/L	0.165	73.74	mg/L	0.165	0.22%
Ni 231.604†	24005.6	0.5152	mg/L	0.00228	0.5152	mg/L	0.00228	0.44%

Pb 220.353†	3619.9	0.5138 mg/L	0.00454	0.5138 mg/L	0.00454	0.88%
Sb 206.836†	1961.5	0.5293 mg/L	0.00731	0.5293 mg/L	0.00731	1.38%
Se 196.026†	1429.7	0.5449 mg/L	0.00616	0.5449 mg/L	0.00616	1.13%
Sn 189.927†	3676.4	0.5424 mg/L	0.00656	0.5424 mg/L	0.00656	1.21%
Ti 337.279†	9186.1	0.5183 mg/L	0.01049	0.5183 mg/L	0.01049	2.02%
Tl 351.924†	2625.8	0.6158 mg/L	0.00659	0.6158 mg/L	0.00659	1.07%
V 290.880†	45393.9	0.5830 mg/L	0.00040	0.5830 mg/L	0.00040	0.07%
Zn 206.200†	44047.6	1.087 mg/L	0.0051	1.087 mg/L	0.0051	0.47%
Zr 343.823†	161.2	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.12%

Sequence No.: 18

Sample ID: B336661-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 42

Date Collected: 4/11/2023 12:29:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336661-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155328.2	104 %		1.07			1.03%
Y axial	3058600.6	97.0 %		0.67			0.69%
Ag 328.068†	-0.1	-0.0000 mg/L		0.00019	-0.0000 mg/L	0.00019	>999.9%
Al 396.153†	4226.9	0.9857 mg/L		0.00695	0.9857 mg/L	0.00695	0.71%
As 188.979†	-1.5	-0.0007 mg/L		0.00095	-0.0007 mg/L	0.00095	133.65%
B 208.889†	659.8	0.0545 mg/L		0.00046	0.0545 mg/L	0.00046	0.84%
Ba 233.527†	4060.8	0.0397 mg/L		0.00039	0.0397 mg/L	0.00039	0.98%
Be 313.107†	34.8	0.0002 mg/L		0.00008	0.0002 mg/L	0.00008	52.00%
Ca 317.933†	182811.3	37.98 mg/L		0.014	37.98 mg/L	0.014	0.04%
Cd 228.802†	0.5	0.0000 mg/L		0.00023	0.0000 mg/L	0.00023	>999.9%
Co 228.616†	54.0	0.0011 mg/L		0.00008	0.0011 mg/L	0.00008	6.87%
Cr 267.716†	173.2	0.0022 mg/L		0.00011	0.0022 mg/L	0.00011	5.14%
Cu 327.393†	344.5	0.0022 mg/L		0.00025	0.0022 mg/L	0.00025	11.26%
Fe 238.204†	20.2	0.1759 mg/L		0.00653	0.1759 mg/L	0.00653	3.71%
K 766.490†	5607.6	3.615 mg/L		0.0393	3.615 mg/L	0.0393	1.09%
Mg 285.213†	47014.4	4.987 mg/L		0.0450	4.987 mg/L	0.0450	0.90%
Mn 257.610†	4676.8	0.7923 mg/L		0.01459	0.7923 mg/L	0.01459	1.84%
Mo 202.031†	10.6	0.0005 mg/L		0.00026	0.0005 mg/L	0.00026	55.85%
Na 589.592†	434791.2	68.66 mg/L		0.207	68.66 mg/L	0.207	0.30%
Ni 231.604†	50.2	0.0011 mg/L		0.00012	0.0011 mg/L	0.00012	11.49%
Pb 220.353†	17.8	0.0029 mg/L		0.00180	0.0029 mg/L	0.00180	62.83%
Sb 206.836†	21.8	0.0059 mg/L		0.00261	0.0059 mg/L	0.00261	44.56%
Se 196.026†	1.7	0.0006 mg/L		0.00272	0.0006 mg/L	0.00272	435.04%
Sn 189.927†	100.7	0.0148 mg/L		0.00106	0.0148 mg/L	0.00106	7.13%
Ti 337.279†	48.2	0.0027 mg/L		0.00037	0.0027 mg/L	0.00037	13.49%
Tl 351.924†	-7.6	-0.0017 mg/L		0.00290	-0.0017 mg/L	0.00290	171.01%
V 290.880†	1221.1	0.0138 mg/L		0.00024	0.0138 mg/L	0.00024	1.77%
Zn 206.200†	320.2	0.0072 mg/L		0.00014	0.0072 mg/L	0.00014	1.99%
Zr 343.823†	123.1	0.0004 mg/L		0.00003	0.0004 mg/L	0.00003	7.06%

Sequence No.: 19

Sample ID: 23D0190-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 43

Date Collected: 4/11/2023 12:35:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23D0190-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156720.6	105 %		0.33			0.31%
Y axial	3050998.9	96.8 %		0.48			0.49%
Ag 328.068†	17.6	0.0002 mg/L		0.00062	0.0002 mg/L	0.00062	296.34%
Al 396.153†	4249.4	0.9909 mg/L		0.01630	0.9909 mg/L	0.01630	1.65%
As 188.979†	-2.1	-0.0010 mg/L		0.00062	-0.0010 mg/L	0.00062	60.01%
B 208.889†	593.6	0.0491 mg/L		0.00070	0.0491 mg/L	0.00070	1.42%

Ba 233.527†	4108.0	0.0402 mg/L	0.00030	0.0402 mg/L	0.00030	0.74%
Be 313.107†	23.1	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	33.46%
Ca 317.933†	185340.6	38.51 mg/L	0.109	38.51 mg/L	0.109	0.28%
Cd 228.802†	-0.8	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	>999.9%
Co 228.616†	57.0	0.0012 mg/L	0.00012	0.0012 mg/L	0.00012	9.97%
Cr 267.716†	157.9	0.0020 mg/L	0.00024	0.0020 mg/L	0.00024	12.09%
Cu 327.393†	323.4	0.0021 mg/L	0.00038	0.0021 mg/L	0.00038	18.45%
Fe 238.204†	22.8	0.2004 mg/L	0.01605	0.2004 mg/L	0.01605	8.01%
K 766.490†	5687.4	3.666 mg/L	0.0787	3.666 mg/L	0.0787	2.15%
Mg 285.213†	47267.7	5.014 mg/L	0.0725	5.014 mg/L	0.0725	1.45%
Mn 257.610†	4717.6	0.7992 mg/L	0.01397	0.7992 mg/L	0.01397	1.75%
Mo 202.031†	5.3	0.0002 mg/L	0.00023	0.0002 mg/L	0.00023	99.56%
Na 589.592†	440215.0	69.52 mg/L	0.033	69.52 mg/L	0.033	0.05%
Ni 231.604†	39.1	0.0008 mg/L	0.00021	0.0008 mg/L	0.00021	25.01%
Pb 220.353†	7.8	0.0015 mg/L	0.00203	0.0015 mg/L	0.00203	139.71%
Sb 206.836†	19.2	0.0052 mg/L	0.00200	0.0052 mg/L	0.00200	38.71%
Se 196.026†	-3.5	-0.0013 mg/L	0.00223	-0.0013 mg/L	0.00223	165.44%
Sn 189.927†	87.2	0.0128 mg/L	0.00238	0.0128 mg/L	0.00238	18.59%
Ti 337.279†	46.2	0.0026 mg/L	0.00058	0.0026 mg/L	0.00058	22.42%
Tl 351.924†	8.0	0.0020 mg/L	0.00204	0.0020 mg/L	0.00204	103.59%
V 290.880†	1272.8	0.0144 mg/L	0.00070	0.0144 mg/L	0.00070	4.87%
Zn 206.200†	237.3	0.0051 mg/L	0.00016	0.0051 mg/L	0.00016	3.02%
Zr 343.823†	123.5	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	27.05%

User canceled analysis.

Sequence No.: 1
 Sample ID: SEQ-ICV @2211094
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):
 User canceled analysis.

Autosampler Location: 8
 Date Collected: 4/11/2023 12:53:56 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sequence No.: 20
 Sample ID: B336693-BLK1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):

Autosampler Location: 44
 Date Collected: 4/11/2023 12:54:26 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336693-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153573.8	102 %		0.72			0.70%
Y axial	3156161.6	100 %		0.56			0.56%
Ag 328.068†	9.9	0.0001 mg/L		0.00080	0.0001 mg/L	0.00080	694.29%
Al 396.153†	204.8	0.0477 mg/L		0.04583	0.0477 mg/L	0.04583	96.03%
As 188.979†	-7.4	-0.0038 mg/L		0.00110	-0.0038 mg/L	0.00110	28.59%
B 208.889†	238.7	0.0197 mg/L		0.00015	0.0197 mg/L	0.00015	0.77%
Ba 233.527†	57.8	0.0006 mg/L		0.00026	0.0006 mg/L	0.00026	45.22%
Be 313.107†	63.2	0.0004 mg/L		0.00016	0.0004 mg/L	0.00016	42.32%
Ca 317.933†	532.6	0.1107 mg/L		0.05206	0.1107 mg/L	0.05206	47.04%
Cd 228.802†	10.9	0.0003 mg/L		0.00005	0.0003 mg/L	0.00005	18.40%
Co 228.616†	-22.7	-0.0005 mg/L		0.00016	-0.0005 mg/L	0.00016	33.21%
Cr 267.716†	206.0	0.0028 mg/L		0.00012	0.0028 mg/L	0.00012	4.18%
Cu 327.393†	3035.7	0.0192 mg/L		0.00213	0.0192 mg/L	0.00213	11.09%
Fe 238.204†	21.7	0.2089 mg/L		0.14687	0.2089 mg/L	0.14687	70.31%
K 766.490†	18.4	0.0118 mg/L		0.03147	0.0118 mg/L	0.03147	265.67%
Mg 285.213†	235.4	0.0250 mg/L		0.01559	0.0250 mg/L	0.01559	62.28%
Mn 257.610†	28.4	0.0048 mg/L		0.00118	0.0048 mg/L	0.00118	24.56%
Mo 202.031†	14.2	0.0006 mg/L		0.00027	0.0006 mg/L	0.00027	43.53%
Na 589.592†	374.4	0.0591 mg/L		0.01021	0.0591 mg/L	0.01021	17.27%
Ni 231.604†	36.6	0.0008 mg/L		0.00042	0.0008 mg/L	0.00042	53.86%
Pb 220.353†	56.9	0.0080 mg/L		0.00181	0.0080 mg/L	0.00181	22.46%
Sb 206.836†	24.7	0.0067 mg/L		0.00190	0.0067 mg/L	0.00190	28.25%
Se 196.026†	4.0	0.0015 mg/L		0.00098	0.0015 mg/L	0.00098	64.85%
Sn 189.927†	272.0	0.0399 mg/L		0.00072	0.0399 mg/L	0.00072	1.79%
Ti 337.279†	75.5	0.0043 mg/L		0.00253	0.0043 mg/L	0.00253	59.40%
Tl 351.924†	29.3	0.0070 mg/L		0.01308	0.0070 mg/L	0.01308	186.63%
V 290.880†	341.1	0.0043 mg/L		0.00016	0.0043 mg/L	0.00016	3.66%
Zn 206.200†	320.0	0.0079 mg/L		0.00073	0.0079 mg/L	0.00073	9.28%
Zr 343.823†	100.7	0.0004 mg/L		0.00006	0.0004 mg/L	0.00006	16.62%

Sequence No.: 21
 Sample ID: B336693-MRL3
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 220

Autosampler Location: 45
 Date Collected: 4/11/2023 1:02:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336693-MRL3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155211.5	104 %		1.83			1.77%
Y axial	3145595.0	99.8 %		1.02			1.02%
Ag 328.068†	851.6	0.0100 mg/L		0.00058	0.0100 mg/L	0.00058	5.81%
Al 396.153†	2154.0	0.4992 mg/L		0.00688	0.4992 mg/L	0.00688	1.38%
As 188.979†	165.9	0.0871 mg/L		0.00047	0.0871 mg/L	0.00047	0.54%
B 208.889†	1246.5	0.0976 mg/L		0.00136	0.0976 mg/L	0.00136	1.39%

Ba 233.527†	5168.8	0.0506 mg/L	0.00038	0.0506 mg/L	0.00038	0.75%
Be 313.107†	801.4	0.0048 mg/L	0.00033	0.0048 mg/L	0.00033	6.89%
Ca 317.933†	2479.1	0.5151 mg/L	0.01505	0.5151 mg/L	0.01505	2.92%
Cd 228.802†	443.5	0.0093 mg/L	0.00019	0.0093 mg/L	0.00019	2.03%
Co 228.616†	2252.2	0.0476 mg/L	0.00041	0.0476 mg/L	0.00041	0.87%
Cr 267.716†	1672.1	0.0225 mg/L	0.00047	0.0225 mg/L	0.00047	2.11%
Cu 327.393†	4630.0	0.0295 mg/L	0.00017	0.0295 mg/L	0.00017	0.59%
Fe 238.204†	57.3	0.5496 mg/L	0.05762	0.5496 mg/L	0.05762	10.48%
K 766.490†	7381.6	4.758 mg/L	0.1359	4.758 mg/L	0.1359	2.86%
Mg 285.213†	4549.2	0.4827 mg/L	0.01316	0.4827 mg/L	0.01316	2.73%
Mn 257.610†	68.4	0.0116 mg/L	0.00048	0.0116 mg/L	0.00048	4.18%
Mo 202.031†	2371.0	0.1036 mg/L	0.00107	0.1036 mg/L	0.00107	1.03%
Na 589.592†	31282.1	4.940 mg/L	0.1510	4.940 mg/L	0.1510	3.06%
Ni 231.604†	881.4	0.0189 mg/L	0.00022	0.0189 mg/L	0.00022	1.16%
Pb 220.353†	142.2	0.0205 mg/L	0.00126	0.0205 mg/L	0.00126	6.14%
Sb 206.836†	181.8	0.0492 mg/L	0.00069	0.0492 mg/L	0.00069	1.40%
Se 196.026†	232.1	0.0885 mg/L	0.00081	0.0885 mg/L	0.00081	0.91%
Sn 189.927†	929.2	0.1369 mg/L	0.00174	0.1369 mg/L	0.00174	1.27%
Ti 337.279†	1812.4	0.1023 mg/L	0.00454	0.1023 mg/L	0.00454	4.44%
Tl 351.924†	263.0	0.0616 mg/L	0.00936	0.0616 mg/L	0.00936	15.19%
V 290.880†	2128.2	0.0293 mg/L	0.00108	0.0293 mg/L	0.00108	3.68%
Zn 206.200†	954.4	0.0236 mg/L	0.00091	0.0236 mg/L	0.00091	3.87%
Zr 343.823†	165.5	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	20.51%

Sequence No.: 22

Sample ID: B336693-MRL4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 46

Date Collected: 4/11/2023 1:09:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336693-MRL4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150601.5	100	%	1.28			1.28%
Y axial	3045454.4	96.6	%	1.13			1.17%
Ag 328.068†	872.6	0.0102 mg/L		0.00067	0.0102 mg/L	0.00067	6.53%
Al 396.153†	2211.2	0.5124 mg/L		0.00395	0.5124 mg/L	0.00395	0.77%
As 188.979†	164.5	0.0863 mg/L		0.00410	0.0863 mg/L	0.00410	4.75%
B 208.889†	1269.4	0.0993 mg/L		0.00121	0.0993 mg/L	0.00121	1.22%
Ba 233.527†	5293.1	0.0518 mg/L		0.00047	0.0518 mg/L	0.00047	0.90%
Be 313.107†	876.7	0.0052 mg/L		0.00019	0.0052 mg/L	0.00019	3.74%
Ca 317.933†	2540.6	0.5279 mg/L		0.00783	0.5279 mg/L	0.00783	1.48%
Cd 228.802†	456.8	0.0096 mg/L		0.00003	0.0096 mg/L	0.00003	0.36%
Co 228.616†	2302.7	0.0486 mg/L		0.00027	0.0486 mg/L	0.00027	0.56%
Cr 267.716†	1695.4	0.0228 mg/L		0.00031	0.0228 mg/L	0.00031	1.37%
Cu 327.393†	4430.7	0.0282 mg/L		0.00036	0.0282 mg/L	0.00036	1.27%
Fe 238.204†	55.6	0.5330 mg/L		0.01596	0.5330 mg/L	0.01596	2.99%
K 766.490†	7719.6	4.976 mg/L		0.0306	4.976 mg/L	0.0306	0.62%
Mg 285.213†	4749.2	0.5039 mg/L		0.00399	0.5039 mg/L	0.00399	0.79%
Mn 257.610†	69.8	0.0118 mg/L		0.00068	0.0118 mg/L	0.00068	5.72%
Mo 202.031†	2441.4	0.1066 mg/L		0.00079	0.1066 mg/L	0.00079	0.75%
Na 589.592†	32556.6	5.141 mg/L		0.0087	5.141 mg/L	0.0087	0.17%
Ni 231.604†	911.0	0.0195 mg/L		0.00009	0.0195 mg/L	0.00009	0.44%
Pb 220.353†	148.7	0.0214 mg/L		0.00046	0.0214 mg/L	0.00046	2.15%
Sb 206.836†	195.5	0.0529 mg/L		0.00111	0.0529 mg/L	0.00111	2.09%
Se 196.026†	228.4	0.0871 mg/L		0.00149	0.0871 mg/L	0.00149	1.71%
Sn 189.927†	963.6	0.1420 mg/L		0.00193	0.1420 mg/L	0.00193	1.36%
Ti 337.279†	1865.1	0.1052 mg/L		0.00075	0.1052 mg/L	0.00075	0.71%
Tl 351.924†	264.3	0.0619 mg/L		0.00667	0.0619 mg/L	0.00667	10.77%
V 290.880†	2139.3	0.0296 mg/L		0.00067	0.0296 mg/L	0.00067	2.28%
Zn 206.200†	942.8	0.0233 mg/L		0.00035	0.0233 mg/L	0.00035	1.52%
Zr 343.823†	149.7	0.0005 mg/L		0.00018	0.0005 mg/L	0.00018	34.18%

Sequence No.: 23

Sample ID: SEQ-IFA @2211113

Analyst:

Autosampler Location: 11

Date Collected: 4/11/2023 1:17:31 PM

Data Type: Original

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

User canceled analysis.

Initial Sample Vol:

Sample Prep Vol:

Sequence No.: 1
 Sample ID: SEQ-ICV @2211094
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):
 User canceled analysis.

Autosampler Location: 8
 Date Collected: 4/11/2023 1:28:42 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sequence No.: 23
 Sample ID: RINSE
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):

Autosampler Location: 7
 Date Collected: 4/11/2023 1:29:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151569.3	101 %		1.15			1.14%
Y axial	3181034.7	101 %		1.46			1.45%
Ag 328.068†	-6.6	-0.0001 mg/L		0.00122	-0.0001 mg/L	0.00122	>999.9%
Al 396.153†	41.8	0.0097 mg/L		0.00715	0.0097 mg/L	0.00715	73.38%
As 188.979†	-2.5	-0.0013 mg/L		0.00138	-0.0013 mg/L	0.00138	107.45%
B 208.889†	59.3	0.0049 mg/L		0.00052	0.0049 mg/L	0.00052	10.59%
Ba 233.527†	-20.1	-0.0002 mg/L		0.00004	-0.0002 mg/L	0.00004	22.53%
Be 313.107†	-19.4	-0.0001 mg/L		0.00009	-0.0001 mg/L	0.00009	71.67%
Ca 317.933†	35.9	0.0075 mg/L		0.00133	0.0075 mg/L	0.00133	17.83%
Cd 228.802†	-6.7	-0.0001 mg/L		0.00012	-0.0001 mg/L	0.00012	82.83%
Co 228.616†	-24.9	-0.0005 mg/L		0.00018	-0.0005 mg/L	0.00018	33.93%
Cr 267.716†	53.4	0.0007 mg/L		0.00008	0.0007 mg/L	0.00008	11.76%
Cu 327.393†	216.1	0.0014 mg/L		0.00029	0.0014 mg/L	0.00029	21.04%
Fe 238.204†	1.3	0.0124 mg/L		0.02362	0.0124 mg/L	0.02362	190.09%
K 766.490†	-78.9	-0.0509 mg/L		0.01981	-0.0509 mg/L	0.01981	38.94%
Mg 285.213†	34.8	0.0037 mg/L		0.00038	0.0037 mg/L	0.00038	10.37%
Mn 257.610†	-0.3	-0.0001 mg/L		0.00050	-0.0001 mg/L	0.00050	990.54%
Mo 202.031†	6.7	0.0003 mg/L		0.00007	0.0003 mg/L	0.00007	22.39%
Na 589.592†	129.2	0.0204 mg/L		0.00082	0.0204 mg/L	0.00082	4.00%
Ni 231.604†	-26.8	-0.0006 mg/L		0.00010	-0.0006 mg/L	0.00010	16.91%
Pb 220.353†	25.1	0.0036 mg/L		0.00131	0.0036 mg/L	0.00131	36.74%
Sb 206.836†	14.9	0.0041 mg/L		0.00077	0.0041 mg/L	0.00077	18.89%
Se 196.026†	-4.3	-0.0016 mg/L		0.00241	-0.0016 mg/L	0.00241	146.68%
Sn 189.927†	8.3	0.0012 mg/L		0.00175	0.0012 mg/L	0.00175	144.21%
Ti 337.279†	3.5	0.0002 mg/L		0.00029	0.0002 mg/L	0.00029	149.79%
Tl 351.924†	46.7	0.0110 mg/L		0.01095	0.0110 mg/L	0.01095	99.69%
V 290.880†	126.1	0.0016 mg/L		0.00021	0.0016 mg/L	0.00021	13.30%
Zn 206.200†	26.3	0.0007 mg/L		0.00013	0.0007 mg/L	0.00013	19.52%
Zr 343.823†	73.8	0.0003 mg/L		0.00018	0.0003 mg/L	0.00018	68.43%

Sequence No.: 24
 Sample ID: B336578-BLK1
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 110

Autosampler Location: 47
 Date Collected: 4/11/2023 1:34:44 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336578-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	152245.8	102 %		0.99			0.97%
Y axial	3211196.4	102 %		0.52			0.51%
Ag 328.068†	0.6	0.0000 mg/L		0.00022	0.0000 mg/L	0.00022	>999.9%
Al 396.153†	29.0	0.0068 mg/L		0.00194	0.0068 mg/L	0.00194	28.69%
As 188.979†	-1.9	-0.0010 mg/L		0.00026	-0.0010 mg/L	0.00026	27.03%
B 208.889†	31.3	0.0026 mg/L		0.00067	0.0026 mg/L	0.00067	25.93%

Ba	233.527†	-9.0	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	188.42%
Be	313.107†	-23.2	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	78.49%
Ca	317.933†	52.5	0.0109	mg/L	0.00148	0.0109	mg/L	0.00148	13.55%
Cd	228.802†	-10.2	-0.0002	mg/L	0.00011	-0.0002	mg/L	0.00011	49.01%
Co	228.616†	-12.1	-0.0003	mg/L	0.00019	-0.0003	mg/L	0.00019	74.14%
Cr	267.716†	1.9	0.0000	mg/L	0.00020	0.0000	mg/L	0.00020	740.51%
Cu	327.393†	54.2	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	28.64%
Fe	238.204†	0.3	0.0033	mg/L	0.02084	0.0033	mg/L	0.02084	629.07%
K	766.490†	-0.8	-0.0005	mg/L	0.01131	-0.0005	mg/L	0.01131	>999.9%
Mg	285.213†	33.4	0.0035	mg/L	0.00109	0.0035	mg/L	0.00109	30.98%
Mn	257.610†	-0.4	-0.0001	mg/L	0.00051	-0.0001	mg/L	0.00051	815.96%
Mo	202.031†	3.2	0.0001	mg/L	0.00035	0.0001	mg/L	0.00035	256.26%
Na	589.592†	77.0	0.0122	mg/L	0.00664	0.0122	mg/L	0.00664	54.67%
Ni	231.604†	-25.7	-0.0006	mg/L	0.00032	-0.0006	mg/L	0.00032	56.94%
Pb	220.353†	15.6	0.0022	mg/L	0.00040	0.0022	mg/L	0.00040	18.28%
Sb	206.836†	3.6	0.0010	mg/L	0.00062	0.0010	mg/L	0.00062	62.22%
Se	196.026†	-11.1	-0.0042	mg/L	0.00223	-0.0042	mg/L	0.00223	52.64%
Sn	189.927†	-4.8	-0.0007	mg/L	0.00084	-0.0007	mg/L	0.00084	119.58%
Ti	337.279†	3.0	0.0002	mg/L	0.00031	0.0002	mg/L	0.00031	180.90%
Tl	351.924†	5.2	0.0012	mg/L	0.01071	0.0012	mg/L	0.01071	879.69%
V	290.880†	81.4	0.0010	mg/L	0.00015	0.0010	mg/L	0.00015	14.15%
Zn	206.200†	54.8	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009	6.49%
Zr	343.823†	85.4	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	15.92%

Sequence No.: 25

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 5

Date Collected: 4/11/2023 1:40:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte		Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial		152372.3	102 %	0.72			0.71%
Y axial		3114633.0	98.8 %	0.96			0.97%
Ag 328.068†		180555.2	2.101 mg/L	0.0742	2.101 mg/L	0.0742	3.53%
	QC value	less than the lower limit for Ag 328.068		Recovery = 84.04%			
Al 396.153†		42222.5	9.649 mg/L	0.0076	9.649 mg/L	0.0076	0.08%
	QC value	within limits for Al 396.153		Recovery = 96.49%			
As 188.979†		9497.8	5.021 mg/L	0.1502	5.021 mg/L	0.1502	2.99%
	QC value	within limits for As 188.979		Recovery = 100.42%			
B 208.889†		58727.8	4.589 mg/L	0.1325	4.589 mg/L	0.1325	2.89%
	QC value	within limits for B 208.889		Recovery = 91.78%			
Ba 233.527†		522709.3	5.120 mg/L	0.0081	5.120 mg/L	0.0081	0.16%
	QC value	within limits for Ba 233.527		Recovery = 102.40%			
Be 313.107†		825909.7	4.965 mg/L	0.0102	4.965 mg/L	0.0102	0.21%
	QC value	within limits for Be 313.107		Recovery = 99.31%			
Ca 317.933†		48101.3	9.994 mg/L	0.0178	9.994 mg/L	0.0178	0.18%
	QC value	within limits for Ca 317.933		Recovery = 99.94%			
Cd 228.802†		235102.4	5.061 mg/L	0.0129	5.061 mg/L	0.0129	0.26%
	QC value	within limits for Cd 228.802		Recovery = 101.22%			
Co 228.616†		237312.1	5.012 mg/L	0.0108	5.012 mg/L	0.0108	0.21%
	QC value	within limits for Co 228.616		Recovery = 100.24%			
Cr 267.716†		376991.3	5.070 mg/L	0.0058	5.070 mg/L	0.0058	0.11%
	QC value	within limits for Cr 267.716		Recovery = 101.39%			
Cu 327.393†		782533.2	4.973 mg/L	0.0118	4.973 mg/L	0.0118	0.24%
	QC value	within limits for Cu 327.393		Recovery = 99.45%			
Fe 238.204†		487.0	4.701 mg/L	0.0559	4.701 mg/L	0.0559	1.19%
	QC value	within limits for Fe 238.204		Recovery = 94.01%			
K 766.490†		15553.1	10.03 mg/L	0.061	10.03 mg/L	0.061	0.61%
	QC value	within limits for K 766.490		Recovery = 100.26%			
Mg 285.213†		94704.5	9.938 mg/L	0.0263	9.938 mg/L	0.0263	0.27%
	QC value	within limits for Mg 285.213		Recovery = 99.38%			
Mn 257.610†		29601.2	5.015 mg/L	0.0087	5.015 mg/L	0.0087	0.17%
	QC value	within limits for Mn 257.610		Recovery = 100.30%			
Mo 202.031†		115605.9	5.050 mg/L	0.0092	5.050 mg/L	0.0092	0.18%
	QC value	within limits for Mo 202.031		Recovery = 100.99%			

Na 589.592†	63690.2	10.06 mg/L	0.027	10.06 mg/L	0.027	0.27%
QC value within limits for Na 589.592	Recovery = 100.58%					
Ni 231.604†	235981.0	5.067 mg/L	0.0114	5.067 mg/L	0.0114	0.22%
QC value within limits for Ni 231.604	Recovery = 101.34%					
Pb 220.353†	35501.2	5.042 mg/L	0.1230	5.042 mg/L	0.1230	2.44%
QC value within limits for Pb 220.353	Recovery = 100.83%					
Sb 206.836†	18238.8	4.919 mg/L	0.1316	4.919 mg/L	0.1316	2.68%
QC value within limits for Sb 206.836	Recovery = 98.38%					
Se 196.026†	12988.5	4.950 mg/L	0.1378	4.950 mg/L	0.1378	2.78%
QC value within limits for Se 196.026	Recovery = 98.99%					
Sn 189.927†	34709.1	5.121 mg/L	0.1453	5.121 mg/L	0.1453	2.84%
QC value within limits for Sn 189.927	Recovery = 102.42%					
Ti 337.279†	87901.6	4.957 mg/L	0.0062	4.957 mg/L	0.0062	0.12%
QC value within limits for Ti 337.279	Recovery = 99.14%					
Tl 351.924†	13624.3	3.169 mg/L	0.0830	3.169 mg/L	0.0830	2.62%
QC value greater than the upper limit for Tl 351.924	Recovery = 126.75%					
V 290.880†	419742.9	5.425 mg/L	0.0042	5.425 mg/L	0.0042	0.08%
QC value within limits for V 290.880	Recovery = 108.50%					
Zn 206.200†	214341.0	5.303 mg/L	0.0094	5.303 mg/L	0.0094	0.18%
QC value within limits for Zn 206.200	Recovery = 106.06%					
Zr 343.823†	1420828.8	5.065 mg/L	0.0062	5.065 mg/L	0.0062	0.12%
QC Failed. Continue with analysis.						

Sequence No.: 26

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 1:47:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150615.8	100 %	1.30			1.30%
Y axial	3249401.2	103 %	1.45			1.41%
Ag 328.068†	407.2	0.0048 mg/L	0.00107	0.0048 mg/L	0.00107	22.41%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	16.5	0.0038 mg/L	0.00388	0.0038 mg/L	0.00388	101.57%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	-2.9	-0.0015 mg/L	0.00179	-0.0015 mg/L	0.00179	118.26%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	238.5	0.0197 mg/L	0.00118	0.0197 mg/L	0.00118	6.03%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	15.7	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	71.31%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	67.9	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	27.29%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	21.5	0.0045 mg/L	0.00288	0.0045 mg/L	0.00288	64.45%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	3.7	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	106.28%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	11.8	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	40.72%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	29.6	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	12.70%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	148.4	0.0009 mg/L	0.00025	0.0009 mg/L	0.00025	27.07%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	1.4	0.0132 mg/L	0.00948	0.0132 mg/L	0.00948	71.60%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	21.6	0.0140 mg/L	0.03056	0.0140 mg/L	0.03056	219.00%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	16.5	0.0018 mg/L	0.00073	0.0018 mg/L	0.00073	41.69%
QC value within limits for Mg 285.213	Recovery = Not calculated					
Mn 257.610†	3.7	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	10.10%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	20.2	0.0009 mg/L	0.00015	0.0009 mg/L	0.00015	16.88%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592†	54.7	0.0086 mg/L	0.00784	0.0086 mg/L	0.00784	90.80%

QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† 5.7 0.0001 mg/L 0.00034 0.0001 mg/L 0.00034 286.09%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 19.9 0.0028 mg/L 0.00234 0.0028 mg/L 0.00234 83.15%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 4.6 0.0012 mg/L 0.00366 0.0012 mg/L 0.00366 292.92%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 3.5 0.0013 mg/L 0.00310 0.0013 mg/L 0.00310 233.00%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 0.1 0.0000 mg/L 0.00027 0.0000 mg/L 0.00027 >999.9%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 5.5 0.0003 mg/L 0.00029 0.0003 mg/L 0.00029 91.60%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 35.9 0.0084 mg/L 0.01539 0.0084 mg/L 0.01539 182.55%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† 68.0 0.0009 mg/L 0.00009 0.0009 mg/L 0.00009 10.21%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 52.3 0.0013 mg/L 0.00006 0.0013 mg/L 0.00006 4.53%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 71.5 0.0003 mg/L 0.00005 0.0003 mg/L 0.00005 19.44%
 All analyte(s) passed QC.

Sequence No.: 27

Sample ID: B336578-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 48

Date Collected: 4/11/2023 1:53:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336578-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155728.2	104	%	1.28			1.23%
Y axial	3236928.4	103	%	0.60			0.58%
Ag 328.068†	31222.1	0.3664	mg/L	0.00299	0.3664 mg/L	0.00299	0.82%
Al 396.153†	2101.2	0.4749	mg/L	0.00529	0.4749 mg/L	0.00529	1.11%
As 188.979†	910.4	0.4818	mg/L	0.00667	0.4818 mg/L	0.00667	1.38%
B 208.889†	11713.3	0.9419	mg/L	0.00802	0.9419 mg/L	0.00802	0.85%
Ba 233.527†	52511.5	0.5143	mg/L	0.00427	0.5143 mg/L	0.00427	0.83%
Be 313.107†	82635.5	0.4964	mg/L	0.00186	0.4964 mg/L	0.00186	0.37%
Ca 317.933†	18636.5	3.872	mg/L	0.0132	3.872 mg/L	0.0132	0.34%
Cd 228.802†	23560.3	0.5073	mg/L	0.00336	0.5073 mg/L	0.00336	0.66%
Co 228.616†	23673.0	0.5000	mg/L	0.00473	0.5000 mg/L	0.00473	0.95%
Cr 267.716†	37479.0	0.5040	mg/L	0.00423	0.5040 mg/L	0.00423	0.84%
Cu 327.393†	150541.8	0.9542	mg/L	0.00786	0.9542 mg/L	0.00786	0.82%
Fe 238.204†	385.5	3.704	mg/L	0.0353	3.704 mg/L	0.0353	0.95%
K 766.490†	5949.1	3.835	mg/L	0.0329	3.835 mg/L	0.0329	0.86%
Mg 285.213†	35616.6	3.779	mg/L	0.0196	3.779 mg/L	0.0196	0.52%
Mn 257.610†	2900.9	0.4914	mg/L	0.00551	0.4914 mg/L	0.00551	1.12%
Mo 202.031†	11437.7	0.4996	mg/L	0.00387	0.4996 mg/L	0.00387	0.77%
Na 589.592†	24840.1	3.923	mg/L	0.0315	3.923 mg/L	0.0315	0.80%
Ni 231.604†	23793.2	0.5107	mg/L	0.00474	0.5107 mg/L	0.00474	0.93%
Pb 220.353†	3631.5	0.5151	mg/L	0.00292	0.5151 mg/L	0.00292	0.57%
Sb 206.836†	1824.0	0.4918	mg/L	0.00349	0.4918 mg/L	0.00349	0.71%
Se 196.026†	1337.5	0.5097	mg/L	0.00426	0.5097 mg/L	0.00426	0.84%
Sn 189.927†	3509.7	0.5177	mg/L	0.00420	0.5177 mg/L	0.00420	0.81%
Ti 337.279†	8675.7	0.4895	mg/L	0.00295	0.4895 mg/L	0.00295	0.60%
Tl 351.924†	2631.7	0.6170	mg/L	0.00527	0.6170 mg/L	0.00527	0.85%
V 290.880†	42239.3	0.5444	mg/L	0.00382	0.5444 mg/L	0.00382	0.70%
Zn 206.200†	43169.9	1.066	mg/L	0.0067	1.066 mg/L	0.0067	0.62%
Zr 343.823†	297.2	0.0010	mg/L	0.00005	0.0010 mg/L	0.00005	5.22%

Sequence No.: 28

Sample ID: B336578-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 4/11/2023 2:00:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336578-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156931.9	105 %		1.62			1.54%
Y axial	3392114.1	108 %		1.04			0.97%
Ag 328.068†	31631.0	0.3712 mg/L		0.01329	0.3712 mg/L	0.01329	3.58%
Al 396.153†	2055.4	0.4650 mg/L		0.00164	0.4650 mg/L	0.00164	0.35%
As 188.979†	865.5	0.4581 mg/L		0.00570	0.4581 mg/L	0.00570	1.24%
B 208.889†	11152.4	0.8969 mg/L		0.01104	0.8969 mg/L	0.01104	1.23%
Ba 233.527†	49695.0	0.4867 mg/L		0.01086	0.4867 mg/L	0.01086	2.23%
Be 313.107†	79966.9	0.4804 mg/L		0.00577	0.4804 mg/L	0.00577	1.20%
Ca 317.933†	17979.9	3.736 mg/L		0.0529	3.736 mg/L	0.0529	1.42%
Cd 228.802†	22281.6	0.4798 mg/L		0.01076	0.4798 mg/L	0.01076	2.24%
Co 228.616†	22426.4	0.4736 mg/L		0.00834	0.4736 mg/L	0.00834	1.76%
Cr 267.716†	35470.5	0.4770 mg/L		0.00909	0.4770 mg/L	0.00909	1.91%
Cu 327.393†	142791.5	0.9050 mg/L		0.01814	0.9050 mg/L	0.01814	2.00%
Fe 238.204†	385.9	3.708 mg/L		0.0697	3.708 mg/L	0.0697	1.88%
K 766.490†	5750.2	3.707 mg/L		0.0655	3.707 mg/L	0.0655	1.77%
Mg 285.213†	34457.3	3.656 mg/L		0.0461	3.656 mg/L	0.0461	1.26%
Mn 257.610†	2864.6	0.4853 mg/L		0.00786	0.4853 mg/L	0.00786	1.62%
Mo 202.031†	10864.0	0.4745 mg/L		0.00548	0.4745 mg/L	0.00548	1.15%
Na 589.592†	24060.8	3.800 mg/L		0.0387	3.800 mg/L	0.0387	1.02%
Ni 231.604†	22453.8	0.4819 mg/L		0.00871	0.4819 mg/L	0.00871	1.81%
Pb 220.353†	3441.8	0.4882 mg/L		0.00547	0.4882 mg/L	0.00547	1.12%
Sb 206.836†	1725.2	0.4651 mg/L		0.00653	0.4651 mg/L	0.00653	1.40%
Se 196.026†	1262.4	0.4811 mg/L		0.00798	0.4811 mg/L	0.00798	1.66%
Sn 189.927†	3314.8	0.4891 mg/L		0.00572	0.4891 mg/L	0.00572	1.17%
Ti 337.279†	8401.6	0.4740 mg/L		0.00724	0.4740 mg/L	0.00724	1.53%
Tl 351.924†	2505.8	0.5876 mg/L		0.01046	0.5876 mg/L	0.01046	1.78%
V 290.880†	39550.3	0.5099 mg/L		0.01127	0.5099 mg/L	0.01127	2.21%
Zn 206.200†	40553.4	1.001 mg/L		0.0203	1.001 mg/L	0.0203	2.03%
Zr 343.823†	121.0	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	18.59%

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Sequence No.: 29

Sample ID: B336578-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 50

Date Collected: 4/11/2023 2:08:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336578-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151555.3	101 %		0.54			0.54%
Y axial	3108566.5	98.6 %		0.81			0.82%
Ag 328.068†	32173.6	0.3776 mg/L		0.00951	0.3776 mg/L	0.00951	2.52%
Al 396.153†	2207.5	0.4996 mg/L		0.00601	0.4996 mg/L	0.00601	1.20%
As 188.979†	941.3	0.4983 mg/L		0.00388	0.4983 mg/L	0.00388	0.78%
B 208.889†	29247.7	2.391 mg/L		0.0054	2.391 mg/L	0.0054	0.22%
Ba 233.527†	61993.2	0.6071 mg/L		0.00206	0.6071 mg/L	0.00206	0.34%
Be 313.107†	82494.2	0.4956 mg/L		0.00200	0.4956 mg/L	0.00200	0.40%
Ca 317.933†	87521.7	18.18 mg/L		0.057	18.18 mg/L	0.057	0.31%
Cd 228.802†	23863.9	0.5137 mg/L		0.00124	0.5137 mg/L	0.00124	0.24%
Co 228.616†	23184.4	0.4896 mg/L		0.00193	0.4896 mg/L	0.00193	0.39%
Cr 267.716†	39279.3	0.5282 mg/L		0.00133	0.5282 mg/L	0.00133	0.25%
Cu 327.393†	167886.5	1.064 mg/L		0.0033	1.064 mg/L	0.0033	0.31%
Fe 238.204†	400.5	3.816 mg/L		0.0228	3.816 mg/L	0.0228	0.60%
K 766.490†	17841.3	11.50 mg/L		0.018	11.50 mg/L	0.018	0.16%
Mg 285.213†	41409.0	4.394 mg/L		0.0302	4.394 mg/L	0.0302	0.69%
Mn 257.610†	2944.4	0.4988 mg/L		0.00211	0.4988 mg/L	0.00211	0.42%
Mo 202.031†	11501.1	0.5024 mg/L		0.00355	0.5024 mg/L	0.00355	0.71%
Na 589.592†	2072645.1	327.3 mg/L		0.78	327.3 mg/L	0.78	0.24%
Ni 231.604†	24715.4	0.5305 mg/L		0.00265	0.5305 mg/L	0.00265	0.50%
Pb 220.353†	3482.4	0.4941 mg/L		0.00266	0.4941 mg/L	0.00266	0.54%
Sb 206.836†	1929.4	0.5203 mg/L		0.00359	0.5203 mg/L	0.00359	0.69%

Se 196.026†	1351.7	0.5151 mg/L	0.00305	0.5151 mg/L	0.00305	0.59%
Sn 189.927†	3532.5	0.5211 mg/L	0.00360	0.5211 mg/L	0.00360	0.69%
Ti 337.279†	8745.6	0.4935 mg/L	0.00517	0.4935 mg/L	0.00517	1.05%
Tl 351.924†	2641.5	0.6194 mg/L	0.00649	0.6194 mg/L	0.00649	1.05%
V 290.880†	41931.8	0.5404 mg/L	0.00419	0.5404 mg/L	0.00419	0.78%
Zn 206.200†	44760.3	1.105 mg/L	0.0045	1.105 mg/L	0.0045	0.41%
Zr 343.823†	135.1	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	18.61%

Sequence No.: 30

Sample ID: B336578-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 51

Date Collected: 4/11/2023 2:16:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336578-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151108.6	101 %		0.96			0.95%
Y axial	3078156.9	97.6 %		1.13			1.16%
Ag 328.068†	15.9	0.0002 mg/L		0.00020	0.0002 mg/L	0.00020	105.77%
Al 396.153†	64.0	0.0149 mg/L		0.00449	0.0149 mg/L	0.00449	30.22%
As 188.979†	-3.7	-0.0016 mg/L		0.00486	-0.0016 mg/L	0.00486	312.40%
B 208.889†	17879.9	1.478 mg/L		0.0217	1.478 mg/L	0.0217	1.47%
Ba 233.527†	10557.5	0.1033 mg/L		0.00132	0.1033 mg/L	0.00132	1.28%
Be 313.107†	1.7	0.0000 mg/L		0.00010	0.0000 mg/L	0.00010	>999.9%
Ca 317.933†	69358.6	14.41 mg/L		0.254	14.41 mg/L	0.254	1.76%
Cd 228.802†	-1.0	-0.0000 mg/L		0.00011	-0.0000 mg/L	0.00011	995.24%
Co 228.616†	9.0	0.0001 mg/L		0.00007	0.0001 mg/L	0.00007	57.74%
Cr 267.716†	2653.1	0.0357 mg/L		0.00064	0.0357 mg/L	0.00064	1.78%
Cu 327.393†	11088.8	0.0702 mg/L		0.00150	0.0702 mg/L	0.00150	2.13%
Fe 238.204†	2.9	-0.0044 mg/L		0.00335	-0.0044 mg/L	0.00335	76.30%
K 766.490†	11431.6	7.369 mg/L		0.1153	7.369 mg/L	0.1153	1.56%
Mg 285.213†	5991.8	0.6356 mg/L		0.00861	0.6356 mg/L	0.00861	1.35%
Mn 257.610†	-2.5	-0.0004 mg/L		0.00035	-0.0004 mg/L	0.00035	82.83%
Mo 202.031†	39.4	0.0017 mg/L		0.00022	0.0017 mg/L	0.00022	12.70%
Na 589.592†	2021343.2	319.2 mg/L		0.24	319.2 mg/L	0.24	0.07%
Ni 231.604†	1519.5	0.0326 mg/L		0.00021	0.0326 mg/L	0.00021	0.64%
Pb 220.353†	14.2	0.0021 mg/L		0.00018	0.0021 mg/L	0.00018	8.26%
Sb 206.836†	113.1	0.0304 mg/L		0.00143	0.0304 mg/L	0.00143	4.69%
Se 196.026†	-8.1	-0.0031 mg/L		0.00501	-0.0031 mg/L	0.00501	162.46%
Sn 189.927†	31.8	0.0047 mg/L		0.00030	0.0047 mg/L	0.00030	6.36%
Ti 337.279†	-1.9	-0.0001 mg/L		0.00054	-0.0001 mg/L	0.00054	496.05%
Tl 351.924†	4.7	0.0011 mg/L		0.00407	0.0011 mg/L	0.00407	366.32%
V 290.880†	217.6	0.0026 mg/L		0.00021	0.0026 mg/L	0.00021	8.04%
Zn 206.200†	55.0	0.0012 mg/L		0.00028	0.0012 mg/L	0.00028	22.50%
Zr 343.823†	23.3	0.0001 mg/L		0.00026	0.0001 mg/L	0.00026	316.73%

Sequence No.: 31

Sample ID: 23D0685-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 52

Date Collected: 4/11/2023 2:24:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23D0685-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156080.2	104 %		0.83			0.80%
Y axial	3143433.5	99.7 %		1.74			1.74%
Ag 328.068†	21.3	0.0002 mg/L		0.00021	0.0002 mg/L	0.00021	83.53%
Al 396.153†	87.4	0.0203 mg/L		0.00291	0.0203 mg/L	0.00291	14.33%
As 188.979†	7.1	0.0041 mg/L		0.00312	0.0041 mg/L	0.00312	76.99%
B 208.889†	17690.9	1.462 mg/L		0.0189	1.462 mg/L	0.0189	1.29%
Ba 233.527†	10457.8	0.1023 mg/L		0.00154	0.1023 mg/L	0.00154	1.50%
Be 313.107†	-45.3	-0.0003 mg/L		0.00003	-0.0003 mg/L	0.00003	9.23%

Ca 317.933†	67463.7	14.02 mg/L	0.021	14.02 mg/L	0.021	0.15%
Cd 228.802†	-3.2	-0.0001 mg/L	0.00009	-0.0001 mg/L	0.00009	98.57%
Co 228.616†	14.3	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	62.59%
Cr 267.716†	2604.9	0.0350 mg/L	0.00079	0.0350 mg/L	0.00079	2.26%
Cu 327.393†	10986.7	0.0696 mg/L	0.00114	0.0696 mg/L	0.00114	1.64%
Fe 238.204†	1.1	-0.0209 mg/L	0.00926	-0.0209 mg/L	0.00926	44.37%
K 766.490†	11134.2	7.177 mg/L	0.0482	7.177 mg/L	0.0482	0.67%
Mg 285.213†	5808.3	0.6161 mg/L	0.00272	0.6161 mg/L	0.00272	0.44%
Mn 257.610†	1.3	0.0002 mg/L	0.00048	0.0002 mg/L	0.00048	223.22%
Mo 202.031†	42.8	0.0019 mg/L	0.00025	0.0019 mg/L	0.00025	13.38%
Na 589.592†	1974404.2	311.8 mg/L	4.67	311.8 mg/L	4.67	1.50%
Ni 231.604†	1488.0	0.0320 mg/L	0.00047	0.0320 mg/L	0.00047	1.47%
Pb 220.353†	0.0	0.0001 mg/L	0.00083	0.0001 mg/L	0.00083	702.42%
Sb 206.836†	104.2	0.0279 mg/L	0.00300	0.0279 mg/L	0.00300	10.75%
Se 196.026†	-1.3	-0.0005 mg/L	0.00236	-0.0005 mg/L	0.00236	483.38%
Sn 189.927†	24.2	0.0036 mg/L	0.00120	0.0036 mg/L	0.00120	33.75%
Ti 337.279†	-1.1	-0.0001 mg/L	0.00042	-0.0001 mg/L	0.00042	671.18%
Tl 351.924†	2.9	0.0007 mg/L	0.00935	0.0007 mg/L	0.00935	>999.9%
V 290.880†	173.7	0.0020 mg/L	0.00039	0.0020 mg/L	0.00039	19.06%
Zn 206.200†	74.2	0.0017 mg/L	0.00037	0.0017 mg/L	0.00037	21.73%
Zr 343.823†	33.6	0.0001 mg/L	0.00015	0.0001 mg/L	0.00015	126.28%

User canceled analysis.

Sequence No.: 1
 Sample ID: SEQ-ICV @2211094
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):
 User canceled analysis.

Autosampler Location: 8
 Date Collected: 4/11/2023 2:31:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sequence No.: 32
 Sample ID: 23D0580-01
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample):

Autosampler Location: 53
 Date Collected: 4/11/2023 2:34:45 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 23D0580-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157578.5	105 %		1.32			1.26%
Y axial	3249554.4	103 %		0.75			0.73%
Ag 328.068†	43.6	0.0005 mg/L		0.00023	0.0005 mg/L	0.00023	45.51%
Al 396.153†	579.6	0.1351 mg/L		0.00654	0.1351 mg/L	0.00654	4.84%
As 188.979†	-0.3	-0.0001 mg/L		0.00331	-0.0001 mg/L	0.00331	>999.9%
B 208.889†	1664.4	0.1376 mg/L		0.00173	0.1376 mg/L	0.00173	1.26%
Ba 233.527†	1898.3	0.0186 mg/L		0.00023	0.0186 mg/L	0.00023	1.23%
Be 313.107†	-44.1	-0.0003 mg/L		0.00009	-0.0003 mg/L	0.00009	30.33%
Ca 317.933†	82815.3	17.21 mg/L		0.292	17.21 mg/L	0.292	1.70%
Cd 228.802†	3.7	0.0001 mg/L		0.00006	0.0001 mg/L	0.00006	71.13%
Co 228.616†	25.6	0.0005 mg/L		0.00010	0.0005 mg/L	0.00010	18.48%
Cr 267.716†	30.2	0.0004 mg/L		0.00017	0.0004 mg/L	0.00017	42.20%
Cu 327.393†	3942.1	0.0250 mg/L		0.00030	0.0250 mg/L	0.00030	1.20%
Fe 238.204†	41.2	0.3813 mg/L		0.01005	0.3813 mg/L	0.01005	2.64%
K 766.490†	15838.4	10.21 mg/L		0.169	10.21 mg/L	0.169	1.66%
Mg 285.213†	42864.6	4.547 mg/L		0.0739	4.547 mg/L	0.0739	1.63%
Mn 257.610†	673.6	0.1141 mg/L		0.00219	0.1141 mg/L	0.00219	1.92%
Mo 202.031†	5.2	0.0002 mg/L		0.00032	0.0002 mg/L	0.00032	141.01%
Na 589.592†	569641.2	89.95 mg/L		0.516	89.95 mg/L	0.516	0.57%
Ni 231.604†	78.4	0.0017 mg/L		0.00017	0.0017 mg/L	0.00017	10.13%
Pb 220.353†	15.3	0.0023 mg/L		0.00085	0.0023 mg/L	0.00085	36.78%
Sb 206.836†	8.0	0.0022 mg/L		0.00087	0.0022 mg/L	0.00087	40.19%
Se 196.026†	5.0	0.0019 mg/L		0.00105	0.0019 mg/L	0.00105	55.23%
Sn 189.927†	55.8	0.0082 mg/L		0.00122	0.0082 mg/L	0.00122	14.84%
Ti 337.279†	68.5	0.0039 mg/L		0.00060	0.0039 mg/L	0.00060	15.50%
Tl 351.924†	5.5	0.0015 mg/L		0.00340	0.0015 mg/L	0.00340	221.24%
V 290.880†	729.3	0.0077 mg/L		0.00019	0.0077 mg/L	0.00019	2.45%
Zn 206.200†	2115.5	0.0518 mg/L		0.00033	0.0518 mg/L	0.00033	0.65%
Zr 343.823†	162.5	0.0006 mg/L		0.00013	0.0006 mg/L	0.00013	22.43%

Sequence No.: 33
 Sample ID: 23D0580-02
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 220

Autosampler Location: 54
 Date Collected: 4/11/2023 2:42:33 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 23D0580-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	156572.7	104 %		0.11			0.11%
Y axial	3229466.3	102 %		1.03			1.00%
Ag 328.068†	23.3	0.0003 mg/L		0.00026	0.0003 mg/L	0.00026	95.96%
Al 396.153†	975.9	0.2275 mg/L		0.00219	0.2275 mg/L	0.00219	0.96%
As 188.979†	3.4	0.0019 mg/L		0.00069	0.0019 mg/L	0.00069	35.71%
B 208.889†	2020.3	0.1670 mg/L		0.00185	0.1670 mg/L	0.00185	1.11%

Ba 233.527†	5204.1	0.0509 mg/L	0.00036	0.0509 mg/L	0.00036	0.71%
Be 313.107†	-49.2	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	9.22%
Ca 317.933†	81784.5	16.99 mg/L	0.093	16.99 mg/L	0.093	0.55%
Cd 228.802†	11.7	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	46.18%
Co 228.616†	34.0	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	17.37%
Cr 267.716†	78.1	0.0010 mg/L	0.00012	0.0010 mg/L	0.00012	10.99%
Cu 327.393†	9201.7	0.0583 mg/L	0.00083	0.0583 mg/L	0.00083	1.42%
Fe 238.204†	92.5	0.8743 mg/L	0.00303	0.8743 mg/L	0.00303	0.35%
K 766.490†	16966.0	10.94 mg/L	0.076	10.94 mg/L	0.076	0.69%
Mg 285.213†	45257.9	4.801 mg/L	0.0270	4.801 mg/L	0.0270	0.56%
Mn 257.610†	630.8	0.1069 mg/L	0.00127	0.1069 mg/L	0.00127	1.18%
Mo 202.031†	9.6	0.0004 mg/L	0.00039	0.0004 mg/L	0.00039	92.31%
Na 589.592†	518469.8	81.87 mg/L	0.358	81.87 mg/L	0.358	0.44%
Ni 231.604†	105.6	0.0023 mg/L	0.00022	0.0023 mg/L	0.00022	9.52%
Pb 220.353†	24.2	0.0035 mg/L	0.00127	0.0035 mg/L	0.00127	35.92%
Sb 206.836†	13.4	0.0036 mg/L	0.00132	0.0036 mg/L	0.00132	36.72%
Se 196.026†	-1.3	-0.0005 mg/L	0.00394	-0.0005 mg/L	0.00394	803.02%
Sn 189.927†	71.8	0.0106 mg/L	0.00133	0.0106 mg/L	0.00133	12.53%
Ti 337.279†	183.9	0.0104 mg/L	0.00054	0.0104 mg/L	0.00054	5.17%
Tl 351.924†	11.9	0.0034 mg/L	0.01396	0.0034 mg/L	0.01396	416.15%
V 290.880†	814.7	0.0086 mg/L	0.00032	0.0086 mg/L	0.00032	3.67%
Zn 206.200†	4308.6	0.1058 mg/L	0.00085	0.1058 mg/L	0.00085	0.80%
Zr 343.823†	464.4	0.0016 mg/L	0.00022	0.0016 mg/L	0.00022	13.34%

Sequence No.: 34

Sample ID: 23D0687-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 55

Date Collected: 4/11/2023 2:50:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23D0687-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	148667.7	99.2 %		0.77			0.77%
Y axial	3083536.8	97.8 %		0.27			0.28%
Ag 328.068†	-17.8	-0.0003 mg/L		0.00040	-0.0003 mg/L	0.00040	130.96%
Al 396.153†	33833.6	7.889 mg/L		0.0910	7.889 mg/L	0.0910	1.15%
As 188.979†	-17.5	-0.0020 mg/L		0.00169	-0.0020 mg/L	0.00169	82.64%
B 208.889†	400.0	0.0330 mg/L		0.00034	0.0330 mg/L	0.00034	1.04%
Ba 233.527†	1348.2	0.0132 mg/L		0.00006	0.0132 mg/L	0.00006	0.44%
Be 313.107†	2.3	-0.0000 mg/L		0.00009	-0.0000 mg/L	0.00009	>999.9%
Ca 317.933†	14299.8	2.971 mg/L		0.0512	2.971 mg/L	0.0512	1.72%
Cd 228.802†	11.3	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	21.15%
Co 228.616†	55.9	0.0008 mg/L		0.00022	0.0008 mg/L	0.00022	25.68%
Cr 267.716†	48089.4	0.6463 mg/L		0.00381	0.6463 mg/L	0.00381	0.59%
Cu 327.393†	132891.7	0.8419 mg/L		0.00721	0.8419 mg/L	0.00721	0.86%
Fe 238.204†	14.6	0.1169 mg/L		0.00702	0.1169 mg/L	0.00702	6.01%
K 766.490†	7771.2	5.009 mg/L		0.0265	5.009 mg/L	0.0265	0.53%
Mg 285.213†	8229.5	0.8724 mg/L		0.00762	0.8724 mg/L	0.00762	0.87%
Mn 257.610†	7261.9	1.230 mg/L		0.0161	1.230 mg/L	0.0161	1.31%
Mo 202.031†	25.9	0.0011 mg/L		0.00021	0.0011 mg/L	0.00021	18.17%
Na 589.592†	1519806.7	240.0 mg/L		1.31	240.0 mg/L	1.31	0.55%
Ni 231.604†	103.8	0.0022 mg/L		0.00022	0.0022 mg/L	0.00022	10.05%
Pb 220.353†	47.4	0.0069 mg/L		0.00171	0.0069 mg/L	0.00171	24.90%
Sb 206.836†	59.5	0.0016 mg/L		0.00100	0.0016 mg/L	0.00100	60.82%
Se 196.026†	10.7	0.0041 mg/L		0.00404	0.0041 mg/L	0.00404	99.63%
Sn 189.927†	34.2	0.0061 mg/L		0.00266	0.0061 mg/L	0.00266	43.41%
Ti 337.279†	3756.9	0.2120 mg/L		0.00787	0.2120 mg/L	0.00787	3.71%
Tl 351.924†	131.9	0.0302 mg/L		0.00637	0.0302 mg/L	0.00637	21.12%
V 290.880†	1131.8	0.0140 mg/L		0.00075	0.0140 mg/L	0.00075	5.35%
Zn 206.200†	749.1	0.0214 mg/L		0.00098	0.0214 mg/L	0.00098	4.57%
Zr 343.823†	7845.6	0.0280 mg/L		0.00036	0.0280 mg/L	0.00036	1.29%

Sequence No.: 35

Sample ID: RINSE

Analyst:

Autosampler Location: 7

Date Collected: 4/11/2023 2:58:09 PM

Data Type: Original

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	156709.8	105	%	1.59				1.52%
Y axial	3439542.6	109	%	0.69				0.63%
Ag 328.068†	-13.5	-0.0002	mg/L	0.00049	-0.0002	mg/L	0.00049	307.59%
Al 396.153†	14.0	0.0033	mg/L	0.00694	0.0033	mg/L	0.00694	212.76%
As 188.979†	-2.7	-0.0014	mg/L	0.00285	-0.0014	mg/L	0.00285	199.34%
B 208.889†	95.1	0.0079	mg/L	0.00053	0.0079	mg/L	0.00053	6.71%
Ba 233.527†	9.7	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	122.43%
Be 313.107†	-64.0	-0.0004	mg/L	0.00008	-0.0004	mg/L	0.00008	20.19%
Ca 317.933†	41.3	0.0086	mg/L	0.00437	0.0086	mg/L	0.00437	50.87%
Cd 228.802†	-6.0	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	141.56%
Co 228.616†	7.6	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	79.91%
Cr 267.716†	8.3	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	63.41%
Cu 327.393†	321.4	0.0020	mg/L	0.00013	0.0020	mg/L	0.00013	6.38%
Fe 238.204†	1.8	0.0171	mg/L	0.00720	0.0171	mg/L	0.00720	42.21%
K 766.490†	-56.8	-0.0366	mg/L	0.03159	-0.0366	mg/L	0.03159	86.21%
Mg 285.213†	11.0	0.0012	mg/L	0.00080	0.0012	mg/L	0.00080	68.82%
Mn 257.610†	3.1	0.0005	mg/L	0.00035	0.0005	mg/L	0.00035	66.81%
Mo 202.031†	3.3	0.0001	mg/L	0.00028	0.0001	mg/L	0.00028	193.33%
Na 589.592†	423.0	0.0668	mg/L	0.00340	0.0668	mg/L	0.00340	5.10%
Ni 231.604†	-9.7	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014	68.23%
Pb 220.353†	4.5	0.0006	mg/L	0.00130	0.0006	mg/L	0.00130	206.22%
Sb 206.836†	1.6	0.0004	mg/L	0.00109	0.0004	mg/L	0.00109	257.10%
Se 196.026†	-4.8	-0.0018	mg/L	0.00164	-0.0018	mg/L	0.00164	89.68%
Sn 189.927†	-5.4	-0.0008	mg/L	0.00055	-0.0008	mg/L	0.00055	69.55%
Ti 337.279†	5.2	0.0003	mg/L	0.00042	0.0003	mg/L	0.00042	144.47%
Tl 351.924†	-0.3	-0.0001	mg/L	0.00489	-0.0001	mg/L	0.00489	>999.9%
V 290.880†	-70.8	-0.0009	mg/L	0.00016	-0.0009	mg/L	0.00016	18.39%
Zn 206.200†	26.7	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	25.12%
Zr 343.823†	69.0	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.87%

Sequence No.: 36

Sample ID: B335766-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 56

Date Collected: 4/11/2023 3:03:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B335766-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	157509.4	105	%	1.17				1.11%
Y axial	3348718.8	106	%	0.61				0.57%
Ag 328.068†	13.5	0.0002	mg/L	0.00053	0.0002	mg/L	0.00053	332.67%
Al 396.153†	-7.0	-0.0016	mg/L	0.00280	-0.0016	mg/L	0.00280	170.98%
As 188.979†	0.5	0.0003	mg/L	0.00502	0.0003	mg/L	0.00502	>999.9%
B 208.889†	58.2	0.0048	mg/L	0.00022	0.0048	mg/L	0.00022	4.57%
Ba 233.527†	10.7	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	19.37%
Be 313.107†	-57.5	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	4.87%
Ca 317.933†	56.0	0.0116	mg/L	0.00429	0.0116	mg/L	0.00429	36.91%
Cd 228.802†	-3.5	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	159.81%
Co 228.616†	10.3	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	62.83%
Cr 267.716†	-8.2	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	53.19%
Cu 327.393†	120.7	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	33.89%
Fe 238.204†	-0.0	-0.0003	mg/L	0.01335	-0.0003	mg/L	0.01335	>999.9%
K 766.490†	27.3	0.0176	mg/L	0.02354	0.0176	mg/L	0.02354	133.60%
Mg 285.213†	14.6	0.0015	mg/L	0.00020	0.0015	mg/L	0.00020	12.63%
Mn 257.610†	1.6	0.0003	mg/L	0.00067	0.0003	mg/L	0.00067	242.32%
Mo 202.031†	-3.5	-0.0002	mg/L	0.00017	-0.0002	mg/L	0.00017	108.37%
Na 589.592†	270.4	0.0427	mg/L	0.00824	0.0427	mg/L	0.00824	19.30%
Ni 231.604†	0.2	-0.0000	mg/L	0.00017	-0.0000	mg/L	0.00017	>999.9%

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157119.9	105 %	1.55			1.48%
Y axial	3273479.0	104 %	1.20			1.16%
Ag 328.068+	171880.1	2.000 mg/L	0.0457	2.000 mg/L	0.0457	2.29%
QC value	less than the lower limit for Ag 328.068		Recovery = 79.99%			
Al 396.153+	41563.5	9.500 mg/L	0.0273	9.500 mg/L	0.0273	0.29%
QC value	within limits for Al 396.153		Recovery = 95.00%			

As 188.979†	9447.1	4.994 mg/L	0.1464	4.994 mg/L	0.1464	2.93%
QC value within limits for As 188.979 Recovery = 99.87%						
B 208.889†	58390.3	4.566 mg/L	0.1324	4.566 mg/L	0.1324	2.90%
QC value within limits for B 208.889 Recovery = 91.33%						
Ba 233.527†	512063.4	5.015 mg/L	0.0107	5.015 mg/L	0.0107	0.21%
QC value within limits for Ba 233.527 Recovery = 100.31%						
Be 313.107†	805679.4	4.844 mg/L	0.0046	4.844 mg/L	0.0046	0.10%
QC value within limits for Be 313.107 Recovery = 96.88%						
Ca 317.933†	47164.6	9.799 mg/L	0.0232	9.799 mg/L	0.0232	0.24%
QC value within limits for Ca 317.933 Recovery = 97.99%						
Cd 228.802†	229741.7	4.945 mg/L	0.0162	4.945 mg/L	0.0162	0.33%
QC value within limits for Cd 228.802 Recovery = 98.91%						
Co 228.616†	235293.6	4.969 mg/L	0.0107	4.969 mg/L	0.0107	0.22%
QC value within limits for Co 228.616 Recovery = 99.39%						
Cr 267.716†	370674.5	4.985 mg/L	0.0076	4.985 mg/L	0.0076	0.15%
QC value within limits for Cr 267.716 Recovery = 99.69%						
Cu 327.393†	758613.6	4.821 mg/L	0.0097	4.821 mg/L	0.0097	0.20%
QC value within limits for Cu 327.393 Recovery = 96.41%						
Fe 238.204†	482.1	4.653 mg/L	0.0601	4.653 mg/L	0.0601	1.29%
QC value within limits for Fe 238.204 Recovery = 93.06%						
K 766.490†	15204.6	9.801 mg/L	0.0428	9.801 mg/L	0.0428	0.44%
QC value within limits for K 766.490 Recovery = 98.01%						
Mg 285.213†	92474.8	9.704 mg/L	0.0334	9.704 mg/L	0.0334	0.34%
QC value within limits for Mg 285.213 Recovery = 97.04%						
Mn 257.610†	28848.5	4.887 mg/L	0.0104	4.887 mg/L	0.0104	0.21%
QC value within limits for Mn 257.610 Recovery = 97.75%						
Mo 202.031†	113382.7	4.953 mg/L	0.0131	4.953 mg/L	0.0131	0.26%
QC value within limits for Mo 202.031 Recovery = 99.05%						
Na 589.592†	62335.6	9.844 mg/L	0.0364	9.844 mg/L	0.0364	0.37%
QC value within limits for Na 589.592 Recovery = 98.44%						
Ni 231.604†	232232.2	4.986 mg/L	0.0104	4.986 mg/L	0.0104	0.21%
QC value within limits for Ni 231.604 Recovery = 99.73%						
Pb 220.353†	35714.8	5.071 mg/L	0.1222	5.071 mg/L	0.1222	2.41%
QC value within limits for Pb 220.353 Recovery = 101.43%						
Sb 206.836†	17955.3	4.842 mg/L	0.1194	4.842 mg/L	0.1194	2.47%
QC value within limits for Sb 206.836 Recovery = 96.84%						
Se 196.026†	12982.7	4.948 mg/L	0.1404	4.948 mg/L	0.1404	2.84%
QC value within limits for Se 196.026 Recovery = 98.95%						
Sn 189.927†	34581.9	5.102 mg/L	0.1287	5.102 mg/L	0.1287	2.52%
QC value within limits for Sn 189.927 Recovery = 102.03%						
Ti 337.279†	86241.0	4.864 mg/L	0.0103	4.864 mg/L	0.0103	0.21%
QC value within limits for Ti 337.279 Recovery = 97.27%						
Tl 351.924†	13541.0	3.150 mg/L	0.0928	3.150 mg/L	0.0928	2.94%
QC value greater than the upper limit for Tl 351.924 Recovery = 126.02%						
V 290.880†	395568.4	5.117 mg/L	0.0144	5.117 mg/L	0.0144	0.28%
QC value within limits for V 290.880 Recovery = 102.35%						
Zn 206.200†	208904.5	5.168 mg/L	0.0157	5.168 mg/L	0.0157	0.30%
QC value within limits for Zn 206.200 Recovery = 103.37%						
Zr 343.823†	1383609.1	4.933 mg/L	0.0079	4.933 mg/L	0.0079	0.16%
QC Failed. Continue with analysis.						

Sequence No.: 39

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 3:24:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Ag failed; 04/12/23 ATP

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	158523.2	106 %	1.78			1.68%
Y axial	3371985.4	107 %	0.83			0.77%
Ag 328.068†	1004.7	0.0118 mg/L	0.00065	0.0118 mg/L	0.00065	5.53%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated						
Al 396.153†	-23.4	-0.0055 mg/L	0.00132	-0.0055 mg/L	0.00132	24.15%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	4.1	0.0021 mg/L	0.00018	0.0021 mg/L	0.00018	8.32%

QC value within limits for As 188.979 Recovery = Not calculated
 B 208.889† 265.2 0.0219 mg/L 0.00101 0.0219 mg/L 0.00101 4.63%
 QC value within limits for B 208.889 Recovery = Not calculated
 Ba 233.527† 24.3 0.0002 mg/L 0.00011 0.0002 mg/L 0.00011 46.78%
 QC value within limits for Ba 233.527 Recovery = Not calculated
 Be 313.107† 2.1 0.0000 mg/L 0.00014 0.0000 mg/L 0.00014 896.23%
 QC value within limits for Be 313.107 Recovery = Not calculated
 Ca 317.933† 6.8 0.0014 mg/L 0.00205 0.0014 mg/L 0.00205 144.06%
 QC value within limits for Ca 317.933 Recovery = Not calculated
 Cd 228.802† 6.9 0.0001 mg/L 0.00007 0.0001 mg/L 0.00007 53.39%
 QC value within limits for Cd 228.802 Recovery = Not calculated
 Co 228.616† 13.0 0.0003 mg/L 0.00013 0.0003 mg/L 0.00013 47.66%
 QC value within limits for Co 228.616 Recovery = Not calculated
 Cr 267.716† 4.6 0.0001 mg/L 0.00006 0.0001 mg/L 0.00006 90.46%
 QC value within limits for Cr 267.716 Recovery = Not calculated
 Cu 327.393† 239.2 0.0015 mg/L 0.00029 0.0015 mg/L 0.00029 19.33%
 QC value within limits for Cu 327.393 Recovery = Not calculated
 Fe 238.204† -0.1 -0.0014 mg/L 0.02947 -0.0014 mg/L 0.02947 >999.9%
 QC value within limits for Fe 238.204 Recovery = Not calculated
 K 766.490† -13.9 -0.0090 mg/L 0.05154 -0.0090 mg/L 0.05154 573.61%
 QC value within limits for K 766.490 Recovery = Not calculated
 Mg 285.213† 0.6 0.0001 mg/L 0.00060 0.0001 mg/L 0.00060 >999.9%
 QC value within limits for Mg 285.213 Recovery = Not calculated
 Mn 257.610† 3.2 0.0005 mg/L 0.00065 0.0005 mg/L 0.00065 120.21%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† 21.6 0.0009 mg/L 0.00035 0.0009 mg/L 0.00035 37.02%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592† 179.4 0.0283 mg/L 0.01696 0.0283 mg/L 0.01696 59.84%
 QC value within limits for Na 589.592 Recovery = Not calculated
 Ni 231.604† 12.7 0.0003 mg/L 0.00022 0.0003 mg/L 0.00022 82.93%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 Pb 220.353† 16.1 0.0023 mg/L 0.00056 0.0023 mg/L 0.00056 24.74%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 Sb 206.836† 6.5 0.0018 mg/L 0.00119 0.0018 mg/L 0.00119 66.69%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† 5.6 0.0021 mg/L 0.00343 0.0021 mg/L 0.00343 160.29%
 QC value within limits for Se 196.026 Recovery = Not calculated
 Sn 189.927† 2.1 0.0003 mg/L 0.00163 0.0003 mg/L 0.00163 528.02%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Ti 337.279† 8.6 0.0005 mg/L 0.00046 0.0005 mg/L 0.00046 96.09%
 QC value within limits for Ti 337.279 Recovery = Not calculated
 Tl 351.924† 34.5 0.0081 mg/L 0.00288 0.0081 mg/L 0.00288 35.50%
 QC value within limits for Tl 351.924 Recovery = Not calculated
 V 290.880† -50.0 -0.0006 mg/L 0.00017 -0.0006 mg/L 0.00017 27.87%
 QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 42.5 0.0010 mg/L 0.00033 0.0010 mg/L 0.00033 31.53%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 66.3 0.0002 mg/L 0.00011 0.0002 mg/L 0.00011 45.31%
 QC Failed. Continue with analysis.

Sequence No.: 40

Sample ID: B335766-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 58

Date Collected: 4/11/2023 3:30:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B335766-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153070.5	102 %	1.32			1.29%
Y axial	3230025.0	102 %	0.70			0.68%
Ag 328.068†	47110.8	0.5528 mg/L	0.00423	0.5528 mg/L	0.00423	0.77%
Al 396.153†	2096.4	0.4739 mg/L	0.00419	0.4739 mg/L	0.00419	0.88%
As 188.979†	906.4	0.4797 mg/L	0.00063	0.4797 mg/L	0.00063	0.13%
B 208.889†	11744.0	0.9445 mg/L	0.00122	0.9445 mg/L	0.00122	0.13%
Ba 233.527†	52183.1	0.5111 mg/L	0.00437	0.5111 mg/L	0.00437	0.85%
Be 313.107†	81523.6	0.4898 mg/L	0.00179	0.4898 mg/L	0.00179	0.36%

Ca 317.933†	18320.1	3.806 mg/L	0.0095	3.806 mg/L	0.0095	0.25%
Cd 228.802†	23546.9	0.5070 mg/L	0.00469	0.5070 mg/L	0.00469	0.92%
Co 228.616†	23845.3	0.5036 mg/L	0.00444	0.5036 mg/L	0.00444	0.88%
Cr 267.716†	37473.4	0.5039 mg/L	0.00287	0.5039 mg/L	0.00287	0.57%
Cu 327.393†	149317.9	0.9464 mg/L	0.01176	0.9464 mg/L	0.01176	1.24%
Fe 238.204†	392.5	3.772 mg/L	0.0762	3.772 mg/L	0.0762	2.02%
K 766.490†	5986.1	3.859 mg/L	0.0369	3.859 mg/L	0.0369	0.96%
Mg 285.213†	35499.4	3.767 mg/L	0.0218	3.767 mg/L	0.0218	0.58%
Mn 257.610†	2875.6	0.4872 mg/L	0.00749	0.4872 mg/L	0.00749	1.54%
Mo 202.031†	11404.8	0.4982 mg/L	0.00069	0.4982 mg/L	0.00069	0.14%
Na 589.592†	24833.7	3.922 mg/L	0.0221	3.922 mg/L	0.0221	0.56%
Ni 231.604†	23769.5	0.5101 mg/L	0.00465	0.5101 mg/L	0.00465	0.91%
Pb 220.353†	3650.8	0.5178 mg/L	0.00138	0.5178 mg/L	0.00138	0.27%
Sb 206.836†	1796.0	0.4840 mg/L	0.00097	0.4840 mg/L	0.00097	0.20%
Se 196.026†	1331.9	0.5076 mg/L	0.00119	0.5076 mg/L	0.00119	0.23%
Sn 189.927†	3476.4	0.5128 mg/L	0.00035	0.5128 mg/L	0.00035	0.07%
Ti 337.279†	8576.2	0.4839 mg/L	0.00203	0.4839 mg/L	0.00203	0.42%
Tl 351.924†	2734.8	0.6413 mg/L	0.00477	0.6413 mg/L	0.00477	0.74%
V 290.880†	40535.8	0.5229 mg/L	0.00393	0.5229 mg/L	0.00393	0.75%
Zn 206.200†	42379.6	1.046 mg/L	0.0074	1.046 mg/L	0.0074	0.71%
Zr 343.823†	258.3	0.0008 mg/L	0.00017	0.0008 mg/L	0.00017	20.89%

Sequence No.: 41

Sample ID: B335766-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 59

Date Collected: 4/11/2023 3:37:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B335766-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	154274.6	103	%	1.34			1.31%
Y axial	3241674.2	103	%	0.46			0.44%
Ag 328.068†	16358.8	0.1920	mg/L	0.00798	0.1920 mg/L	0.00798	4.15%
Al 396.153†	2142.4	0.4849	mg/L	0.02585	0.4849 mg/L	0.02585	5.33%
As 188.979†	895.4	0.4765	mg/L	0.00103	0.4765 mg/L	0.00103	0.22%
B 208.889†	12219.2	0.9844	mg/L	0.00364	0.9844 mg/L	0.00364	0.37%
Ba 233.527†	51633.3	0.5057	mg/L	0.00427	0.5057 mg/L	0.00427	0.84%
Be 313.107†	80525.1	0.4838	mg/L	0.01238	0.4838 mg/L	0.01238	2.56%
Ca 317.933†	149267.6	31.01	mg/L	0.797	31.01 mg/L	0.797	2.57%
Cd 228.802†	22829.4	0.4915	mg/L	0.00429	0.4915 mg/L	0.00429	0.87%
Co 228.616†	22666.7	0.4782	mg/L	0.00397	0.4782 mg/L	0.00397	0.83%
Cr 267.716†	55546.1	0.7469	mg/L	0.00598	0.7469 mg/L	0.00598	0.80%
Cu 327.393†	146343.9	0.9276	mg/L	0.00813	0.9276 mg/L	0.00813	0.88%
Fe 238.204†	394.6	3.775	mg/L	0.0507	3.775 mg/L	0.0507	1.34%
K 766.490†	12646.5	8.152	mg/L	0.1885	8.152 mg/L	0.1885	2.31%
Mg 285.213†	98003.5	10.40	mg/L	0.253	10.40 mg/L	0.253	2.44%
Mn 257.610†	3014.7	0.5107	mg/L	0.00936	0.5107 mg/L	0.00936	1.83%
Mo 202.031†	11129.2	0.4861	mg/L	0.00152	0.4861 mg/L	0.00152	0.31%
Na 589.592†	456341.0	72.06	mg/L	0.200	72.06 mg/L	0.200	0.28%
Ni 231.604†	52519.0	1.128	mg/L	0.0107	1.128 mg/L	0.0107	0.95%
Pb 220.353†	3423.6	0.4860	mg/L	0.00136	0.4860 mg/L	0.00136	0.28%
Sb 206.836†	1793.6	0.4793	mg/L	0.00181	0.4793 mg/L	0.00181	0.38%
Se 196.026†	1311.3	0.4997	mg/L	0.00126	0.4997 mg/L	0.00126	0.25%
Sn 189.927†	3441.8	0.5077	mg/L	0.00208	0.5077 mg/L	0.00208	0.41%
Ti 337.279†	8487.7	0.4789	mg/L	0.01421	0.4789 mg/L	0.01421	2.97%
Tl 351.924†	2578.0	0.6046	mg/L	0.00298	0.6046 mg/L	0.00298	0.49%
V 290.880†	40307.9	0.5176	mg/L	0.00417	0.5176 mg/L	0.00417	0.81%
Zn 206.200†	43166.7	1.066	mg/L	0.0115	1.066 mg/L	0.0115	1.08%
Zr 343.823†	114.0	0.0003	mg/L	0.00005	0.0003 mg/L	0.00005	17.09%

Sequence No.: 42

Sample ID: B335766-MSD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 4/11/2023 3:45:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B335766-MSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153749.2	103	%	1.92			1.87%
Y axial	3143469.1	99.7	%	0.51			0.52%
Ag 328.068†	15528.4	0.1823	mg/L	0.00097	0.1823 mg/L	0.00097	0.53%
Al 396.153†	2178.3	0.4926	mg/L	0.00824	0.4926 mg/L	0.00824	1.67%
As 188.979†	938.2	0.4992	mg/L	0.00380	0.4992 mg/L	0.00380	0.76%
B 208.889†	12749.5	1.027	mg/L	0.0069	1.027 mg/L	0.0069	0.67%
Ba 233.527†	54148.5	0.5304	mg/L	0.00520	0.5304 mg/L	0.00520	0.98%
Be 313.107†	82275.7	0.4942	mg/L	0.00264	0.4942 mg/L	0.00264	0.53%
Ca 317.933†	149512.4	31.06	mg/L	0.237	31.06 mg/L	0.237	0.76%
Cd 228.802†	23947.1	0.5156	mg/L	0.00456	0.5156 mg/L	0.00456	0.88%
Co 228.616†	23826.0	0.5027	mg/L	0.00592	0.5027 mg/L	0.00592	1.18%
Cr 267.716†	57805.0	0.7772	mg/L	0.00796	0.7772 mg/L	0.00796	1.02%
Cu 327.393†	154150.5	0.9770	mg/L	0.00745	0.9770 mg/L	0.00745	0.76%
Fe 238.204†	396.0	3.789	mg/L	0.0947	3.789 mg/L	0.0947	2.50%
K 766.490†	12783.0	8.240	mg/L	0.0685	8.240 mg/L	0.0685	0.83%
Mg 285.213†	98621.2	10.46	mg/L	0.070	10.46 mg/L	0.070	0.67%
Mn 257.610†	3040.3	0.5151	mg/L	0.00915	0.5151 mg/L	0.00915	1.78%
Mo 202.031†	11633.0	0.5081	mg/L	0.00234	0.5081 mg/L	0.00234	0.46%
Na 589.592†	456215.1	72.04	mg/L	1.410	72.04 mg/L	1.410	1.96%
Ni 231.604†	54302.2	1.166	mg/L	0.0098	1.166 mg/L	0.0098	0.84%
Pb 220.353†	3569.6	0.5067	mg/L	0.00247	0.5067 mg/L	0.00247	0.49%
Sb 206.836†	1881.4	0.5029	mg/L	0.00262	0.5029 mg/L	0.00262	0.52%
Se 196.026†	1367.1	0.5210	mg/L	0.00414	0.5210 mg/L	0.00414	0.80%
Sn 189.927†	3599.8	0.5310	mg/L	0.00487	0.5310 mg/L	0.00487	0.92%
Ti 337.279†	8694.6	0.4906	mg/L	0.00150	0.4906 mg/L	0.00150	0.31%
Tl 351.924†	2715.2	0.6367	mg/L	0.00501	0.6367 mg/L	0.00501	0.79%
V 290.880†	42277.0	0.5430	mg/L	0.00407	0.5430 mg/L	0.00407	0.75%
Zn 206.200†	45058.3	1.113	mg/L	0.0135	1.113 mg/L	0.0135	1.21%
Zr 343.823†	67.4	0.0001	mg/L	0.00006	0.0001 mg/L	0.00006	41.59%

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Sequence No.: 43

Sample ID: B335766-PS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 61

Date Collected: 4/11/2023 3:53:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B335766-PS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	158792.0	106	%	0.12			0.11%
Y axial	3162227.0	100	%	0.48			0.48%
Ag 328.068†	34440.1	0.4042	mg/L	0.04033	0.4042 mg/L	0.04033	9.98%
Al 396.153†	11194.0	2.590	mg/L	0.6819	2.590 mg/L	0.6819	26.32%
As 188.979†	1224.8	0.6555	mg/L	0.26218	0.6555 mg/L	0.26218	40.00%
B 208.889†	18058.6	1.458	mg/L	0.4999	1.458 mg/L	0.4999	34.29%
Ba 233.527†	84735.6	0.8299	mg/L	0.40322	0.8299 mg/L	0.40322	48.59%
Be 313.107†	423419.6	2.549	mg/L	0.6607	2.549 mg/L	0.6607	25.92%
Ca 317.933†	220444.7	45.80	mg/L	4.900	45.80 mg/L	4.900	10.70%
Cd 228.802†	37509.8	0.8083	mg/L	0.40916	0.8083 mg/L	0.40916	50.62%
Co 228.616†	36857.6	0.7744	mg/L	0.38934	0.7744 mg/L	0.38934	50.28%
Cr 267.716†	77516.7	1.042	mg/L	0.3960	1.042 mg/L	0.3960	38.00%
Cu 327.393†	237847.5	1.509	mg/L	0.7560	1.509 mg/L	0.7560	50.09%
Fe 238.204†	1745.0	16.74	mg/L	5.037	16.74 mg/L	5.037	30.09%
K 766.490†	38712.3	24.95	mg/L	5.100	24.95 mg/L	5.100	20.44%
Mg 285.213†	241356.5	25.61	mg/L	4.980	25.61 mg/L	4.980	19.45%
Mn 257.610†	12889.2	2.184	mg/L	0.6423	2.184 mg/L	0.6423	29.41%
Mo 202.031†	15090.0	0.6591	mg/L	0.27020	0.6591 mg/L	0.27020	40.99%
Na 589.592†	544507.3	85.99	mg/L	4.809	85.99 mg/L	4.809	5.59%
Ni 231.604†	67076.8	1.440	mg/L	0.3830	1.440 mg/L	0.3830	26.60%
Pb 220.353†	4681.0	0.6642	mg/L	0.26540	0.6642 mg/L	0.26540	39.96%
Sb 206.836†	2467.2	0.6568	mg/L	0.26220	0.6568 mg/L	0.26220	39.92%

Se 196.026†	1857.1	0.7076 mg/L	0.27250	0.7076 mg/L	0.27250	38.51%
Sn 189.927†	4525.5	0.6777 mg/L	0.27598	0.6777 mg/L	0.27598	40.72%
Ti 337.279†	45360.9	2.559 mg/L	0.6727	2.559 mg/L	0.6727	26.28%
Tl 351.924†	4076.4	0.9560 mg/L	0.33127	0.9560 mg/L	0.33127	34.65%
V 290.880†	64920.8	0.8263 mg/L	0.41640	0.8263 mg/L	0.41640	50.40%
Zn 206.200†	68836.1	1.699 mg/L	0.8219	1.699 mg/L	0.8219	48.39%
Zr 343.823†	72.5	-0.0002 mg/L	0.00015	-0.0002 mg/L	0.00015	74.91%

Sequence No.: 44

Sample ID: B335766-SRL1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 62

Date Collected: 4/11/2023 4:01:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B335766-SRL1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151523.4	101 %		1.14			1.13%
Y axial	3214150.7	102 %		1.19			1.17%
Ag 328.068†	367.4	0.0043 mg/L		0.00051	0.0043 mg/L	0.00051	11.93%
Al 396.153†	1.1	0.0002 mg/L		0.00287	0.0002 mg/L	0.00287	>999.9%
As 188.979†	3.3	0.0023 mg/L		0.00302	0.0023 mg/L	0.00302	130.72%
B 208.889†	433.5	0.0358 mg/L		0.00141	0.0358 mg/L	0.00141	3.95%
Ba 233.527†	382.0	0.0037 mg/L		0.00005	0.0037 mg/L	0.00005	1.34%
Be 313.107†	-14.7	-0.0001 mg/L		0.00006	-0.0001 mg/L	0.00006	60.69%
Ca 317.933†	26881.8	5.585 mg/L		0.0069	5.585 mg/L	0.0069	0.12%
Cd 228.802†	7.0	0.0001 mg/L		0.00011	0.0001 mg/L	0.00011	76.77%
Co 228.616†	24.3	0.0004 mg/L		0.00004	0.0004 mg/L	0.00004	8.55%
Cr 267.716†	4035.3	0.0543 mg/L		0.00063	0.0543 mg/L	0.00063	1.17%
Cu 327.393†	236.5	0.0015 mg/L		0.00002	0.0015 mg/L	0.00002	1.49%
Fe 238.204†	3.6	0.0316 mg/L		0.00779	0.0316 mg/L	0.00779	24.67%
K 766.490†	1343.9	0.8663 mg/L		0.01255	0.8663 mg/L	0.01255	1.45%
Mg 285.213†	13185.4	1.399 mg/L		0.0086	1.399 mg/L	0.0086	0.62%
Mn 257.610†	35.8	0.0061 mg/L		0.00052	0.0061 mg/L	0.00052	8.64%
Mo 202.031†	12.2	0.0005 mg/L		0.00018	0.0005 mg/L	0.00018	34.64%
Na 589.592†	89839.0	14.19 mg/L		0.050	14.19 mg/L	0.050	0.35%
Ni 231.604†	6283.9	0.1350 mg/L		0.00067	0.1350 mg/L	0.00067	0.50%
Pb 220.353†	17.9	0.0026 mg/L		0.00096	0.0026 mg/L	0.00096	36.47%
Sb 206.836†	13.4	0.0028 mg/L		0.00227	0.0028 mg/L	0.00227	82.34%
Se 196.026†	-3.9	-0.0015 mg/L		0.00553	-0.0015 mg/L	0.00553	367.22%
Sn 189.927†	23.5	0.0034 mg/L		0.00177	0.0034 mg/L	0.00177	51.46%
Ti 337.279†	-8.1	-0.0005 mg/L		0.00077	-0.0005 mg/L	0.00077	168.96%
Tl 351.924†	32.2	0.0076 mg/L		0.01487	0.0076 mg/L	0.01487	196.34%
V 290.880†	237.5	0.0026 mg/L		0.00030	0.0026 mg/L	0.00030	11.60%
Zn 206.200†	392.7	0.0098 mg/L		0.00005	0.0098 mg/L	0.00005	0.46%
Zr 343.823†	-33.1	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	26.64%

Sequence No.: 45

Sample ID: 23C3284-02

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 63

Date Collected: 4/11/2023 4:07:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	152865.6	102 %		1.12			1.10%
Y axial	3146867.1	99.8 %		0.59			0.59%
Ag 328.068†	-9.8	-0.0001 mg/L		0.00012	-0.0001 mg/L	0.00012	108.24%
Al 396.153†	29.6	0.0069 mg/L		0.00432	0.0069 mg/L	0.00432	62.84%
As 188.979†	-3.8	0.0008 mg/L		0.00232	0.0008 mg/L	0.00232	287.33%
B 208.889†	954.0	0.0788 mg/L		0.00038	0.0788 mg/L	0.00038	0.48%
Ba 233.527†	1888.9	0.0185 mg/L		0.00024	0.0185 mg/L	0.00024	1.32%
Be 313.107†	-14.8	-0.0001 mg/L		0.00006	-0.0001 mg/L	0.00006	47.63%

Ca 317.933†	135462.3	28.14 mg/L	0.066	28.14 mg/L	0.066	0.23%
Cd 228.802†	42.9	0.0010 mg/L	0.00003	0.0010 mg/L	0.00003	2.96%
Co 228.616†	99.7	0.0016 mg/L	0.00007	0.0016 mg/L	0.00007	4.68%
Cr 267.716†	20447.7	0.2749 mg/L	0.00414	0.2749 mg/L	0.00414	1.51%
Cu 327.393†	494.9	0.0031 mg/L	0.00052	0.0031 mg/L	0.00052	16.54%
Fe 238.204†	3.3	0.0146 mg/L	0.01769	0.0146 mg/L	0.01769	120.95%
K 766.490†	6774.6	4.367 mg/L	0.0487	4.367 mg/L	0.0487	1.12%
Mg 285.213†	65703.3	6.970 mg/L	0.0418	6.970 mg/L	0.0418	0.60%
Mn 257.610†	183.0	0.0310 mg/L	0.00038	0.0310 mg/L	0.00038	1.23%
Mo 202.031†	15.8	0.0007 mg/L	0.00043	0.0007 mg/L	0.00043	62.96%
Na 589.592†	449017.5	70.91 mg/L	0.208	70.91 mg/L	0.208	0.29%
Ni 231.604†	31445.8	0.6755 mg/L	0.00832	0.6755 mg/L	0.00832	1.23%
Pb 220.353†	6.3	0.0013 mg/L	0.00113	0.0013 mg/L	0.00113	85.88%
Sb 206.836†	49.4	0.0089 mg/L	0.00180	0.0089 mg/L	0.00180	20.14%
Se 196.026†	3.8	0.0014 mg/L	0.00185	0.0014 mg/L	0.00185	129.93%
Sn 189.927†	82.0	0.0120 mg/L	0.00177	0.0120 mg/L	0.00177	14.66%
Ti 337.279†	0.4	0.0000 mg/L	0.00079	0.0000 mg/L	0.00079	>999.9%
Tl 351.924†	24.5	0.0057 mg/L	0.01380	0.0057 mg/L	0.01380	240.64%
V 290.880†	1090.1	0.0115 mg/L	0.00043	0.0115 mg/L	0.00043	3.73%
Zn 206.200†	1880.4	0.0470 mg/L	0.00124	0.0470 mg/L	0.00124	2.63%
Zr 343.823†	30.0	0.0001 mg/L	0.00018	0.0001 mg/L	0.00018	165.33%

Sequence No.: 46

Sample ID: 23C3284-01

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 64

Date Collected: 4/11/2023 4:13:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153038.1	102	%	1.50			1.47%
Y axial	3111966.6	98.7	%	0.72			0.73%
Ag 328.068†	54.2	0.0006 mg/L		0.00038	0.0006 mg/L	0.00038	59.34%
Al 396.153†	32.8	0.0068 mg/L		0.00331	0.0068 mg/L	0.00331	48.76%
As 188.979†	-9.0	-0.0044 mg/L		0.00171	-0.0044 mg/L	0.00171	38.90%
B 208.889†	2090.6	0.1713 mg/L		0.00117	0.1713 mg/L	0.00117	0.68%
Ba 233.527†	698.6	0.0069 mg/L		0.00005	0.0069 mg/L	0.00005	0.68%
Be 313.107†	-7.9	-0.0002 mg/L		0.00007	-0.0002 mg/L	0.00007	29.23%
Ca 317.933†	74421.4	15.46 mg/L		0.365	15.46 mg/L	0.365	2.36%
Cd 228.802†	2.8	0.0001 mg/L		0.00010	0.0001 mg/L	0.00010	113.67%
Co 228.616†	55.4	0.0012 mg/L		0.00009	0.0012 mg/L	0.00009	7.16%
Cr 267.716†	31.8	0.0005 mg/L		0.00008	0.0005 mg/L	0.00008	16.69%
Cu 327.393†	1174.7	0.0075 mg/L		0.00028	0.0075 mg/L	0.00028	3.65%
Fe 238.204†	342.8	3.172 mg/L		0.0407	3.172 mg/L	0.0407	1.28%
K 766.490†	61460.5	39.62 mg/L		0.828	39.62 mg/L	0.828	2.09%
Mg 285.213†	2655486.0	281.7 mg/L		3.32	281.7 mg/L	3.32	1.18%
Mn 257.610†	372.9	0.0632 mg/L		0.00132	0.0632 mg/L	0.00132	2.10%
Mo 202.031†	647.4	0.0283 mg/L		0.00025	0.0283 mg/L	0.00025	0.88%
Na 589.592†	217646.5	34.37 mg/L		0.332	34.37 mg/L	0.332	0.97%
Ni 231.604†	642.3	0.0138 mg/L		0.00029	0.0138 mg/L	0.00029	2.13%
Pb 220.353†	-8.9	-0.0012 mg/L		0.00224	-0.0012 mg/L	0.00224	185.86%
Sb 206.836†	6.6	0.0017 mg/L		0.00094	0.0017 mg/L	0.00094	56.09%
Se 196.026†	23.3	0.0089 mg/L		0.00108	0.0089 mg/L	0.00108	12.21%
Sn 189.927†	-357.1	-0.0524 mg/L		0.00238	-0.0524 mg/L	0.00238	4.53%
Ti 337.279†	15.3	0.0009 mg/L		0.00015	0.0009 mg/L	0.00015	17.86%
Tl 351.924†	-28.6	-0.0046 mg/L		0.00302	-0.0046 mg/L	0.00302	66.19%
V 290.880†	4711.4	-0.0303 mg/L		0.00151	-0.0303 mg/L	0.00151	4.99%
Zn 206.200†	2012.2	0.0490 mg/L		0.00002	0.0490 mg/L	0.00002	0.05%
Zr 343.823†	41.8	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	82.77%

Sequence No.: 47

Sample ID: 23C3284-03

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 65

Date Collected: 4/11/2023 4:20:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: 23C3284-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	153046.2	102 %		0.40			0.39%
Y axial	3235506.6	103 %		1.68			1.63%
Ag 328.068†	-107.6	-0.0013 mg/L		0.00025	-0.0013 mg/L	0.00025	20.03%
Al 396.153†	64.6	0.0152 mg/L		0.00062	0.0152 mg/L	0.00062	4.08%
As 188.979†	-15.3	-0.0002 mg/L		0.00425	-0.0002 mg/L	0.00425	>999.9%
B 208.889†	331.3	0.0276 mg/L		0.00075	0.0276 mg/L	0.00075	2.71%
Ba 233.527†	2496.9	0.0244 mg/L		0.00041	0.0244 mg/L	0.00041	1.70%
Be 313.107†	-10.8	-0.0001 mg/L		0.00001	-0.0001 mg/L	0.00001	11.31%
Ca 317.933†	45042.7	9.358 mg/L		0.0456	9.358 mg/L	0.0456	0.49%
Cd 228.802†	-10.5	-0.0002 mg/L		0.00010	-0.0002 mg/L	0.00010	63.34%
Co 228.616†	163.1	0.0034 mg/L		0.00004	0.0034 mg/L	0.00004	1.17%
Cr 267.716†	186.6	0.0037 mg/L		0.00011	0.0037 mg/L	0.00011	3.01%
Cu 327.393†	315.3	0.0034 mg/L		0.00037	0.0034 mg/L	0.00037	10.70%
Fe 238.204†	6271.1	60.26 mg/L		0.337	60.26 mg/L	0.337	0.56%
K 766.490†	2080.8	1.341 mg/L		0.0347	1.341 mg/L	0.0347	2.59%
Mg 285.213†	31787.9	3.391 mg/L		0.0191	3.391 mg/L	0.0191	0.56%
Mn 257.610†	242.5	0.0411 mg/L		0.00116	0.0411 mg/L	0.00116	2.83%
Mo 202.031†	-107.7	-0.0047 mg/L		0.00046	-0.0047 mg/L	0.00046	9.81%
Na 589.592†	183111.0	28.92 mg/L		0.108	28.92 mg/L	0.108	0.37%
Ni 231.604†	126.1	0.0027 mg/L		0.00021	0.0027 mg/L	0.00021	7.77%
Pb 220.353†	37.0	0.0022 mg/L		0.00161	0.0022 mg/L	0.00161	73.92%
Sb 206.836†	25.4	0.0011 mg/L		0.00090	0.0011 mg/L	0.00090	81.78%
Se 196.026†	10.0	0.0038 mg/L		0.00306	0.0038 mg/L	0.00306	80.05%
Sn 189.927†	39.5	0.0058 mg/L		0.00145	0.0058 mg/L	0.00145	24.98%
Ti 337.279†	16.6	0.0009 mg/L		0.00065	0.0009 mg/L	0.00065	69.55%
Tl 351.924†	-205.3	-0.0055 mg/L		0.00606	-0.0055 mg/L	0.00606	109.95%
V 290.880†	1053.6	0.0049 mg/L		0.00078	0.0049 mg/L	0.00078	16.08%
Zn 206.200†	299.9	0.0021 mg/L		0.00024	0.0021 mg/L	0.00024	11.57%
Zr 343.823†	439.7	-0.0001 mg/L		0.00002	-0.0001 mg/L	0.00002	23.38%

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Sequence No.: 48

Sample ID: 23C3284-04

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 66

Date Collected: 4/11/2023 4:26:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	149439.5	99.7 %		0.99			0.99%
Y axial	3071754.4	97.4 %		0.14			0.15%
Ag 328.068†	-30.9	-0.0004 mg/L		0.00040	-0.0004 mg/L	0.00040	112.60%
Al 396.153†	3.2	0.0007 mg/L		0.00440	0.0007 mg/L	0.00440	590.90%
As 188.979†	-3.1	-0.0016 mg/L		0.00208	-0.0016 mg/L	0.00208	133.17%
B 208.889†	1519.4	0.1256 mg/L		0.00080	0.1256 mg/L	0.00080	0.64%
Ba 233.527†	13894.0	0.1360 mg/L		0.00016	0.1360 mg/L	0.00016	0.12%
Be 313.107†	0.8	-0.0000 mg/L		0.00011	-0.0000 mg/L	0.00011	242.91%
Ca 317.933†	226588.0	47.08 mg/L		0.864	47.08 mg/L	0.864	1.84%
Cd 228.802†	2.9	0.0001 mg/L		0.00009	0.0001 mg/L	0.00009	120.60%
Co 228.616†	10.0	0.0001 mg/L		0.00004	0.0001 mg/L	0.00004	27.93%
Cr 267.716†	231.8	0.0031 mg/L		0.00009	0.0031 mg/L	0.00009	2.99%
Cu 327.393†	26.9	0.0002 mg/L		0.00020	0.0002 mg/L	0.00020	111.45%
Fe 238.204†	6.4	0.0284 mg/L		0.00670	0.0284 mg/L	0.00670	23.58%
K 766.490†	5372.3	3.463 mg/L		0.0793	3.463 mg/L	0.0793	2.29%
Mg 285.213†	75544.3	8.014 mg/L		0.1080	8.014 mg/L	0.1080	1.35%
Mn 257.610†	51.5	0.0087 mg/L		0.00080	0.0087 mg/L	0.00080	9.13%
Mo 202.031†	-7.6	-0.0003 mg/L		0.00031	-0.0003 mg/L	0.00031	93.41%
Na 589.592†	1240537.9	195.9 mg/L		3.56	195.9 mg/L	3.56	1.82%
Ni 231.604†	103.9	0.0022 mg/L		0.00019	0.0022 mg/L	0.00019	8.27%
Pb 220.353†	-0.4	0.0004 mg/L		0.00242	0.0004 mg/L	0.00242	591.38%
Sb 206.836†	15.0	0.0041 mg/L		0.00300	0.0041 mg/L	0.00300	72.49%

Se 196.026†	-2.4	-0.0009 mg/L	0.00740	-0.0009 mg/L	0.00740	790.88%
Sn 189.927†	102.4	0.0150 mg/L	0.00080	0.0150 mg/L	0.00080	5.33%
Ti 337.279†	-5.5	-0.0003 mg/L	0.00093	-0.0003 mg/L	0.00093	296.55%
Tl 351.924†	-48.2	-0.0113 mg/L	0.00846	-0.0113 mg/L	0.00846	74.66%
V 290.880†	1298.3	0.0138 mg/L	0.00057	0.0138 mg/L	0.00057	4.12%
Zn 206.200†	131.1	0.0023 mg/L	0.00008	0.0023 mg/L	0.00008	3.33%
Zr 343.823†	37.4	0.0001 mg/L	0.00018	0.0001 mg/L	0.00018	137.50%

Sequence No.: 49

Sample ID: 23C3284-05

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 67

Date Collected: 4/11/2023 4:32:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-05

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y radial	151083.2	101 %	0.69			0.69%
Y axial	3232030.3	102 %	4.82			4.71%
Ag 328.068†	-27.4	-0.0003 mg/L	0.00008	-0.0003 mg/L	0.00008	25.79%
Al 396.153†	218.5	0.0509 mg/L	0.00216	0.0509 mg/L	0.00216	4.24%
As 188.979†	-1.8	-0.0009 mg/L	0.00174	-0.0009 mg/L	0.00174	187.62%
B 208.889†	298.0	0.0246 mg/L	0.00191	0.0246 mg/L	0.00191	7.73%
Ba 233.527†	4036.5	0.0395 mg/L	0.00163	0.0395 mg/L	0.00163	4.14%
Be 313.107†	-10.9	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	32.28%
Ca 317.933†	98625.4	20.49 mg/L	0.100	20.49 mg/L	0.100	0.49%
Cd 228.802†	0.7	0.0000 mg/L	0.00021	0.0000 mg/L	0.00021	972.19%
Co 228.616†	13.9	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	16.53%
Cr 267.716†	44.7	0.0006 mg/L	0.00014	0.0006 mg/L	0.00014	22.53%
Cu 327.393†	73.9	0.0005 mg/L	0.00039	0.0005 mg/L	0.00039	81.93%
Fe 238.204†	8.9	0.0753 mg/L	0.00879	0.0753 mg/L	0.00879	11.67%
K 766.490†	3858.7	2.487 mg/L	0.0515	2.487 mg/L	0.0515	2.07%
Mg 285.213†	42588.9	4.518 mg/L	0.0806	4.518 mg/L	0.0806	1.78%
Mn 257.610†	16.1	0.0027 mg/L	0.00077	0.0027 mg/L	0.00077	28.12%
Mo 202.031†	-4.5	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	46.01%
Na 589.592†	188881.3	29.83 mg/L	0.052	29.83 mg/L	0.052	0.17%
Ni 231.604†	220.9	0.0047 mg/L	0.00032	0.0047 mg/L	0.00032	6.66%
Pb 220.353†	3.9	0.0008 mg/L	0.00067	0.0008 mg/L	0.00067	87.49%
Sb 206.836†	-0.7	-0.0002 mg/L	0.00120	-0.0002 mg/L	0.00120	651.30%
Se 196.026†	3.5	0.0013 mg/L	0.00287	0.0013 mg/L	0.00287	214.52%
Sn 189.927†	55.7	0.0082 mg/L	0.00112	0.0082 mg/L	0.00112	13.66%
Ti 337.279†	40.7	0.0023 mg/L	0.00050	0.0023 mg/L	0.00050	21.90%
Tl 351.924†	16.5	0.0039 mg/L	0.00789	0.0039 mg/L	0.00789	202.29%
V 290.880†	693.5	0.0073 mg/L	0.00099	0.0073 mg/L	0.00099	13.58%
Zn 206.200†	103.7	0.0022 mg/L	0.00014	0.0022 mg/L	0.00014	6.26%
Zr 343.823†	42.3	0.0001 mg/L	0.00020	0.0001 mg/L	0.00020	137.58%

Sequence No.: 50

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt: Ag, B, TI failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 110

Autosampler Location: 5

Date Collected: 4/11/2023 4:38:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y radial	154738.2	103 %	0.73			0.71%
Y axial	3221488.3	102 %	0.65			0.64%
Ag 328.068†	179632.2	2.091 mg/L	0.0126	2.091 mg/L	0.0126	0.60%
QC value less than the lower limit for Ag 328.068			Recovery = 83.64%			
Al 396.153†	41160.3	9.410 mg/L	0.0110	9.410 mg/L	0.0110	0.12%
QC value within limits for Al 396.153			Recovery = 94.10%			
As 188.979†	9211.3	4.869 mg/L	0.0608	4.869 mg/L	0.0608	1.25%
QC value within limits for As 188.979			Recovery = 97.38%			

B 208.889†	57348.2	4.486 mg/L	0.0583	4.486 mg/L	0.0583	1.30%
QC value less than the lower limit for B 208.889 Recovery = 89.72%						
Ba 233.527†	499993.2	4.897 mg/L	0.0102	4.897 mg/L	0.0102	0.21%
QC value within limits for Ba 233.527 Recovery = 97.94%						
Be 313.107†	787464.5	4.735 mg/L	0.0077	4.735 mg/L	0.0077	0.16%
QC value within limits for Be 313.107 Recovery = 94.69%						
Ca 317.933†	46185.1	9.596 mg/L	0.0174	9.596 mg/L	0.0174	0.18%
QC value within limits for Ca 317.933 Recovery = 95.96%						
Cd 228.802†	224564.4	4.834 mg/L	0.0025	4.834 mg/L	0.0025	0.05%
QC value within limits for Cd 228.802 Recovery = 96.68%						
Co 228.616†	228775.5	4.832 mg/L	0.0086	4.832 mg/L	0.0086	0.18%
QC value within limits for Co 228.616 Recovery = 96.63%						
Cr 267.716†	361687.9	4.864 mg/L	0.0112	4.864 mg/L	0.0112	0.23%
QC value within limits for Cr 267.716 Recovery = 97.28%						
Cu 327.393†	745306.6	4.736 mg/L	0.0049	4.736 mg/L	0.0049	0.10%
QC value within limits for Cu 327.393 Recovery = 94.72%						
Fe 238.204†	475.7	4.591 mg/L	0.0326	4.591 mg/L	0.0326	0.71%
QC value within limits for Fe 238.204 Recovery = 91.82%						
K 766.490†	15104.0	9.736 mg/L	0.0450	9.736 mg/L	0.0450	0.46%
QC value within limits for K 766.490 Recovery = 97.36%						
Mg 285.213†	91529.3	9.606 mg/L	0.0021	9.606 mg/L	0.0021	0.02%
QC value within limits for Mg 285.213 Recovery = 96.06%						
Mn 257.610†	28310.4	4.796 mg/L	0.0024	4.796 mg/L	0.0024	0.05%
QC value within limits for Mn 257.610 Recovery = 95.92%						
Mo 202.031†	110787.8	4.839 mg/L	0.0113	4.839 mg/L	0.0113	0.23%
QC value within limits for Mo 202.031 Recovery = 96.78%						
Na 589.592†	62125.9	9.811 mg/L	0.0091	9.811 mg/L	0.0091	0.09%
QC value within limits for Na 589.592 Recovery = 98.11%						
Ni 231.604†	226522.0	4.864 mg/L	0.0142	4.864 mg/L	0.0142	0.29%
QC value within limits for Ni 231.604 Recovery = 97.28%						
Pb 220.353†	34694.8	4.927 mg/L	0.0797	4.927 mg/L	0.0797	1.62%
QC value within limits for Pb 220.353 Recovery = 98.53%						
Sb 206.836†	17560.0	4.736 mg/L	0.0647	4.736 mg/L	0.0647	1.37%
QC value within limits for Sb 206.836 Recovery = 94.71%						
Se 196.026†	12596.4	4.800 mg/L	0.0658	4.800 mg/L	0.0658	1.37%
QC value within limits for Se 196.026 Recovery = 96.01%						
Sn 189.927†	33637.5	4.963 mg/L	0.0738	4.963 mg/L	0.0738	1.49%
QC value within limits for Sn 189.927 Recovery = 99.25%						
Ti 337.279†	84635.7	4.773 mg/L	0.0050	4.773 mg/L	0.0050	0.10%
QC value within limits for Ti 337.279 Recovery = 95.46%						
Tl 351.924†	13239.2	3.080 mg/L	0.0388	3.080 mg/L	0.0388	1.26%
QC value greater than the upper limit for Tl 351.924 Recovery = 123.20%						
V 290.880†	389858.3	5.043 mg/L	0.0040	5.043 mg/L	0.0040	0.08%
QC value within limits for V 290.880 Recovery = 100.85%						
Zn 206.200†	203150.1	5.026 mg/L	0.0081	5.026 mg/L	0.0081	0.16%
QC value within limits for Zn 206.200 Recovery = 100.52%						
Zr 343.823†	1359013.9	4.845 mg/L	0.0064	4.845 mg/L	0.0064	0.13%
QC Failed. Continue with analysis.						

Sequence No.: 51

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 4:45:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	157860.8	105 %	0.94			0.90%
Y axial	3324763.9	105 %	1.82			1.73%
Ag 328.068†	585.6	0.0069 mg/L	0.00011	0.0069 mg/L	0.00011	1.58%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	3.5	0.0008 mg/L	0.00083	0.0008 mg/L	0.00083	106.51%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-2.1	-0.0011 mg/L	0.00199	-0.0011 mg/L	0.00199	181.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	233.3	0.0192 mg/L	0.00067	0.0192 mg/L	0.00067	3.48%

QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	25.3	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	42.64%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	7.7	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	184.82%	
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933†	4.5	0.0009 mg/L	0.00213	0.0009 mg/L	0.00213	228.95%	
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 228.802†	9.5	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	39.64%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	14.9	0.0003 mg/L	0.00024	0.0003 mg/L	0.00024	76.20%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	22.0	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	40.24%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	212.6	0.0013 mg/L	0.00031	0.0013 mg/L	0.00031	22.75%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	0.3	0.0026 mg/L	0.00526	0.0026 mg/L	0.00526	204.13%	
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	-8.7	-0.0056 mg/L	0.01089	-0.0056 mg/L	0.01089	194.65%	
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	9.2	0.0010 mg/L	0.00035	0.0010 mg/L	0.00035	35.85%	
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	6.5	0.0011 mg/L	0.00084	0.0011 mg/L	0.00084	75.62%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	22.2	0.0010 mg/L	0.00050	0.0010 mg/L	0.00050	51.30%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	206.4	0.0326 mg/L	0.00832	0.0326 mg/L	0.00832	25.53%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	13.6	0.0003 mg/L	0.00018	0.0003 mg/L	0.00018	61.18%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	19.2	0.0027 mg/L	0.00033	0.0027 mg/L	0.00033	12.31%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	7.5	0.0020 mg/L	0.00203	0.0020 mg/L	0.00203	99.17%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.6	0.0010 mg/L	0.00253	0.0010 mg/L	0.00253	257.37%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	0.4	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	211.36%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	12.0	0.0007 mg/L	0.00060	0.0007 mg/L	0.00060	88.12%	
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 351.924†	14.0	0.0033 mg/L	0.00844	0.0033 mg/L	0.00844	257.51%	
QC value within limits for Tl 351.924 Recovery = Not calculated							
V 290.880†	-15.5	-0.0002 mg/L	0.00029	-0.0002 mg/L	0.00029	172.54%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	40.7	0.0010 mg/L	0.00016	0.0010 mg/L	0.00016	15.85%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
Zr 343.823†	52.8	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	73.73%	
All analyte(s) passed QC.							

Sequence No.: 52
Sample ID: 23C3284-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 110

Autosampler Location: 68
Date Collected: 4/11/2023 4:51:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 23C3284-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	155438.3	104	%	1.61			1.55%
Y axial	3310077.6	105	%	1.71			1.63%
Ag 328.068†	178.7	0.0021 mg/L		0.00028	0.0021 mg/L	0.00028	13.21%
Al 396.153†	-13.9	-0.0033 mg/L		0.00428	-0.0033 mg/L	0.00428	131.32%
As 188.979†	-0.9	-0.0005 mg/L		0.00132	-0.0005 mg/L	0.00132	273.66%
B 208.889†	150.9	0.0124 mg/L		0.00023	0.0124 mg/L	0.00023	1.86%
Ba 233.527†	20.0	0.0002 mg/L		0.00016	0.0002 mg/L	0.00016	80.85%
Be 313.107†	-31.1	-0.0002 mg/L		0.00002	-0.0002 mg/L	0.00002	11.94%
Ca 317.933†	214.4	0.0445 mg/L		0.00326	0.0445 mg/L	0.00326	7.33%
Cd 228.802†	-1.2	-0.0000 mg/L		0.00010	-0.0000 mg/L	0.00010	419.43%

Co 228.616†	2.9	0.0001 mg/L	0.00012	0.0001 mg/L	0.00012	189.89%
Cr 267.716†	27.6	0.0004 mg/L	0.00010	0.0004 mg/L	0.00010	26.11%
Cu 327.393†	140.6	0.0009 mg/L	0.00026	0.0009 mg/L	0.00026	29.43%
Fe 238.204†	-0.8	-0.0080 mg/L	0.00868	-0.0080 mg/L	0.00868	108.21%
K 766.490†	77.3	0.0498 mg/L	0.01311	0.0498 mg/L	0.01311	26.32%
Mg 285.213†	72.7	0.0077 mg/L	0.00051	0.0077 mg/L	0.00051	6.65%
Mn 257.610†	0.3	0.0000 mg/L	0.00077	0.0000 mg/L	0.00077	>999.9%
Mo 202.031†	9.8	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022	50.97%
Na 589.592†	1399.6	0.2210 mg/L	0.00483	0.2210 mg/L	0.00483	2.19%
Ni 231.604†	-9.3	-0.0002 mg/L	0.00018	-0.0002 mg/L	0.00018	90.26%
Pb 220.353†	22.2	0.0031 mg/L	0.00088	0.0031 mg/L	0.00088	27.94%
Sb 206.836†	10.7	0.0029 mg/L	0.00151	0.0029 mg/L	0.00151	51.60%
Se 196.026†	-1.1	-0.0004 mg/L	0.00221	-0.0004 mg/L	0.00221	522.71%
Sn 189.927†	2.2	0.0003 mg/L	0.00058	0.0003 mg/L	0.00058	179.52%
Ti 337.279†	10.7	0.0006 mg/L	0.00037	0.0006 mg/L	0.00037	60.35%
Tl 351.924†	5.0	0.0012 mg/L	0.00376	0.0012 mg/L	0.00376	320.93%
V 290.880†	17.1	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	85.44%
Zn 206.200†	39.4	0.0010 mg/L	0.00026	0.0010 mg/L	0.00026	26.80%
Zr 343.823†	33.4	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	116.68%

Sequence No.: 53

Sample ID: 23C3284-07

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Seq Error: 23C3284-08

04/12/23 ATP

Autosampler Location: 69

Date Collected: 4/11/2023 4:57:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150722.6	101 %		1.75			1.74%
Y axial	3233156.4	103 %		0.46			0.45%
Ag 328.068†	10.6	0.0001 mg/L	0.00061	0.00061	0.0001 mg/L	0.00061	484.97%
Al 396.153†	37.3	0.0087 mg/L	0.01096	0.0087 mg/L	0.01096	0.01096	126.41%
As 188.979†	-8.0	-0.0013 mg/L	0.00195	-0.0013 mg/L	0.00195	0.00195	153.27%
B 208.889†	884.2	0.0730 mg/L	0.00061	0.0730 mg/L	0.00061	0.00061	0.83%
Ba 233.527†	1714.6	0.0168 mg/L	0.00014	0.0168 mg/L	0.00014	0.00014	0.86%
Be 313.107†	-9.0	-0.0001 mg/L	0.00007	-0.0001 mg/L	0.00007	0.00007	71.07%
Ca 317.933†	135866.5	28.23 mg/L	0.101	28.23 mg/L	0.101	0.101	0.36%
Cd 228.802†	24.7	0.0006 mg/L	0.00013	0.0006 mg/L	0.00013	0.00013	22.17%
Co 228.616†	96.9	0.0016 mg/L	0.00013	0.0016 mg/L	0.00013	0.00013	8.15%
Cr 267.716†	21192.9	0.2849 mg/L	0.00445	0.2849 mg/L	0.00445	0.00445	1.56%
Cu 327.393†	414.3	0.0026 mg/L	0.00016	0.0026 mg/L	0.00016	0.00016	6.25%
Fe 238.204†	5.6	0.0368 mg/L	0.01972	0.0368 mg/L	0.01972	0.01972	53.55%
K 766.490†	6970.4	4.493 mg/L	0.1617	4.493 mg/L	0.1617	0.1617	3.60%
Mg 285.213†	66300.8	7.033 mg/L	0.2298	7.033 mg/L	0.2298	0.2298	3.27%
Mn 257.610†	191.6	0.0325 mg/L	0.00053	0.0325 mg/L	0.00053	0.00053	1.63%
Mo 202.031†	16.3	0.0007 mg/L	0.00022	0.0007 mg/L	0.00022	0.00022	31.22%
Na 589.592†	439501.7	69.40 mg/L	0.350	69.40 mg/L	0.350	0.350	0.50%
Ni 231.604†	30538.3	0.6560 mg/L	0.00828	0.6560 mg/L	0.00828	0.00828	1.26%
Pb 220.353†	9.8	0.0018 mg/L	0.00071	0.0018 mg/L	0.00071	0.00071	39.43%
Sb 206.836†	48.4	0.0084 mg/L	0.00261	0.0084 mg/L	0.00261	0.00261	31.04%
Se 196.026†	5.1	0.0019 mg/L	0.00203	0.0019 mg/L	0.00203	0.00203	105.71%
Sn 189.927†	69.2	0.0102 mg/L	0.00018	0.0102 mg/L	0.00018	0.00018	1.78%
Ti 337.279†	12.1	0.0007 mg/L	0.00051	0.0007 mg/L	0.00051	0.00051	74.84%
Tl 351.924†	-24.4	-0.0057 mg/L	0.00125	-0.0057 mg/L	0.00125	0.00125	21.85%
V 290.880†	1078.8	0.0114 mg/L	0.00061	0.0114 mg/L	0.00061	0.00061	5.34%
Zn 206.200†	1728.6	0.0433 mg/L	0.00145	0.0433 mg/L	0.00145	0.00145	3.34%
Zr 343.823†	29.0	0.0001 mg/L	0.00020	0.0001 mg/L	0.00020	0.00020	194.03%

Sequence No.: 54

Sample ID: 23C3284-08

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Seq Error: B336607-SRM1

04/12/23 ATP

Autosampler Location: 70

Date Collected: 4/11/2023 5:03:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23C3284-08

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145161.4	96.8	%	0.96			0.99%
Y axial	3174188.4	101	%	1.20			1.20%
Ag 328.068†	85.9	0.0010	mg/L	0.00049	0.0010 mg/L	0.00049	48.99%
Al 396.153†	26.5	0.0062	mg/L	0.00969	0.0062 mg/L	0.00969	157.35%
As 188.979†	-8.7	-0.0045	mg/L	0.00177	-0.0045 mg/L	0.00177	39.15%
B 208.889†	182.4	0.0150	mg/L	0.00032	0.0150 mg/L	0.00032	2.12%
Ba 233.527†	1.6	0.0000	mg/L	0.00012	0.0000 mg/L	0.00012	797.52%
Be 313.107†	-29.1	-0.0002	mg/L	0.00009	-0.0002 mg/L	0.00009	51.55%
Ca 317.933†	220.2	0.0457	mg/L	0.00519	0.0457 mg/L	0.00519	11.34%
Cd 228.802†	19.3	0.0004	mg/L	0.00008	0.0004 mg/L	0.00008	18.61%
Co 228.616†	-20.3	-0.0004	mg/L	0.00005	-0.0004 mg/L	0.00005	11.92%
Cr 267.716†	154.3	0.0021	mg/L	0.00027	0.0021 mg/L	0.00027	12.97%
Cu 327.393†	1266.9	0.0080	mg/L	0.00028	0.0080 mg/L	0.00028	3.45%
Fe 238.204†	5.1	0.0485	mg/L	0.03708	0.0485 mg/L	0.03708	76.44%
K 766.490†	115.4	0.0744	mg/L	0.05525	0.0744 mg/L	0.05525	74.26%
Mg 285.213†	84.1	0.0089	mg/L	0.00181	0.0089 mg/L	0.00181	20.22%
Mn 257.610†	-0.1	-0.0000	mg/L	0.00153	-0.0000 mg/L	0.00153	>999.9%
Mo 202.031†	22.1	0.0010	mg/L	0.00048	0.0010 mg/L	0.00048	49.91%
Na 589.592†	648.6	0.1024	mg/L	0.00413	0.1024 mg/L	0.00413	4.03%
Ni 231.604†	8.7	0.0002	mg/L	0.00013	0.0002 mg/L	0.00013	68.81%
Pb 220.353†	163.8	0.0232	mg/L	0.00155	0.0232 mg/L	0.00155	6.69%
Sb 206.836†	11.4	0.0031	mg/L	0.00042	0.0031 mg/L	0.00042	13.57%
Se 196.026†	0.9	0.0004	mg/L	0.00449	0.0004 mg/L	0.00449	>999.9%
Sn 189.927†	286.1	0.0420	mg/L	0.00151	0.0420 mg/L	0.00151	3.60%
Ti 337.279†	13.9	0.0008	mg/L	0.00060	0.0008 mg/L	0.00060	76.63%
Tl 351.924†	26.3	0.0062	mg/L	0.01102	0.0062 mg/L	0.01102	177.37%
V 290.880†	0.8	0.0000	mg/L	0.00013	0.0000 mg/L	0.00013	471.88%
Zn 206.200†	261.6	0.0065	mg/L	0.00023	0.0065 mg/L	0.00023	3.61%
Zr 343.823†	62.1	0.0002	mg/L	0.00009	0.0002 mg/L	0.00009	42.18%

Sequence No.: 55

Sample ID: RINSE

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 7

Date Collected: 4/11/2023 5:10:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	151000.7	101	%	1.24			1.23%
Y axial	3237051.4	103	%	0.52			0.51%
Ag 328.068†	23.2	0.0003	mg/L	0.00049	0.0003 mg/L	0.00049	179.62%
Al 396.153†	-0.6	-0.0002	mg/L	0.00538	-0.0002 mg/L	0.00538	>999.9%
As 188.979†	-2.3	-0.0012	mg/L	0.00155	-0.0012 mg/L	0.00155	129.09%
B 208.889†	73.7	0.0061	mg/L	0.00028	0.0061 mg/L	0.00028	4.55%
Ba 233.527†	-5.5	-0.0001	mg/L	0.00004	-0.0001 mg/L	0.00004	82.38%
Be 313.107†	-25.1	-0.0002	mg/L	0.00006	-0.0002 mg/L	0.00006	38.04%
Ca 317.933†	35.7	0.0074	mg/L	0.00321	0.0074 mg/L	0.00321	43.26%
Cd 228.802†	3.3	0.0001	mg/L	0.00016	0.0001 mg/L	0.00016	208.39%
Co 228.616†	-2.0	-0.0000	mg/L	0.00012	-0.0000 mg/L	0.00012	278.90%
Cr 267.716†	41.6	0.0006	mg/L	0.00015	0.0006 mg/L	0.00015	26.35%
Cu 327.393†	226.6	0.0014	mg/L	0.00049	0.0014 mg/L	0.00049	34.24%
Fe 238.204†	0.3	0.0025	mg/L	0.00454	0.0025 mg/L	0.00454	178.34%
K 766.490†	-12.5	-0.0081	mg/L	0.04358	-0.0081 mg/L	0.04358	538.97%
Mg 285.213†	14.2	0.0015	mg/L	0.00068	0.0015 mg/L	0.00068	44.89%
Mn 257.610†	-1.2	-0.0002	mg/L	0.00135	-0.0002 mg/L	0.00135	661.24%
Mo 202.031†	11.1	0.0005	mg/L	0.00007	0.0005 mg/L	0.00007	14.39%
Na 589.592†	206.5	0.0326	mg/L	0.00500	0.0326 mg/L	0.00500	15.33%
Ni 231.604†	-5.7	-0.0001	mg/L	0.00026	-0.0001 mg/L	0.00026	211.49%
Pb 220.353†	9.6	0.0014	mg/L	0.00125	0.0014 mg/L	0.00125	91.75%
Sb 206.836†	11.6	0.0032	mg/L	0.00142	0.0032 mg/L	0.00142	44.96%
Se 196.026†	-1.7	-0.0007	mg/L	0.00266	-0.0007 mg/L	0.00266	403.24%
Sn 189.927†	6.5	0.0010	mg/L	0.00052	0.0010 mg/L	0.00052	54.23%

Ti 337.279†	14.1	0.0008 mg/L	0.00023	0.0008 mg/L	0.00023	29.45%
Tl 351.924†	8.8	0.0021 mg/L	0.01512	0.0021 mg/L	0.01512	730.02%
V 290.880†	-1.7	-0.0000 mg/L	0.00021	-0.0000 mg/L	0.00021	>999.9%
Zn 206.200†	23.5	0.0006 mg/L	0.00041	0.0006 mg/L	0.00041	71.04%
Zr 343.823†	37.5	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	102.34%

Sequence No.: 56

Sample ID: B336607-SRM1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 71

Date Collected: 4/11/2023 5:16:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-BS1; 04/12/23 ATP

Mean Data: B336607-SRM1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	150610.0	100	%	2.55			2.54%
Y axial	3174859.1	101	%	0.35			0.34%
Ag 328.068†	51309.5	0.6022	mg/L	0.00244	0.6022	mg/L	0.41%
Al 396.153†	261956.1	61.03	mg/L	0.314	61.03	mg/L	0.51%
As 188.979†	2868.3	1.537	mg/L	0.0340	1.537	mg/L	2.21%
B 208.889†	11045.6	0.8201	mg/L	0.00691	0.8201	mg/L	0.84%
Ba 233.527†	295591.3	2.894	mg/L	0.0072	2.894	mg/L	0.25%
Be 313.107†	141938.9	0.8491	mg/L	0.00137	0.8491	mg/L	0.16%
Ca 317.933†	189153.4	39.30	mg/L	0.041	39.30	mg/L	0.10%
Cd 228.802†	119999.4	2.583	mg/L	0.0074	2.583	mg/L	0.29%
Co 228.616†	49303.4	1.037	mg/L	0.0082	1.037	mg/L	0.79%
Cr 267.716†	153405.5	2.064	mg/L	0.0035	2.064	mg/L	0.17%
Cu 327.393†	210359.4	1.339	mg/L	0.0032	1.339	mg/L	0.24%
Fe 238.204†	9497.2	91.24	mg/L	2.447	91.24	mg/L	2.68%
K 766.490†	26733.5	17.23	mg/L	0.486	17.23	mg/L	2.82%
Mg 285.213†	173488.7	18.43	mg/L	0.093	18.43	mg/L	0.51%
Mn 257.610†	20908.2	3.542	mg/L	0.0995	3.542	mg/L	2.81%
Mo 202.031†	40553.8	1.771	mg/L	0.0101	1.771	mg/L	0.57%
Na 589.592†	24221.5	3.825	mg/L	0.1083	3.825	mg/L	2.83%
Ni 231.604†	89222.0	1.916	mg/L	0.0062	1.916	mg/L	0.32%
Pb 220.353†	14838.7	2.108	mg/L	0.0099	2.108	mg/L	0.47%
Sb 206.836†	3256.5	0.8405	mg/L	0.01112	0.8405	mg/L	1.32%
Se 196.026†	5327.5	2.031	mg/L	0.0409	2.031	mg/L	2.01%
Sn 189.927†	8127.4	1.210	mg/L	0.0088	1.210	mg/L	0.73%
Ti 337.279†	57583.1	3.249	mg/L	0.0859	3.249	mg/L	2.64%
Tl 351.924†	4285.5	1.051	mg/L	0.0069	1.051	mg/L	0.66%
V 290.880†	167486.3	2.143	mg/L	0.0058	2.143	mg/L	0.27%
Zn 206.200†	80185.3	1.978	mg/L	0.0067	1.978	mg/L	0.34%
Zr 343.823†	15853.3	0.0540	mg/L	0.00059	0.0540	mg/L	1.09%

Sequence No.: 57

Sample ID: B336607-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 72

Date Collected: 4/11/2023 5:22:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-BSD1; 04/12/23 ATP

Mean Data: B336607-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	149772.3	99.9	%	1.10			1.10%
Y axial	3156996.0	100	%	0.22			0.22%
Ag 328.068†	51749.0	0.6073	mg/L	0.00493	0.6073	mg/L	0.81%
Al 396.153†	271278.7	63.21	mg/L	0.181	63.21	mg/L	0.29%
As 188.979†	2799.7	1.500	mg/L	0.0025	1.500	mg/L	0.17%
B 208.889†	10473.1	0.7777	mg/L	0.00293	0.7777	mg/L	0.38%
Ba 233.527†	285183.8	2.792	mg/L	0.0027	2.792	mg/L	0.10%
Be 313.107†	126970.2	0.7593	mg/L	0.00160	0.7593	mg/L	0.21%
Ca 317.933†	187332.0	38.92	mg/L	0.115	38.92	mg/L	0.30%
Cd 228.802†	102598.0	2.207	mg/L	0.0013	2.207	mg/L	0.06%

Co 228.616†	43476.6	0.9134 mg/L	0.00115	0.9134 mg/L	0.00115	0.13%
Cr 267.716†	140180.3	1.886 mg/L	0.0034	1.886 mg/L	0.0034	0.18%
Cu 327.393†	200484.8	1.276 mg/L	0.0027	1.276 mg/L	0.0027	0.21%
Fe 238.204†	9847.0	94.60 mg/L	1.253	94.60 mg/L	1.253	1.32%
K 766.490†	27893.6	17.98 mg/L	0.300	17.98 mg/L	0.300	1.67%
Mg 285.213†	178877.6	19.00 mg/L	0.029	19.00 mg/L	0.029	0.15%
Mn 257.610†	20152.5	3.414 mg/L	0.0366	3.414 mg/L	0.0366	1.07%
Mo 202.031†	38417.8	1.678 mg/L	0.0058	1.678 mg/L	0.0058	0.34%
Na 589.592†	24528.8	3.873 mg/L	0.0084	3.873 mg/L	0.0084	0.22%
Ni 231.604†	76830.7	1.650 mg/L	0.0020	1.650 mg/L	0.0020	0.12%
Pb 220.353†	15000.2	2.130 mg/L	0.0057	2.130 mg/L	0.0057	0.27%
Sb 206.836†	3070.5	0.7916 mg/L	0.00046	0.7916 mg/L	0.00046	0.06%
Se 196.026†	4973.9	1.896 mg/L	0.0123	1.896 mg/L	0.0123	0.65%
Sn 189.927†	8257.4	1.230 mg/L	0.0010	1.230 mg/L	0.0010	0.08%
Ti 337.279†	60407.9	3.408 mg/L	0.0409	3.408 mg/L	0.0409	1.20%
Tl 351.924†	4070.3	1.003 mg/L	0.0042	1.003 mg/L	0.0042	0.42%
V 290.880†	155915.3	1.994 mg/L	0.0046	1.994 mg/L	0.0046	0.23%
Zn 206.200†	78690.1	1.940 mg/L	0.0035	1.940 mg/L	0.0035	0.18%
Zr 343.823†	15679.6	0.0533 mg/L	0.00027	0.0533 mg/L	0.00027	0.50%

Sequence No.: 58

Sample ID: B336607-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 73

Date Collected: 4/11/2023 5:29:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-MS1; 04/12/23 ATP

Mean Data: B336607-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147255.9	98.2 %	1.55			1.58%
Y axial	2888256.9	91.6 %	0.29			0.31%
Ag 328.068†	42827.2	0.5017 mg/L	0.00180	0.5017 mg/L	0.00180	0.36%
Al 396.153†	906237.0	211.3 mg/L	3.63	211.3 mg/L	3.63	1.72%
As 188.979†	966.3	0.5758 mg/L	0.00383	0.5758 mg/L	0.00383	0.67%
B 208.889†	11346.6	0.9139 mg/L	0.00320	0.9139 mg/L	0.00320	0.35%
Ba 233.527†	163026.0	1.597 mg/L	0.0010	1.597 mg/L	0.0010	0.06%
Be 313.107†	79454.5	0.4749 mg/L	0.00145	0.4749 mg/L	0.00145	0.31%
Ca 317.933†	4356297.7	905.1 mg/L	15.14	905.1 mg/L	15.14	1.67%
Cd 228.802†	21944.4	0.4724 mg/L	0.00055	0.4724 mg/L	0.00055	0.12%
Co 228.616†	25822.2	0.5172 mg/L	0.00150	0.5172 mg/L	0.00150	0.29%
Cr 267.716†	62595.1	0.8463 mg/L	0.00098	0.8463 mg/L	0.00098	0.12%
Cu 327.393†	262691.8	1.686 mg/L	0.0035	1.686 mg/L	0.0035	0.20%
Fe 238.204†	30918.5	296.8 mg/L	1.20	296.8 mg/L	1.20	0.41%
K 766.490†	41676.3	26.86 mg/L	0.084	26.86 mg/L	0.084	0.31%
Mg 285.213†	924680.1	98.18 mg/L	1.669	98.18 mg/L	1.669	1.70%
Mn 257.610†	42395.3	7.182 mg/L	0.0146	7.182 mg/L	0.0146	0.20%
Mo 202.031†	10448.9	0.4564 mg/L	0.00089	0.4564 mg/L	0.00089	0.19%
Na 589.592†	72404.8	11.43 mg/L	0.030	11.43 mg/L	0.030	0.26%
Ni 231.604†	32331.8	0.6941 mg/L	0.00099	0.6941 mg/L	0.00099	0.14%
Pb 220.353†	9796.7	1.405 mg/L	0.0038	1.405 mg/L	0.0038	0.27%
Sb 206.836†	749.5	0.1289 mg/L	0.00208	0.1289 mg/L	0.00208	1.61%
Se 196.026†	1171.6	0.4460 mg/L	0.00214	0.4460 mg/L	0.00214	0.48%
Sn 189.927†	2918.9	0.5094 mg/L	0.00098	0.5094 mg/L	0.00098	0.19%
Ti 337.279†	273648.2	15.44 mg/L	0.031	15.44 mg/L	0.031	0.20%
Tl 351.924†	1956.0	0.6016 mg/L	0.00226	0.6016 mg/L	0.00226	0.38%
V 290.880†	107538.2	1.302 mg/L	0.0015	1.302 mg/L	0.0015	0.11%
Zn 206.200†	112193.4	2.734 mg/L	0.0039	2.734 mg/L	0.0039	0.14%
Zr 343.823†	78682.0	0.2724 mg/L	0.00033	0.2724 mg/L	0.00033	0.12%

Sequence No.: 59

Sample ID: B336607-MS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 74

Date Collected: 4/11/2023 5:36:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Seq Error: B336607-DUP1; 04/12/23 ATP

Mean Data: B336607-MS1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147632.5	98.5 %	1.00			1.02%
Y axial	2878096.7	91.3 %	0.22			0.24%
Ag 328.068†	-1339.9	-0.0165 mg/L	0.00086	-0.0165 mg/L	0.00086	5.20%
Al 396.153†	858106.8	200.1 mg/L	0.28	200.1 mg/L	0.28	0.14%
As 188.979†	150.3	0.1385 mg/L	0.00055	0.1385 mg/L	0.00055	0.40%
B 208.889†	1426.4	0.1171 mg/L	0.00132	0.1171 mg/L	0.00132	1.12%
Ba 233.527†	167363.1	1.638 mg/L	0.0018	1.638 mg/L	0.0018	0.11%
Be 313.107†	2399.0	0.0122 mg/L	0.00027	0.0122 mg/L	0.00027	2.23%
Ca 317.933†	4452477.2	925.1 mg/L	0.31	925.1 mg/L	0.31	0.03%
Cd 228.802†	203.3	0.0045 mg/L	0.00029	0.0045 mg/L	0.00029	6.39%
Co 228.616†	6472.5	0.1142 mg/L	0.00028	0.1142 mg/L	0.00028	0.25%
Cr 267.716†	27293.6	0.3713 mg/L	0.00065	0.3713 mg/L	0.00065	0.17%
Cu 327.393†	119570.0	0.7754 mg/L	0.00199	0.7754 mg/L	0.00199	0.26%
Fe 238.204†	29290.3	281.2 mg/L	5.29	281.2 mg/L	5.29	1.88%
K 766.490†	34880.6	22.48 mg/L	0.510	22.48 mg/L	0.510	2.27%
Mg 285.213†	837996.2	88.98 mg/L	0.181	88.98 mg/L	0.181	0.20%
Mn 257.610†	39676.9	6.722 mg/L	0.1312	6.722 mg/L	0.1312	1.95%
Mo 202.031†	363.9	0.0159 mg/L	0.00042	0.0159 mg/L	0.00042	2.63%
Na 589.592†	46393.3	7.326 mg/L	0.0178	7.326 mg/L	0.0178	0.24%
Ni 231.604†	12358.5	0.2656 mg/L	0.00072	0.2656 mg/L	0.00072	0.27%
Pb 220.353†	15274.2	2.179 mg/L	0.0023	2.179 mg/L	0.0023	0.11%
Sb 206.836†	244.8	0.0034 mg/L	0.00141	0.0034 mg/L	0.00141	40.99%
Se 196.026†	10.0	0.0033 mg/L	0.00420	0.0033 mg/L	0.00420	126.28%
Sn 189.927†	411.4	0.1222 mg/L	0.00270	0.1222 mg/L	0.00270	2.21%
Ti 337.279†	209023.4	11.79 mg/L	0.015	11.79 mg/L	0.015	0.13%
Tl 351.924†	-651.4	-0.0050 mg/L	0.00161	-0.0050 mg/L	0.00161	32.23%
V 290.880†	64430.7	0.7512 mg/L	0.00093	0.7512 mg/L	0.00093	0.12%
Zn 206.200†	82771.6	2.008 mg/L	0.0077	2.008 mg/L	0.0077	0.38%
Zr 343.823†	69587.5	0.2404 mg/L	0.00095	0.2404 mg/L	0.00095	0.40%

Sequence No.: 60

Sample ID: B336607-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 75

Date Collected: 4/11/2023 5:42:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336607-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145378.4	97.0 %	1.70			1.75%
Y axial	2873006.5	91.1 %	1.02			1.12%
Ag 328.068†	-1355.4	-0.0166 mg/L	0.00075	-0.0166 mg/L	0.00075	4.54%
Al 396.153†	876415.0	204.4 mg/L	0.82	204.4 mg/L	0.82	0.40%
As 188.979†	138.0	0.1339 mg/L	0.00330	0.1339 mg/L	0.00330	2.46%
B 208.889†	1305.6	0.1072 mg/L	0.00299	0.1072 mg/L	0.00299	2.79%
Ba 233.527†	111721.2	1.094 mg/L	0.0021	1.094 mg/L	0.0021	0.19%
Be 313.107†	2436.2	0.0124 mg/L	0.00016	0.0124 mg/L	0.00016	1.30%
Ca 317.933†	4310205.6	895.5 mg/L	0.47	895.5 mg/L	0.47	0.05%
Cd 228.802†	213.8	0.0047 mg/L	0.00049	0.0047 mg/L	0.00049	10.46%
Co 228.616†	6120.0	0.1072 mg/L	0.00183	0.1072 mg/L	0.00183	1.70%
Cr 267.716†	27211.9	0.3704 mg/L	0.00472	0.3704 mg/L	0.00472	1.27%
Cu 327.393†	116768.8	0.7579 mg/L	0.00311	0.7579 mg/L	0.00311	0.41%
Fe 238.204†	30703.8	294.8 mg/L	7.99	294.8 mg/L	7.99	2.71%
K 766.490†	35488.5	22.88 mg/L	0.623	22.88 mg/L	0.623	2.72%
Mg 285.213†	849815.9	90.24 mg/L	0.603	90.24 mg/L	0.603	0.67%
Mn 257.610†	41717.4	7.067 mg/L	0.1739	7.067 mg/L	0.1739	2.46%
Mo 202.031†	329.2	0.0144 mg/L	0.00106	0.0144 mg/L	0.00106	7.38%
Na 589.592†	45052.8	7.114 mg/L	0.0136	7.114 mg/L	0.0136	0.19%
Ni 231.604†	12390.8	0.2663 mg/L	0.00375	0.2663 mg/L	0.00375	1.41%
Pb 220.353†	6938.8	0.9981 mg/L	0.01210	0.9981 mg/L	0.01210	1.21%
Sb 206.836†	250.6	0.0033 mg/L	0.00331	0.0033 mg/L	0.00331	101.48%
Se 196.026†	17.9	0.0064 mg/L	0.00618	0.0064 mg/L	0.00618	97.25%
Sn 189.927†	401.6	0.1205 mg/L	0.00225	0.1205 mg/L	0.00225	1.87%

Ti 337.279†	207872.2	11.73 mg/L	0.023	11.73 mg/L	0.023	0.20%
Tl 351.924†	-737.6	-0.0153 mg/L	0.00928	-0.0153 mg/L	0.00928	60.50%
V 290.880†	65168.4	0.7584 mg/L	0.00210	0.7584 mg/L	0.00210	0.28%
Zn 206.200†	76049.9	1.842 mg/L	0.0072	1.842 mg/L	0.0072	0.39%
Zr 343.823†	65523.9	0.2255 mg/L	0.00092	0.2255 mg/L	0.00092	0.41%

Sequence No.: 61

Sample ID: 23D0873-01

Analyst:

Initial Sample Wt: Empty Position; 04/12/23 ATP

Dilution:

Wash Time (before sample): 220

Autosampler Location: 76

Date Collected: 4/11/2023 5:49:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 23D0873-01

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	276977.3	185 %	0.66			0.36%
Internal Standard Check greater than the upper limit for Y radial. Recovery = 184.8%						
Y axial	628477.4	199 %	9.10			4.57%
Internal Standard Check greater than the upper limit for Y axial. Recovery = 199.3%						
Ag 328.068†	-42.0	-0.0005 mg/L	0.00012	-0.0005 mg/L	0.00012	23.85%
Al 396.153†	-25.1	-0.0059 mg/L	0.00106	-0.0059 mg/L	0.00106	18.04%
As 188.979†	23.9	0.0125 mg/L	0.00095	0.0125 mg/L	0.00095	7.62%
B 208.889†	-86.8	-0.0072 mg/L	0.00043	-0.0072 mg/L	0.00043	5.93%
Ba 233.527†	166.8	0.0016 mg/L	0.00009	0.0016 mg/L	0.00009	5.57%
Be 313.107†	-633.3	-0.0038 mg/L	0.00006	-0.0038 mg/L	0.00006	1.61%
Ca 317.933†	74.8	0.0156 mg/L	0.00230	0.0156 mg/L	0.00230	14.76%
Cd 228.802†	-57.4	-0.0013 mg/L	0.00012	-0.0013 mg/L	0.00012	8.79%
Co 228.616†	-4.1	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	142.42%
Cr 267.716†	-107.5	-0.0015 mg/L	0.00002	-0.0015 mg/L	0.00002	1.36%
Cu 327.393†	211.7	0.0013 mg/L	0.00008	0.0013 mg/L	0.00008	5.86%
Fe 238.204†	-12.4	-0.1190 mg/L	0.00516	-0.1190 mg/L	0.00516	4.34%
K 766.490†	-158.0	-0.1018 mg/L	0.01850	-0.1018 mg/L	0.01850	18.16%
Mg 285.213†	-50.9	-0.0054 mg/L	0.00027	-0.0054 mg/L	0.00027	4.91%
Mn 257.610†	56.2	0.0095 mg/L	0.00013	0.0095 mg/L	0.00013	1.39%
Mo 202.031†	8.4	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	21.96%
Na 589.592†	-210.7	-0.0333 mg/L	0.00484	-0.0333 mg/L	0.00484	14.54%
Ni 231.604†	-40.9	-0.0009 mg/L	0.00008	-0.0009 mg/L	0.00008	8.64%
Pb 220.353†	1.6	0.0002 mg/L	0.00146	0.0002 mg/L	0.00146	618.96%
Sb 206.836†	-68.2	-0.0187 mg/L	0.00174	-0.0187 mg/L	0.00174	9.31%
Se 196.026†	12.6	0.0048 mg/L	0.00055	0.0048 mg/L	0.00055	11.40%
Sn 189.927†	-30.4	-0.0044 mg/L	0.00005	-0.0044 mg/L	0.00005	1.10%
Ti 337.279†	77.5	0.0044 mg/L	0.00035	0.0044 mg/L	0.00035	7.99%
Tl 351.924†	-31.8	-0.0075 mg/L	0.00255	-0.0075 mg/L	0.00255	33.82%
V 290.880†	-800.7	-0.0101 mg/L	0.00019	-0.0101 mg/L	0.00019	1.84%
Zn 206.200†	184.9	0.0046 mg/L	0.00007	0.0046 mg/L	0.00007	1.56%
Zr 343.823†	5.7	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	179.47%
Internal Standard Check failed. Continue with analysis.						

Sequence No.: 62

Sample ID: SEQ-IFA @2211113

Analyst:

Initial Sample Wt: Mg failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 110

Autosampler Location: 11

Date Collected: 4/11/2023 5:55:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFA @2211113

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	146562.1	97.8 %	0.33			0.34%
Y axial	3012344.4	95.5 %	0.34			0.36%
Ag 328.068†	-284.9	-0.0033 mg/L	0.00081	-0.0033 mg/L	0.00081	24.14%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	990432.2	231.0 mg/L	0.98	231.0 mg/L	0.98	0.42%
QC value within limits for Al 396.153 Recovery = 92.38%						
As 188.979†	-49.1	-0.0055 mg/L	0.00607	-0.0055 mg/L	0.00607	109.52%

QC value within limits for As 188.979	Recovery = Not calculated						
B 208.889†	33.1	0.0035 mg/L	0.00121	0.0035 mg/L	0.00121	35.01%	
QC value within limits for B 208.889	Recovery = Not calculated						
Ba 233.527†	350.6	0.0035 mg/L	0.00012	0.0035 mg/L	0.00012	3.45%	
QC value within limits for Ba 233.527	Recovery = Not calculated						
Be 313.107†	13.8	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	35.80%	
QC value within limits for Be 313.107	Recovery = Not calculated						
Ca 317.933†	1054384.8	219.1 mg/L	1.27	219.1 mg/L	1.27	0.58%	
QC value within limits for Ca 317.933	Recovery = 87.63%						
Cd 228.802†	-5.7	0.0000 mg/L	0.00031	0.0000 mg/L	0.00031	>999.9%	
QC value within limits for Cd 228.802	Recovery = Not calculated						
Co 228.616†	24.4	0.0005 mg/L	0.00040	0.0005 mg/L	0.00040	80.94%	
QC value within limits for Co 228.616	Recovery = Not calculated						
Cr 267.716†	-160.2	-0.0005 mg/L	0.00022	-0.0005 mg/L	0.00022	48.28%	
QC value within limits for Cr 267.716	Recovery = Not calculated						
Cu 327.393†	-471.2	-0.0009 mg/L	0.00026	-0.0009 mg/L	0.00026	29.53%	
QC value within limits for Cu 327.393	Recovery = Not calculated						
Fe 238.204†	8985.9	86.19 mg/L	0.566	86.19 mg/L	0.566	0.66%	
QC value within limits for Fe 238.204	Recovery = 86.19%						
K 766.490†	100.7	0.0649 mg/L	0.00553	0.0649 mg/L	0.00553	8.52%	
QC value within limits for K 766.490	Recovery = Not calculated						
Mg 285.213†	1824502.8	193.6 mg/L	0.55	193.6 mg/L	0.55	0.28%	
QC value less than the lower limit for Mg 285.213	Recovery = 77.43%						
Mn 257.610†	40.0	0.0068 mg/L	0.00004	0.0068 mg/L	0.00004	0.58%	
QC value within limits for Mn 257.610	Recovery = Not calculated						
Mo 202.031†	-318.0	-0.0139 mg/L	0.00064	-0.0139 mg/L	0.00064	4.58%	
QC value within limits for Mo 202.031	Recovery = Not calculated						
Na 589.592†	537.3	0.0849 mg/L	0.00626	0.0849 mg/L	0.00626	7.38%	
QC value within limits for Na 589.592	Recovery = Not calculated						
Ni 231.604†	-24.0	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	23.91%	
QC value within limits for Ni 231.604	Recovery = Not calculated						
Pb 220.353†	-154.7	-0.0012 mg/L	0.00292	-0.0012 mg/L	0.00292	253.76%	
QC value within limits for Pb 220.353	Recovery = Not calculated						
Sb 206.836†	143.9	0.0020 mg/L	0.00298	0.0020 mg/L	0.00298	151.48%	
QC value within limits for Sb 206.836	Recovery = Not calculated						
Se 196.026†	32.2	0.0122 mg/L	0.00900	0.0122 mg/L	0.00900	73.51%	
QC value within limits for Se 196.026	Recovery = Not calculated						
Sn 189.927†	-24.3	-0.0036 mg/L	0.00138	-0.0036 mg/L	0.00138	38.60%	
QC value within limits for Sn 189.927	Recovery = Not calculated						
Ti 337.279†	9.2	0.0005 mg/L	0.00090	0.0005 mg/L	0.00090	173.76%	
QC value within limits for Ti 337.279	Recovery = Not calculated						
Tl 351.924†	-465.9	-0.0484 mg/L	0.00262	-0.0484 mg/L	0.00262	5.42%	
QC value within limits for Tl 351.924	Recovery = Not calculated						
V 290.880†	5832.5	0.0009 mg/L	0.00070	0.0009 mg/L	0.00070	74.89%	
QC value within limits for V 290.880	Recovery = Not calculated						
Zn 206.200†	-148.5	-0.0065 mg/L	0.00008	-0.0065 mg/L	0.00008	1.16%	
QC value within limits for Zn 206.200	Recovery = Not calculated						
Zr 343.823†	772.2	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.39%	
QC Failed. Continue with analysis.							

Sequence No.: 63

Sample ID: SEQ-IFB @2211114

Analyst:

Initial Sample Wt: Mg failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/11/2023 6:01:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB @2211114

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141955.7	94.7 %		2.05			2.17%
Y axial	2841545.0	90.1 %		1.03			1.14%
Ag 328.068†	35739.0	0.4195 mg/L		0.01094	0.4195 mg/L	0.01094	2.61%
QC value within limits for Ag 328.068	Recovery = 104.87%						
Al 396.153†	1022593.9	238.5 mg/L		5.49	238.5 mg/L	5.49	2.30%
QC value within limits for Al 396.153	Recovery = 95.38%						
As 188.979†	279.6	0.1770 mg/L		0.00027	0.1770 mg/L	0.00027	0.15%
QC value within limits for As 188.979	Recovery = 88.51%						

B 208.889†	51.2	0.0050 mg/L	0.00105	0.0050 mg/L	0.00105	20.82%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	99039.1	0.9701 mg/L	0.00094	0.9701 mg/L	0.00094	0.10%
QC value within limits for Ba 233.527 Recovery = 97.01%						
Be 313.107†	153715.1	0.9231 mg/L	0.02236	0.9231 mg/L	0.02236	2.42%
QC value within limits for Be 313.107 Recovery = 92.31%						
Ca 317.933†	1084274.2	225.3 mg/L	5.30	225.3 mg/L	5.30	2.35%
QC value within limits for Ca 317.933 Recovery = 90.11%						
Cd 228.802†	91810.4	1.982 mg/L	0.0039	1.982 mg/L	0.0039	0.20%
QC value within limits for Cd 228.802 Recovery = 99.11%						
Co 228.616†	41379.8	0.8733 mg/L	0.00877	0.8733 mg/L	0.00877	1.00%
QC value within limits for Co 228.616 Recovery = 87.33%						
Cr 267.716†	70027.1	0.9434 mg/L	0.00171	0.9434 mg/L	0.00171	0.18%
QC value within limits for Cr 267.716 Recovery = 94.34%						
Cu 327.393†	151883.6	0.9640 mg/L	0.00355	0.9640 mg/L	0.00355	0.37%
QC value within limits for Cu 327.393 Recovery = 96.40%						
Fe 238.204†	9197.1	88.23 mg/L	2.349	88.23 mg/L	2.349	2.66%
QC value within limits for Fe 238.204 Recovery = 88.23%						
K 766.490†	79.8	0.0514 mg/L	0.00755	0.0514 mg/L	0.00755	14.68%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1884091.9	199.9 mg/L	4.21	199.9 mg/L	4.21	2.10%
QC value less than the lower limit for Mg 285.213 Recovery = 79.95%						
Mn 257.610†	5352.0	0.9067 mg/L	0.02300	0.9067 mg/L	0.02300	2.54%
QC value within limits for Mn 257.610 Recovery = 90.67%						
Mo 202.031†	-348.3	-0.0152 mg/L	0.00034	-0.0152 mg/L	0.00034	2.21%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	665.3	0.1051 mg/L	0.00261	0.1051 mg/L	0.00261	2.49%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	82232.3	1.766 mg/L	0.0021	1.766 mg/L	0.0021	0.12%
QC value within limits for Ni 231.604 Recovery = 88.31%						
Pb 220.353†	478.4	0.0887 mg/L	0.00289	0.0887 mg/L	0.00289	3.26%
QC value within limits for Pb 220.353 Recovery = 88.68%						
Sb 206.836†	3918.6	1.026 mg/L	0.0107	1.026 mg/L	0.0107	1.04%
QC value within limits for Sb 206.836 Recovery = 85.48%						
Se 196.026†	299.0	0.1131 mg/L	0.00357	0.1131 mg/L	0.00357	3.16%
QC value within limits for Se 196.026 Recovery = 113.08%						
Sn 189.927†	-16.7	-0.0024 mg/L	0.00480	-0.0024 mg/L	0.00480	196.07%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	8.4	0.0005 mg/L	0.00031	0.0005 mg/L	0.00031	66.87%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	598.6	0.2000 mg/L	0.00555	0.2000 mg/L	0.00555	2.78%
QC value within limits for Tl 351.924 Recovery = 100.01%						
V 290.880†	82913.2	0.9713 mg/L	0.00315	0.9713 mg/L	0.00315	0.32%
QC value within limits for V 290.880 Recovery = 97.13%						
Zn 206.200†	74401.2	1.835 mg/L	0.0008	1.835 mg/L	0.0008	0.04%
QC value within limits for Zn 206.200 Recovery = 91.74%						
Zr 343.823†	844.6	0.0006 mg/L	0.00017	0.0006 mg/L	0.00017	29.03%
QC Failed. Continue with analysis.						

Sequence No.: 64

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 6:09:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	150395.3	100 %	1.08			1.08%
Y axial	3134934.6	99.4 %	2.24			2.25%
Ag 328.068†	169282.6	1.970 mg/L	0.0199	1.970 mg/L	0.0199	1.01%
QC value less than the lower limit for Ag 328.068 Recovery = 78.79%						
Al 396.153†	40835.3	9.336 mg/L	0.0956	9.336 mg/L	0.0956	1.02%
QC value within limits for Al 396.153 Recovery = 93.36%						
As 188.979†	8914.8	4.713 mg/L	0.1503	4.713 mg/L	0.1503	3.19%
QC value within limits for As 188.979 Recovery = 94.26%						
B 208.889†	56069.2	4.383 mg/L	0.1416	4.383 mg/L	0.1416	3.23%

QC value less than the lower limit for B 208.889		Recovery = 87.66%				
Ba 233.527†	494144.1	4.840 mg/L	0.1438	4.840 mg/L	0.1438	2.97%
QC value within limits for Ba 233.527		Recovery = 96.80%				
Be 313.107†	764470.4	4.596 mg/L	0.0370	4.596 mg/L	0.0370	0.80%
QC value within limits for Be 313.107		Recovery = 91.93%				
Ca 317.933†	45031.8	9.356 mg/L	0.0838	9.356 mg/L	0.0838	0.90%
QC value within limits for Ca 317.933		Recovery = 93.56%				
Cd 228.802†	222582.8	4.792 mg/L	0.1439	4.792 mg/L	0.1439	3.00%
QC value within limits for Cd 228.802		Recovery = 95.84%				
Co 228.616†	226244.5	4.778 mg/L	0.1415	4.778 mg/L	0.1415	2.96%
QC value within limits for Co 228.616		Recovery = 95.57%				
Cr 267.716†	358094.9	4.815 mg/L	0.1462	4.815 mg/L	0.1462	3.04%
QC value within limits for Cr 267.716		Recovery = 96.31%				
Cu 327.393†	742124.8	4.716 mg/L	0.1438	4.716 mg/L	0.1438	3.05%
QC value within limits for Cu 327.393		Recovery = 94.31%				
Fe 238.204†	457.2	4.413 mg/L	0.0499	4.413 mg/L	0.0499	1.13%
QC value less than the lower limit for Fe 238.204		Recovery = 88.26%				
K 766.490†	14834.0	9.562 mg/L	0.1470	9.562 mg/L	0.1470	1.54%
QC value within limits for K 766.490		Recovery = 95.62%				
Mg 285.213†	90238.1	9.470 mg/L	0.0944	9.470 mg/L	0.0944	1.00%
QC value within limits for Mg 285.213		Recovery = 94.70%				
Mn 257.610†	27306.4	4.626 mg/L	0.0301	4.626 mg/L	0.0301	0.65%
QC value within limits for Mn 257.610		Recovery = 92.52%				
Mo 202.031†	109662.4	4.790 mg/L	0.1414	4.790 mg/L	0.1414	2.95%
QC value within limits for Mo 202.031		Recovery = 95.80%				
Na 589.592†	61420.7	9.699 mg/L	0.0816	9.699 mg/L	0.0816	0.84%
QC value within limits for Na 589.592		Recovery = 96.99%				
Ni 231.604†	223884.5	4.807 mg/L	0.1476	4.807 mg/L	0.1476	3.07%
QC value within limits for Ni 231.604		Recovery = 96.14%				
Pb 220.353†	34091.6	4.841 mg/L	0.1449	4.841 mg/L	0.1449	2.99%
QC value within limits for Pb 220.353		Recovery = 96.82%				
Sb 206.836†	17096.5	4.609 mg/L	0.1460	4.609 mg/L	0.1460	3.17%
QC value within limits for Sb 206.836		Recovery = 92.18%				
Se 196.026†	12255.8	4.670 mg/L	0.1527	4.670 mg/L	0.1527	3.27%
QC value within limits for Se 196.026		Recovery = 93.41%				
Sn 189.927†	33015.0	4.871 mg/L	0.1644	4.871 mg/L	0.1644	3.37%
QC value within limits for Sn 189.927		Recovery = 97.41%				
Ti 337.279†	82688.2	4.663 mg/L	0.0379	4.663 mg/L	0.0379	0.81%
QC value within limits for Ti 337.279		Recovery = 93.26%				
Tl 351.924†	13018.5	3.029 mg/L	0.0910	3.029 mg/L	0.0910	3.01%
QC value greater than the upper limit for Tl 351.924		Recovery = 121.15%				
V 290.880†	383781.2	4.965 mg/L	0.1552	4.965 mg/L	0.1552	3.13%
QC value within limits for V 290.880		Recovery = 99.29%				
Zn 206.200†	199004.8	4.924 mg/L	0.1469	4.924 mg/L	0.1469	2.98%
QC value within limits for Zn 206.200		Recovery = 98.48%				
Zr 343.823†	1346324.7	4.800 mg/L	0.1460	4.800 mg/L	0.1460	3.04%
QC Failed. Retry.						

Sequence No.: 65
Sample ID: SEQ-CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 220

Autosampler Location: 5
Date Collected: 4/11/2023 6:12:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Ag, B, Tl failed; 04/12/23 ATP

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	148339.5	99.0 %	0.46			0.47%
Y axial	3148197.8	99.8 %	1.30			1.30%
Ag 328.068†	168115.8	1.956 mg/L	0.0309	1.956 mg/L	0.0309	1.58%
QC value less than the lower limit for Ag 328.068		Recovery = 78.24%				
Al 396.153†	41417.4	9.471 mg/L	0.0044	9.471 mg/L	0.0044	0.05%
QC value within limits for Al 396.153		Recovery = 94.71%				
As 188.979†	8915.3	4.713 mg/L	0.0671	4.713 mg/L	0.0671	1.42%
QC value within limits for As 188.979		Recovery = 94.27%				
B 208.889†	56258.8	4.398 mg/L	0.0623	4.398 mg/L	0.0623	1.42%
QC value less than the lower limit for B 208.889		Recovery = 87.96%				

Ba 233.527†	494526.5	4.844 mg/L	0.0022	4.844 mg/L	0.0022	0.05%
QC value within limits for Ba 233.527		Recovery = 96.87%				
Be 313.107†	777298.7	4.674 mg/L	0.0087	4.674 mg/L	0.0087	0.19%
QC value within limits for Be 313.107		Recovery = 93.47%				
Ca 317.933†	45640.0	9.483 mg/L	0.0288	9.483 mg/L	0.0288	0.30%
QC value within limits for Ca 317.933		Recovery = 94.83%				
Cd 228.802†	222833.8	4.797 mg/L	0.0059	4.797 mg/L	0.0059	0.12%
QC value within limits for Cd 228.802		Recovery = 95.95%				
Co 228.616†	226666.4	4.787 mg/L	0.0062	4.787 mg/L	0.0062	0.13%
QC value within limits for Co 228.616		Recovery = 95.74%				
Cr 267.716†	358616.2	4.822 mg/L	0.0035	4.822 mg/L	0.0035	0.07%
QC value within limits for Cr 267.716		Recovery = 96.45%				
Cu 327.393†	743528.4	4.725 mg/L	0.0057	4.725 mg/L	0.0057	0.12%
QC value within limits for Cu 327.393		Recovery = 94.49%				
Fe 238.204†	469.2	4.528 mg/L	0.0266	4.528 mg/L	0.0266	0.59%
QC value within limits for Fe 238.204		Recovery = 90.57%				
K 766.490†	15051.2	9.702 mg/L	0.0229	9.702 mg/L	0.0229	0.24%
QC value within limits for K 766.490		Recovery = 97.02%				
Mg 285.213†	91467.8	9.600 mg/L	0.0346	9.600 mg/L	0.0346	0.36%
QC value within limits for Mg 285.213		Recovery = 96.00%				
Mn 257.610†	27858.4	4.720 mg/L	0.0177	4.720 mg/L	0.0177	0.38%
QC value within limits for Mn 257.610		Recovery = 94.39%				
Mo 202.031†	109902.5	4.800 mg/L	0.0038	4.800 mg/L	0.0038	0.08%
QC value within limits for Mo 202.031		Recovery = 96.01%				
Na 589.592†	62387.5	9.852 mg/L	0.0153	9.852 mg/L	0.0153	0.16%
QC value within limits for Na 589.592		Recovery = 98.52%				
Ni 231.604†	223983.6	4.809 mg/L	0.0082	4.809 mg/L	0.0082	0.17%
QC value within limits for Ni 231.604		Recovery = 96.19%				
Pb 220.353†	33976.0	4.825 mg/L	0.0677	4.825 mg/L	0.0677	1.40%
QC value within limits for Pb 220.353		Recovery = 96.50%				
Sb 206.836†	17084.0	4.605 mg/L	0.0699	4.605 mg/L	0.0699	1.52%
QC value within limits for Sb 206.836		Recovery = 92.11%				
Se 196.026†	12200.0	4.649 mg/L	0.0773	4.649 mg/L	0.0773	1.66%
QC value within limits for Se 196.026		Recovery = 92.98%				
Sn 189.927†	32925.1	4.858 mg/L	0.0804	4.858 mg/L	0.0804	1.65%
QC value within limits for Sn 189.927		Recovery = 97.16%				
Ti 337.279†	83832.2	4.728 mg/L	0.0084	4.728 mg/L	0.0084	0.18%
QC value within limits for Ti 337.279		Recovery = 94.55%				
Tl 351.924†	12959.6	3.015 mg/L	0.0449	3.015 mg/L	0.0449	1.49%
QC value greater than the upper limit for Tl 351.924		Recovery = 120.59%				
V 290.880†	382875.0	4.953 mg/L	0.0038	4.953 mg/L	0.0038	0.08%
QC value within limits for V 290.880		Recovery = 99.07%				
Zn 206.200†	199194.4	4.928 mg/L	0.0053	4.928 mg/L	0.0053	0.11%
QC value within limits for Zn 206.200		Recovery = 98.57%				
Zr 343.823†	1347693.3	4.805 mg/L	0.0054	4.805 mg/L	0.0054	0.11%
QC Failed. Continue with analysis.						

Sequence No.: 66

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 6:18:38 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	143426.1	95.7 %	0.48			0.51%
Y axial	3092051.3	98.1 %	0.63			0.64%
Ag 328.068†	657.2	0.0077 mg/L	0.00178	0.0077 mg/L	0.00178	23.05%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 396.153†	3.5	0.0008 mg/L	0.00383	0.0008 mg/L	0.00383	485.65%
QC value within limits for Al 396.153		Recovery = Not calculated				
As 188.979†	-3.8	-0.0020 mg/L	0.00335	-0.0020 mg/L	0.00335	168.28%
QC value within limits for As 188.979		Recovery = Not calculated				
B 208.889†	365.2	0.0301 mg/L	0.00182	0.0301 mg/L	0.00182	6.02%
QC value within limits for B 208.889		Recovery = Not calculated				
Ba 233.527†	17.7	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	62.95%

QC value within limits for Ba 233.527	Recovery = Not calculated		
Be 313.107†	99.4 0.0006 mg/L	0.00017	27.74%
QC value within limits for Be 313.107	Recovery = Not calculated		
Ca 317.933†	19.4 0.0040 mg/L	0.00053	13.04%
QC value within limits for Ca 317.933	Recovery = Not calculated		
Cd 228.802†	18.6 0.0004 mg/L	0.00009	20.87%
QC value within limits for Cd 228.802	Recovery = Not calculated		
Co 228.616†	16.3 0.0003 mg/L	0.00021	60.25%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	29.0 0.0004 mg/L	0.00009	22.00%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 327.393†	242.5 0.0015 mg/L	0.00007	4.38%
QC value within limits for Cu 327.393	Recovery = Not calculated		
Fe 238.204†	3.1 0.0295 mg/L	0.02527	85.57%
QC value within limits for Fe 238.204	Recovery = Not calculated		
K 766.490†	-44.5 -0.0287 mg/L	0.03605	125.72%
QC value within limits for K 766.490	Recovery = Not calculated		
Mg 285.213†	43.9 0.0047 mg/L	0.00070	14.98%
QC value within limits for Mg 285.213	Recovery = Not calculated		
Mn 257.610†	-0.1 -0.0000 mg/L	0.00049	>999.9%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	25.6 0.0011 mg/L	0.00004	3.94%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592†	329.7 0.0521 mg/L	0.00401	7.69%
QC value within limits for Na 589.592	Recovery = Not calculated		
Ni 231.604†	7.8 0.0002 mg/L	0.00002	9.18%
QC value within limits for Ni 231.604	Recovery = Not calculated		
Pb 220.353†	32.1 0.0045 mg/L	0.00175	38.61%
QC value within limits for Pb 220.353	Recovery = Not calculated		
Sb 206.836†	14.1 0.0039 mg/L	0.00333	86.25%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.7 0.0003 mg/L	0.00212	778.84%
QC value within limits for Se 196.026	Recovery = Not calculated		
Sn 189.927†	4.4 0.0006 mg/L	0.00054	84.23%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Ti 337.279†	4.1 0.0002 mg/L	0.00051	222.17%
QC value within limits for Ti 337.279	Recovery = Not calculated		
Tl 351.924†	-8.0 -0.0019 mg/L	0.00450	242.49%
QC value within limits for Tl 351.924	Recovery = Not calculated		
V 290.880†	4.9 0.0001 mg/L	0.00019	215.89%
QC value within limits for V 290.880	Recovery = Not calculated		
Zn 206.200†	62.1 0.0015 mg/L	0.00030	19.34%
QC value within limits for Zn 206.200	Recovery = Not calculated		
Zr 343.823†	86.5 0.0003 mg/L	0.00008	24.78%

All analyte(s) passed QC.

Sequence No.: 1

Sample ID: SEQ-ICV @2211094

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample):

User canceled analysis.

Autosampler Location: 8

Date Collected: 4/11/2023 7:00:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Sequence No.: 67

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt: B, TI failed; 04/12/23 ATP

Dilution:

Wash Time (before sample):

Autosampler Location: 5

Date Collected: 4/11/2023 7:23:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145791.0	97.3 %		1.74			1.79%
Y axial	3122907.1	99.0 %		0.78			0.79%
Ag 328.068†	213525.4	2.489 mg/L		0.0205	2.489 mg/L	0.0205	0.82%
QC value within limits for Ag 328.068		Recovery = 99.55%					
Al 396.153†	40927.0	9.357 mg/L		0.0303	9.357 mg/L	0.0303	0.32%
QC value within limits for Al 396.153		Recovery = 93.57%					
As 188.979†	8965.7	4.740 mg/L		0.0271	4.740 mg/L	0.0271	0.57%
QC value within limits for As 188.979		Recovery = 94.80%					
B 208.889†	57460.1	4.497 mg/L		0.0205	4.497 mg/L	0.0205	0.46%
QC value less than the lower limit for B 208.889		Recovery = 89.94%					
Ba 233.527†	497260.1	4.870 mg/L		0.0080	4.870 mg/L	0.0080	0.16%
QC value within limits for Ba 233.527		Recovery = 97.41%					
Be 313.107†	771626.8	4.639 mg/L		0.0102	4.639 mg/L	0.0102	0.22%
QC value within limits for Be 313.107		Recovery = 92.79%					
Ca 317.933†	45113.7	9.373 mg/L		0.0271	9.373 mg/L	0.0271	0.29%
QC value within limits for Ca 317.933		Recovery = 93.73%					
Cd 228.802†	224136.4	4.825 mg/L		0.0074	4.825 mg/L	0.0074	0.15%
QC value within limits for Cd 228.802		Recovery = 96.51%					
Co 228.616†	228514.4	4.826 mg/L		0.0075	4.826 mg/L	0.0075	0.16%
QC value within limits for Co 228.616		Recovery = 96.52%					
Cr 267.716†	360681.1	4.850 mg/L		0.0105	4.850 mg/L	0.0105	0.22%
QC value within limits for Cr 267.716		Recovery = 97.00%					
Cu 327.393†	744165.0	4.729 mg/L		0.0080	4.729 mg/L	0.0080	0.17%
QC value within limits for Cu 327.393		Recovery = 94.57%					
Fe 238.204†	467.4	4.512 mg/L		0.1064	4.512 mg/L	0.1064	2.36%
QC value within limits for Fe 238.204		Recovery = 90.24%					
K 766.490†	14990.5	9.663 mg/L		0.0366	9.663 mg/L	0.0366	0.38%
QC value within limits for K 766.490		Recovery = 96.63%					
Mg 285.213†	90606.5	9.509 mg/L		0.0282	9.509 mg/L	0.0282	0.30%
QC value within limits for Mg 285.213		Recovery = 95.09%					
Mn 257.610†	27768.7	4.704 mg/L		0.0101	4.704 mg/L	0.0101	0.21%
QC value within limits for Mn 257.610		Recovery = 94.09%					
Mo 202.031†	110084.8	4.808 mg/L		0.0067	4.808 mg/L	0.0067	0.14%
QC value within limits for Mo 202.031		Recovery = 96.17%					
Na 589.592†	61749.3	9.751 mg/L		0.0330	9.751 mg/L	0.0330	0.34%
QC value within limits for Na 589.592		Recovery = 97.51%					
Ni 231.604†	226081.0	4.854 mg/L		0.0102	4.854 mg/L	0.0102	0.21%
QC value within limits for Ni 231.604		Recovery = 97.09%					
Pb 220.353†	34254.7	4.864 mg/L		0.0288	4.864 mg/L	0.0288	0.59%
QC value within limits for Pb 220.353		Recovery = 97.29%					
Sb 206.836†	17069.0	4.601 mg/L		0.0297	4.601 mg/L	0.0297	0.65%
QC value within limits for Sb 206.836		Recovery = 92.01%					
Se 196.026†	12294.4	4.685 mg/L		0.0184	4.685 mg/L	0.0184	0.39%
QC value within limits for Se 196.026		Recovery = 93.70%					
Sn 189.927†	32995.7	4.868 mg/L		0.0282	4.868 mg/L	0.0282	0.58%
QC value within limits for Sn 189.927		Recovery = 97.36%					
Ti 337.279†	83748.2	4.723 mg/L		0.0051	4.723 mg/L	0.0051	0.11%
QC value within limits for Ti 337.279		Recovery = 94.46%					

Tl 351.924†	13072.9	3.041 mg/L	0.0170	3.041 mg/L	0.0170	0.56%
QC value greater than the upper limit for Tl 351.924 Recovery = 121.66%						
V 290.880†	382127.5	4.944 mg/L	0.0065	4.944 mg/L	0.0065	0.13%
QC value within limits for V 290.880 Recovery = 98.88%						
Zn 206.200†	200671.3	4.965 mg/L	0.0115	4.965 mg/L	0.0115	0.23%
QC value within limits for Zn 206.200 Recovery = 99.30%						
Zr 343.823†	1346387.4	4.800 mg/L	0.0060	4.800 mg/L	0.0060	0.13%
QC Failed. Continue with analysis.						

Sequence No.: 68

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 7:30:19 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147191.8	98.2 %	0.50			0.51%
Y axial	3170928.3	101 %	0.66			0.65%
Ag 328.068†	178.5	0.0021 mg/L	0.00122	0.0021 mg/L	0.00122	58.18%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	5.1	0.0012 mg/L	0.00110	0.0012 mg/L	0.00110	95.32%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-3.6	-0.0019 mg/L	0.00174	-0.0019 mg/L	0.00174	92.86%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	130.5	0.0107 mg/L	0.00045	0.0107 mg/L	0.00045	4.21%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	18.6	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	28.69%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	45.5	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	7.99%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	2.8	0.0006 mg/L	0.00228	0.0006 mg/L	0.00228	387.06%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	12.0	0.0003 mg/L	0.00014	0.0003 mg/L	0.00014	52.35%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	3.7	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	131.68%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	19.6	0.0003 mg/L	0.00018	0.0003 mg/L	0.00018	69.79%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	190.6	0.0012 mg/L	0.00028	0.0012 mg/L	0.00028	22.84%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	1.5	0.0143 mg/L	0.01295	0.0143 mg/L	0.01295	90.71%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	14.7	0.0095 mg/L	0.00675	0.0095 mg/L	0.00675	71.27%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	5.1	0.0005 mg/L	0.00051	0.0005 mg/L	0.00051	94.12%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	2.0	0.0003 mg/L	0.00047	0.0003 mg/L	0.00047	135.53%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	17.1	0.0007 mg/L	0.00025	0.0007 mg/L	0.00025	33.19%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	208.1	0.0329 mg/L	0.01383	0.0329 mg/L	0.01383	42.09%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-1.3	-0.0000 mg/L	0.00014	-0.0000 mg/L	0.00014	480.67%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	15.9	0.0022 mg/L	0.00059	0.0022 mg/L	0.00059	26.15%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	7.9	0.0021 mg/L	0.00144	0.0021 mg/L	0.00144	67.19%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.2	0.0020 mg/L	0.00143	0.0020 mg/L	0.00143	72.04%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	7.5	0.0011 mg/L	0.00102	0.0011 mg/L	0.00102	92.58%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	17.7	0.0010 mg/L	0.00047	0.0010 mg/L	0.00047	47.10%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	22.4	0.0053 mg/L	0.00327	0.0053 mg/L	0.00327	62.08%

QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† -39.8 -0.0005 mg/L 0.00019 -0.0005 mg/L 0.00019 39.79%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 43.1 0.0011 mg/L 0.00013 0.0011 mg/L 0.00013 12.60%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† 52.8 0.0002 mg/L 0.00012 0.0002 mg/L 0.00012 61.32%
All analyte(s) passed QC.

Sequence No.: 69

Sample ID: B336863-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 76

Date Collected: 4/11/2023 7:36:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	146548.8	97.8	%	0.95			0.98%
Y axial	3177936.0	101	%	1.45			1.44%
Ag 328.068†	33.4	0.0004	mg/L	0.00019	0.0004 mg/L	0.00019	49.85%
Al 396.153†	24.0	0.0056	mg/L	0.00417	0.0056 mg/L	0.00417	74.56%
As 188.979†	-5.1	-0.0026	mg/L	0.00090	-0.0026 mg/L	0.00090	35.10%
B 208.889†	125.8	0.0104	mg/L	0.00108	0.0104 mg/L	0.00108	10.43%
Ba 233.527†	2.0	0.0000	mg/L	0.00008	0.0000 mg/L	0.00008	418.70%
Be 313.107†	-15.9	-0.0001	mg/L	0.00004	-0.0001 mg/L	0.00004	45.54%
Ca 317.933†	242.4	0.0504	mg/L	0.00385	0.0504 mg/L	0.00385	7.65%
Cd 228.802†	9.6	0.0002	mg/L	0.00021	0.0002 mg/L	0.00021	96.08%
Co 228.616†	-7.1	-0.0001	mg/L	0.00029	-0.0001 mg/L	0.00029	193.82%
Cr 267.716†	678.4	0.0091	mg/L	0.00036	0.0091 mg/L	0.00036	3.95%
Cu 327.393†	489.5	0.0031	mg/L	0.00030	0.0031 mg/L	0.00030	9.81%
Fe 238.204†	1.5	0.0146	mg/L	0.02203	0.0146 mg/L	0.02203	150.90%
K 766.490†	29.5	0.0190	mg/L	0.03692	0.0190 mg/L	0.03692	194.30%
Mg 285.213†	125.8	0.0133	mg/L	0.00032	0.0133 mg/L	0.00032	2.40%
Mn 257.610†	0.4	0.0001	mg/L	0.00088	0.0001 mg/L	0.00088	>999.9%
Mo 202.031†	2.4	0.0001	mg/L	0.00021	0.0001 mg/L	0.00021	192.39%
Na 589.592†	306.1	0.0483	mg/L	0.00083	0.0483 mg/L	0.00083	1.72%
Ni 231.604†	8.1	0.0002	mg/L	0.00014	0.0002 mg/L	0.00014	82.88%
Pb 220.353†	16.1	0.0023	mg/L	0.00151	0.0023 mg/L	0.00151	66.09%
Sb 206.836†	17.1	0.0045	mg/L	0.00212	0.0045 mg/L	0.00212	47.00%
Se 196.026†	11.7	0.0045	mg/L	0.00138	0.0045 mg/L	0.00138	30.99%
Sn 189.927†	27.5	0.0040	mg/L	0.00033	0.0040 mg/L	0.00033	8.28%
Ti 337.279†	0.5	0.0000	mg/L	0.00065	0.0000 mg/L	0.00065	>999.9%
Tl 351.924†	46.6	0.0109	mg/L	0.00818	0.0109 mg/L	0.00818	74.74%
V 290.880†	-50.4	-0.0006	mg/L	0.00029	-0.0006 mg/L	0.00029	44.67%
Zn 206.200†	124.1	0.0031	mg/L	0.00026	0.0031 mg/L	0.00026	8.41%
Zr 343.823†	153.5	0.0005	mg/L	0.00019	0.0005 mg/L	0.00019	35.31%

Sequence No.: 70

Sample ID: B336863-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 77

Date Collected: 4/11/2023 7:42:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	142813.1	95.3	%	0.48			0.50%
Y axial	3134704.6	99.4	%	0.62			0.62%
Ag 328.068†	47746.1	0.5603	mg/L	0.00427	0.5603 mg/L	0.00427	0.76%
Al 396.153†	2281.0	0.5165	mg/L	0.00463	0.5165 mg/L	0.00463	0.90%
As 188.979†	869.1	0.4604	mg/L	0.00550	0.4604 mg/L	0.00550	1.19%
B 208.889†	11502.0	0.9238	mg/L	0.00750	0.9238 mg/L	0.00750	0.81%
Ba 233.527†	53215.8	0.5212	mg/L	0.00251	0.5212 mg/L	0.00251	0.48%
Be 313.107†	84437.1	0.5073	mg/L	0.00125	0.5073 mg/L	0.00125	0.25%

Ca 317.933†	19311.0	4.012 mg/L	0.0020	4.012 mg/L	0.0020	0.05%
Cd 228.802†	23164.0	0.4989 mg/L	0.00100	0.4989 mg/L	0.00100	0.20%
Co 228.616†	24346.3	0.5142 mg/L	0.00154	0.5142 mg/L	0.00154	0.30%
Cr 267.716†	39337.5	0.5290 mg/L	0.00208	0.5290 mg/L	0.00208	0.39%
Cu 327.393†	164489.8	1.043 mg/L	0.0018	1.043 mg/L	0.0018	0.17%
Fe 238.204†	407.1	3.912 mg/L	0.0371	3.912 mg/L	0.0371	0.95%
K 766.490†	6274.6	4.045 mg/L	0.0198	4.045 mg/L	0.0198	0.49%
Mg 285.213†	37494.6	3.979 mg/L	0.0080	3.979 mg/L	0.0080	0.20%
Mn 257.610†	2974.2	0.5039 mg/L	0.00410	0.5039 mg/L	0.00410	0.81%
Mo 202.031†	11738.8	0.5127 mg/L	0.00491	0.5127 mg/L	0.00491	0.96%
Na 589.592†	26377.2	4.165 mg/L	0.0113	4.165 mg/L	0.0113	0.27%
Ni 231.604†	24182.2	0.5190 mg/L	0.00287	0.5190 mg/L	0.00287	0.55%
Pb 220.353†	3656.5	0.5186 mg/L	0.00574	0.5186 mg/L	0.00574	1.11%
Sb 206.836†	1745.6	0.4696 mg/L	0.00654	0.4696 mg/L	0.00654	1.39%
Se 196.026†	1259.0	0.4798 mg/L	0.00226	0.4798 mg/L	0.00226	0.47%
Sn 189.927†	3499.0	0.5163 mg/L	0.00585	0.5163 mg/L	0.00585	1.13%
Ti 337.279†	9055.5	0.5109 mg/L	0.00154	0.5109 mg/L	0.00154	0.30%
Tl 351.924†	2637.9	0.6185 mg/L	0.00752	0.6185 mg/L	0.00752	1.22%
V 290.880†	40991.1	0.5289 mg/L	0.00264	0.5289 mg/L	0.00264	0.50%
Zn 206.200†	41390.8	1.022 mg/L	0.0050	1.022 mg/L	0.0050	0.49%
Zr 343.823†	153.5	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.83%

Sequence No.: 71

Sample ID: B336863-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 78

Date Collected: 4/11/2023 7:49:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	144831.6	96.6	%	1.33			1.38%
Y axial	3188089.8	101	%	1.10			1.09%
Ag 328.068†	46226.5	0.5424	mg/L	0.00376	0.5424 mg/L	0.00376	0.69%
Al 396.153†	2225.9	0.5039	mg/L	0.00407	0.5039 mg/L	0.00407	0.81%
As 188.979†	852.7	0.4517	mg/L	0.00396	0.4517 mg/L	0.00396	0.88%
B 208.889†	11278.2	0.9059	mg/L	0.01102	0.9059 mg/L	0.01102	1.22%
Ba 233.527†	51603.4	0.5054	mg/L	0.01010	0.5054 mg/L	0.01010	2.00%
Be 313.107†	82766.1	0.4973	mg/L	0.00100	0.4973 mg/L	0.00100	0.20%
Ca 317.933†	19008.6	3.949	mg/L	0.0160	3.949 mg/L	0.0160	0.41%
Cd 228.802†	22546.4	0.4856	mg/L	0.00924	0.4856 mg/L	0.00924	1.90%
Co 228.616†	23628.9	0.4990	mg/L	0.01012	0.4990 mg/L	0.01012	2.03%
Cr 267.716†	38160.1	0.5131	mg/L	0.01075	0.5131 mg/L	0.01075	2.09%
Cu 327.393†	159256.9	1.009	mg/L	0.0197	1.009 mg/L	0.0197	1.95%
Fe 238.204†	399.5	3.839	mg/L	0.0264	3.839 mg/L	0.0264	0.69%
K 766.490†	6172.9	3.979	mg/L	0.0117	3.979 mg/L	0.0117	0.29%
Mg 285.213†	36758.7	3.900	mg/L	0.0136	3.900 mg/L	0.0136	0.35%
Mn 257.610†	2925.0	0.4955	mg/L	0.00493	0.4955 mg/L	0.00493	0.99%
Mo 202.031†	11485.5	0.5017	mg/L	0.00619	0.5017 mg/L	0.00619	1.23%
Na 589.592†	25791.8	4.073	mg/L	0.0171	4.073 mg/L	0.0171	0.42%
Ni 231.604†	23401.9	0.5023	mg/L	0.01042	0.5023 mg/L	0.01042	2.07%
Pb 220.353†	3572.0	0.5066	mg/L	0.00624	0.5066 mg/L	0.00624	1.23%
Sb 206.836†	1713.3	0.4610	mg/L	0.00470	0.4610 mg/L	0.00470	1.02%
Se 196.026†	1237.5	0.4716	mg/L	0.00161	0.4716 mg/L	0.00161	0.34%
Sn 189.927†	3429.1	0.5060	mg/L	0.00661	0.5060 mg/L	0.00661	1.31%
Ti 337.279†	8844.7	0.4990	mg/L	0.00199	0.4990 mg/L	0.00199	0.40%
Tl 351.924†	2607.8	0.6115	mg/L	0.00711	0.6115 mg/L	0.00711	1.16%
V 290.880†	39668.6	0.5120	mg/L	0.01110	0.5120 mg/L	0.01110	2.17%
Zn 206.200†	40150.4	0.9913	mg/L	0.02025	0.9913 mg/L	0.02025	2.04%
Zr 343.823†	64.9	0.0001	mg/L	0.00009	0.0001 mg/L	0.00009	69.34%

Sequence No.: 72

Sample ID: B336863-BS3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 79

Date Collected: 4/11/2023 7:57:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336863-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145592.7	97.1	%	0.37			0.38%
Y axial	3171858.0	101	%	0.80			0.80%
Ag 328.068†	46909.9	0.5504	mg/L	0.00354	0.5504 mg/L	0.00354	0.64%
Al 396.153†	2219.1	0.5022	mg/L	0.00457	0.5022 mg/L	0.00457	0.91%
As 188.979†	856.1	0.4535	mg/L	0.00363	0.4535 mg/L	0.00363	0.80%
B 208.889†	11353.7	0.9119	mg/L	0.00867	0.9119 mg/L	0.00867	0.95%
Ba 233.527†	52513.0	0.5143	mg/L	0.00975	0.5143 mg/L	0.00975	1.90%
Be 313.107†	81802.7	0.4915	mg/L	0.00066	0.4915 mg/L	0.00066	0.13%
Ca 317.933†	18751.3	3.896	mg/L	0.0156	3.896 mg/L	0.0156	0.40%
Cd 228.802†	22863.3	0.4925	mg/L	0.00859	0.4925 mg/L	0.00859	1.74%
Co 228.616†	24082.3	0.5086	mg/L	0.00824	0.5086 mg/L	0.00824	1.62%
Cr 267.716†	38568.2	0.5186	mg/L	0.00707	0.5186 mg/L	0.00707	1.36%
Cu 327.393†	161679.4	1.025	mg/L	0.0181	1.025 mg/L	0.0181	1.77%
Fe 238.204†	399.9	3.843	mg/L	0.0112	3.843 mg/L	0.0112	0.29%
K 766.490†	6082.6	3.921	mg/L	0.0185	3.921 mg/L	0.0185	0.47%
Mg 285.213†	36315.4	3.853	mg/L	0.0013	3.853 mg/L	0.0013	0.03%
Mn 257.610†	2898.1	0.4910	mg/L	0.00240	0.4910 mg/L	0.00240	0.49%
Mo 202.031†	11574.1	0.5056	mg/L	0.00412	0.5056 mg/L	0.00412	0.82%
Na 589.592†	25548.3	4.034	mg/L	0.0071	4.034 mg/L	0.0071	0.18%
Ni 231.604†	23847.9	0.5118	mg/L	0.00830	0.5118 mg/L	0.00830	1.62%
Pb 220.353†	3586.7	0.5087	mg/L	0.00435	0.5087 mg/L	0.00435	0.86%
Sb 206.836†	1722.9	0.4636	mg/L	0.00149	0.4636 mg/L	0.00149	0.32%
Se 196.026†	1242.5	0.4735	mg/L	0.00766	0.4735 mg/L	0.00766	1.62%
Sn 189.927†	3443.1	0.5080	mg/L	0.00558	0.5080 mg/L	0.00558	1.10%
Ti 337.279†	8793.3	0.4961	mg/L	0.00248	0.4961 mg/L	0.00248	0.50%
Tl 351.924†	2608.1	0.6116	mg/L	0.00968	0.6116 mg/L	0.00968	1.58%
V 290.880†	40291.4	0.5200	mg/L	0.01044	0.5200 mg/L	0.01044	2.01%
Zn 206.200†	40799.2	1.007	mg/L	0.0193	1.007 mg/L	0.0193	1.91%
Zr 343.823†	50.5	0.0001	mg/L	0.00001	0.0001 mg/L	0.00001	17.48%

Sequence No.: 73

Sample ID: B336863-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 80

Date Collected: 4/11/2023 8:05:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	143048.6	95.4	%	2.87			3.01%
Y axial	3155559.8	100	%	0.60			0.60%
Ag 328.068†	46345.4	0.5438	mg/L	0.00656	0.5438 mg/L	0.00656	1.21%
Al 396.153†	2251.7	0.5099	mg/L	0.01581	0.5099 mg/L	0.01581	3.10%
As 188.979†	849.7	0.4501	mg/L	0.00388	0.4501 mg/L	0.00388	0.86%
B 208.889†	11290.7	0.9069	mg/L	0.00574	0.9069 mg/L	0.00574	0.63%
Ba 233.527†	51721.0	0.5066	mg/L	0.00608	0.5066 mg/L	0.00608	1.20%
Be 313.107†	82898.2	0.4981	mg/L	0.01024	0.4981 mg/L	0.01024	2.06%
Ca 317.933†	19036.2	3.955	mg/L	0.0768	3.955 mg/L	0.0768	1.94%
Cd 228.802†	22616.2	0.4871	mg/L	0.00503	0.4871 mg/L	0.00503	1.03%
Co 228.616†	23662.3	0.4997	mg/L	0.00523	0.4997 mg/L	0.00523	1.05%
Cr 267.716†	37930.9	0.5101	mg/L	0.00523	0.5101 mg/L	0.00523	1.03%
Cu 327.393†	159733.2	1.012	mg/L	0.0092	1.012 mg/L	0.0092	0.91%
Fe 238.204†	409.7	3.937	mg/L	0.1765	3.937 mg/L	0.1765	4.48%
K 766.490†	6167.3	3.975	mg/L	0.0725	3.975 mg/L	0.0725	1.82%
Mg 285.213†	36862.7	3.912	mg/L	0.0887	3.912 mg/L	0.0887	2.27%
Mn 257.610†	2966.5	0.5026	mg/L	0.01611	0.5026 mg/L	0.01611	3.20%
Mo 202.031†	11495.1	0.5021	mg/L	0.00305	0.5021 mg/L	0.00305	0.61%
Na 589.592†	25859.0	4.084	mg/L	0.0980	4.084 mg/L	0.0980	2.40%
Ni 231.604†	23593.5	0.5064	mg/L	0.00480	0.5064 mg/L	0.00480	0.95%
Pb 220.353†	3570.1	0.5064	mg/L	0.00339	0.5064 mg/L	0.00339	0.67%
Sb 206.836†	1712.3	0.4608	mg/L	0.00153	0.4608 mg/L	0.00153	0.33%

Se 196.026†	1232.0	0.4695 mg/L	0.00315	0.4695 mg/L	0.00315	0.67%
Sn 189.927†	3428.9	0.5059 mg/L	0.00186	0.5059 mg/L	0.00186	0.37%
Ti 337.279†	8901.1	0.5022 mg/L	0.00887	0.5022 mg/L	0.00887	1.77%
Tl 351.924†	2599.9	0.6097 mg/L	0.00055	0.6097 mg/L	0.00055	0.09%
V 290.880†	40144.0	0.5180 mg/L	0.00685	0.5180 mg/L	0.00685	1.32%
Zn 206.200†	40332.3	0.9957 mg/L	0.01067	0.9957 mg/L	0.01067	1.07%
Zr 343.823†	66.7	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	37.77%

Sequence No.: 74

Sample ID: B336863-BS5

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 81

Date Collected: 4/11/2023 8:12:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336863-BS5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	143788.2	95.9 %		1.15			1.20%
Y axial	3097961.1	98.2 %		0.53			0.54%
Ag 328.068†	47478.0	0.5571 mg/L		0.00586	0.5571 mg/L	0.00586	1.05%
Al 396.153†	2259.1	0.5113 mg/L		0.00264	0.5113 mg/L	0.00264	0.52%
As 188.979†	871.2	0.4615 mg/L		0.00255	0.4615 mg/L	0.00255	0.55%
B 208.889†	11572.2	0.9295 mg/L		0.00444	0.9295 mg/L	0.00444	0.48%
Ba 233.527†	53306.2	0.5221 mg/L		0.00467	0.5221 mg/L	0.00467	0.89%
Be 313.107†	84187.7	0.5058 mg/L		0.00136	0.5058 mg/L	0.00136	0.27%
Ca 317.933†	19338.2	4.018 mg/L		0.0193	4.018 mg/L	0.0193	0.48%
Cd 228.802†	23308.2	0.5021 mg/L		0.00474	0.5021 mg/L	0.00474	0.94%
Co 228.616†	24523.5	0.5179 mg/L		0.00544	0.5179 mg/L	0.00544	1.05%
Cr 267.716†	39246.7	0.5277 mg/L		0.00573	0.5277 mg/L	0.00573	1.09%
Cu 327.393†	164754.1	1.044 mg/L		0.0124	1.044 mg/L	0.0124	1.18%
Fe 238.204†	405.5	3.897 mg/L		0.0614	3.897 mg/L	0.0614	1.58%
K 766.490†	6292.0	4.056 mg/L		0.0085	4.056 mg/L	0.0085	0.21%
Mg 285.213†	37425.6	3.971 mg/L		0.0024	3.971 mg/L	0.0024	0.06%
Mn 257.610†	2924.2	0.4954 mg/L		0.00694	0.4954 mg/L	0.00694	1.40%
Mo 202.031†	11770.5	0.5141 mg/L		0.00222	0.5141 mg/L	0.00222	0.43%
Na 589.592†	26244.4	4.144 mg/L		0.0148	4.144 mg/L	0.0148	0.36%
Ni 231.604†	24321.2	0.5220 mg/L		0.00466	0.5220 mg/L	0.00466	0.89%
Pb 220.353†	3664.6	0.5198 mg/L		0.00262	0.5198 mg/L	0.00262	0.50%
Sb 206.836†	1761.3	0.4740 mg/L		0.00188	0.4740 mg/L	0.00188	0.40%
Se 196.026†	1262.6	0.4811 mg/L		0.00352	0.4811 mg/L	0.00352	0.73%
Sn 189.927†	3514.8	0.5186 mg/L		0.00304	0.5186 mg/L	0.00304	0.59%
Ti 337.279†	9052.5	0.5108 mg/L		0.00051	0.5108 mg/L	0.00051	0.10%
Tl 351.924†	2671.4	0.6264 mg/L		0.00872	0.6264 mg/L	0.00872	1.39%
V 290.880†	41259.8	0.5324 mg/L		0.00412	0.5324 mg/L	0.00412	0.77%
Zn 206.200†	41462.9	1.024 mg/L		0.0090	1.024 mg/L	0.0090	0.88%
Zr 343.823†	37.1	0.0000 mg/L		0.00005	0.0000 mg/L	0.00005	201.28%

Sequence No.: 75

Sample ID: B336862-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 82

Date Collected: 4/11/2023 8:20:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336862-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	148035.6	98.8 %		0.94			0.95%
Y axial	3156709.2	100 %		1.66			1.66%
Ag 328.068†	-10.8	-0.0002 mg/L		0.00021	-0.0002 mg/L	0.00021	101.11%
Al 396.153†	65.6	0.0151 mg/L		0.00416	0.0151 mg/L	0.00416	27.63%
As 188.979†	-119.6	0.0007 mg/L		0.00081	0.0007 mg/L	0.00081	113.40%
B 208.889†	130.5	0.0107 mg/L		0.00087	0.0107 mg/L	0.00087	8.10%
Ba 233.527†	969.0	0.0095 mg/L		0.00029	0.0095 mg/L	0.00029	3.02%
Be 313.107†	137.6	0.0009 mg/L		0.00017	0.0009 mg/L	0.00017	19.98%

Ca 317.933†	553.5	0.1150 mg/L	0.00439	0.1150 mg/L	0.00439	3.81%
Cd 228.802†	6.4	0.0010 mg/L	0.00011	0.0010 mg/L	0.00011	10.92%
Co 228.616†	5381.9	-0.0037 mg/L	0.00291	-0.0037 mg/L	0.00291	79.21%
Cr 267.716†	197.4	0.0027 mg/L	0.00007	0.0027 mg/L	0.00007	2.50%
Cu 327.393†	-7760.8	0.0089 mg/L	0.00114	0.0089 mg/L	0.00114	12.82%
Fe 238.204†	2.4	-0.0108 mg/L	0.03439	-0.0108 mg/L	0.03439	318.27%
K 766.490†	4448.1	2.867 mg/L	0.0248	2.867 mg/L	0.0248	0.86%
Mg 285.213†	159.8	0.0165 mg/L	0.00102	0.0165 mg/L	0.00102	6.20%
Mn 257.610†	2.8	0.0005 mg/L	0.00068	0.0005 mg/L	0.00068	145.00%
Mo 202.031†	28.7	0.0013 mg/L	0.00021	0.0013 mg/L	0.00021	16.97%
Na 589.592†	607.2	0.0959 mg/L	0.00790	0.0959 mg/L	0.00790	8.23%
Ni 231.604†	22.4	0.0003 mg/L	0.00033	0.0003 mg/L	0.00033	127.15%
Pb 220.353†	-179.9	-0.0086 mg/L	0.00159	-0.0086 mg/L	0.00159	18.54%
Sb 206.836†	78.2	-0.0171 mg/L	0.00083	-0.0171 mg/L	0.00083	4.86%
Se 196.026†	-1.6	-0.0007 mg/L	0.00739	-0.0007 mg/L	0.00739	>999.9%
Sn 189.927†	-2428.9	-0.0205 mg/L	0.01188	-0.0205 mg/L	0.01188	58.04%
Ti 337.279†	1135680.2	64.08 mg/L	0.954	64.08 mg/L	0.954	1.49%
Tl 351.924†	1329.8	0.0447 mg/L	0.01130	0.0447 mg/L	0.01130	25.29%
V 290.880†	-146.4	-0.0018 mg/L	0.00028	-0.0018 mg/L	0.00028	15.54%
Zn 206.200†	384.6	0.0095 mg/L	0.00017	0.0095 mg/L	0.00017	1.81%
Zr 343.823†	6558.7	0.0234 mg/L	0.00013	0.0234 mg/L	0.00013	0.55%

Sequence No.: 76

Sample ID: B336862-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 83

Date Collected: 4/11/2023 8:28:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336862-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145260.4	96.9 %		0.58			0.60%
Y axial	3083307.4	97.8 %		0.40			0.41%
Ag 328.068†	69995.7	0.8214 mg/L		0.00139	0.8214 mg/L	0.00139	0.17%
Al 396.153†	253610.7	59.09 mg/L		0.636	59.09 mg/L	0.636	1.08%
As 188.979†	3513.0	1.875 mg/L		0.0252	1.875 mg/L	0.0252	1.34%
B 208.889†	9900.1	0.7346 mg/L		0.00390	0.7346 mg/L	0.00390	0.53%
Ba 233.527†	327720.8	3.209 mg/L		0.0015	3.209 mg/L	0.0015	0.05%
Be 313.107†	142852.7	0.8546 mg/L		0.00183	0.8546 mg/L	0.00183	0.21%
Ca 317.933†	242158.0	50.31 mg/L		0.509	50.31 mg/L	0.509	1.01%
Cd 228.802†	105797.6	2.274 mg/L		0.0048	2.274 mg/L	0.0048	0.21%
Co 228.616†	50142.2	1.058 mg/L		0.0037	1.058 mg/L	0.0037	0.35%
Cr 267.716†	160494.3	2.159 mg/L		0.0024	2.159 mg/L	0.0024	0.11%
Cu 327.393†	237401.9	1.508 mg/L		0.0015	1.508 mg/L	0.0015	0.10%
Fe 238.204†	10180.6	97.81 mg/L		0.612	97.81 mg/L	0.612	0.63%
K 766.490†	29121.8	18.77 mg/L		0.065	18.77 mg/L	0.065	0.35%
Mg 285.213†	193422.7	20.55 mg/L		0.078	20.55 mg/L	0.078	0.38%
Mn 257.610†	24868.3	4.213 mg/L		0.0183	4.213 mg/L	0.0183	0.43%
Mo 202.031†	36556.9	1.597 mg/L		0.0042	1.597 mg/L	0.0042	0.26%
Na 589.592†	30378.2	4.797 mg/L		0.0215	4.797 mg/L	0.0215	0.45%
Ni 231.604†	83047.0	1.783 mg/L		0.0026	1.783 mg/L	0.0026	0.15%
Pb 220.353†	20268.9	2.875 mg/L		0.0216	2.875 mg/L	0.0216	0.75%
Sb 206.836†	433.9	0.0639 mg/L		0.01038	0.0639 mg/L	0.01038	16.25%
Se 196.026†	5962.9	2.273 mg/L		0.0080	2.273 mg/L	0.0080	0.35%
Sn 189.927†	1491.4	0.2238 mg/L		0.00420	0.2238 mg/L	0.00420	1.88%
Ti 337.279†	16531.7	0.9327 mg/L		0.02222	0.9327 mg/L	0.02222	2.38%
Tl 351.924†	4473.4	1.110 mg/L		0.0131	1.110 mg/L	0.0131	1.18%
V 290.880†	166855.6	2.129 mg/L		0.0010	2.129 mg/L	0.0010	0.05%
Zn 206.200†	101143.3	2.494 mg/L		0.0040	2.494 mg/L	0.0040	0.16%
Zr 343.823†	17096.8	0.0583 mg/L		0.00019	0.0583 mg/L	0.00019	0.33%

Sequence No.: 77

Sample ID: B336862-BS2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 84

Date Collected: 4/11/2023 8:34:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Wash Time (before sample): 220

Mean Data: B336862-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	144673.0	96.5	%	1.10			1.14%
Y axial	3075702.6	97.5	%	0.84			0.87%
Ag 328.068†	64600.6	0.7581	mg/L	0.00808	0.7581 mg/L	0.00808	1.07%
Al 396.153†	240107.7	55.94	mg/L	0.161	55.94 mg/L	0.161	0.29%
As 188.979†	3252.7	1.736	mg/L	0.0093	1.736 mg/L	0.0093	0.54%
B 208.889†	9498.9	0.7049	mg/L	0.00647	0.7049 mg/L	0.00647	0.92%
Ba 233.527†	303605.2	2.973	mg/L	0.0046	2.973 mg/L	0.0046	0.16%
Be 313.107†	134371.3	0.8038	mg/L	0.00036	0.8038 mg/L	0.00036	0.05%
Ca 317.933†	227202.6	47.21	mg/L	0.107	47.21 mg/L	0.107	0.23%
Cd 228.802†	102544.1	2.205	mg/L	0.0041	2.205 mg/L	0.0041	0.19%
Co 228.616†	47024.5	0.9926	mg/L	0.00407	0.9926 mg/L	0.00407	0.41%
Cr 267.716†	152979.0	2.058	mg/L	0.0007	2.058 mg/L	0.0007	0.04%
Cu 327.393†	226024.7	1.436	mg/L	0.0024	1.436 mg/L	0.0024	0.16%
Fe 238.204†	9478.4	91.06	mg/L	1.288	91.06 mg/L	1.288	1.41%
K 766.490†	27759.7	17.89	mg/L	0.231	17.89 mg/L	0.231	1.29%
Mg 285.213†	182447.4	19.38	mg/L	0.042	19.38 mg/L	0.042	0.22%
Mn 257.610†	22189.2	3.759	mg/L	0.0459	3.759 mg/L	0.0459	1.22%
Mo 202.031†	35038.8	1.530	mg/L	0.0050	1.530 mg/L	0.0050	0.33%
Na 589.592†	27970.7	4.417	mg/L	0.0083	4.417 mg/L	0.0083	0.19%
Ni 231.604†	79006.2	1.696	mg/L	0.0042	1.696 mg/L	0.0042	0.25%
Pb 220.353†	18933.4	2.686	mg/L	0.0165	2.686 mg/L	0.0165	0.62%
Sb 206.836†	418.5	0.0624	mg/L	0.00357	0.0624 mg/L	0.00357	5.71%
Se 196.026†	5627.9	2.145	mg/L	0.0257	2.145 mg/L	0.0257	1.20%
Sn 189.927†	1386.2	0.2084	mg/L	0.00721	0.2084 mg/L	0.00721	3.46%
Ti 337.279†	16546.1	0.9336	mg/L	0.01266	0.9336 mg/L	0.01266	1.36%
Tl 351.924†	4349.7	1.076	mg/L	0.0175	1.076 mg/L	0.0175	1.63%
V 290.880†	158709.1	2.026	mg/L	0.0019	2.026 mg/L	0.0019	0.09%
Zn 206.200†	94299.7	2.326	mg/L	0.0068	2.326 mg/L	0.0068	0.29%
Zr 343.823†	16165.4	0.0551	mg/L	0.00024	0.0551 mg/L	0.00024	0.44%

Sequence No.: 78

Sample ID: B336862-BS3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 85

Date Collected: 4/11/2023 8:40:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336862-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	144785.9	96.6	%	0.96			0.99%
Y axial	3078142.4	97.6	%	0.85			0.87%
Ag 328.068†	60493.0	0.7099	mg/L	0.00824	0.7099 mg/L	0.00824	1.16%
Al 396.153†	231994.4	54.06	mg/L	0.006	54.06 mg/L	0.006	0.01%
As 188.979†	3084.1	1.647	mg/L	0.0141	1.647 mg/L	0.0141	0.86%
B 208.889†	9027.8	0.6708	mg/L	0.00578	0.6708 mg/L	0.00578	0.86%
Ba 233.527†	288931.4	2.829	mg/L	0.0080	2.829 mg/L	0.0080	0.28%
Be 313.107†	127701.0	0.7639	mg/L	0.00125	0.7639 mg/L	0.00125	0.16%
Ca 317.933†	216760.1	45.04	mg/L	0.067	45.04 mg/L	0.067	0.15%
Cd 228.802†	97147.1	2.089	mg/L	0.0032	2.089 mg/L	0.0032	0.15%
Co 228.616†	44491.7	0.9391	mg/L	0.00130	0.9391 mg/L	0.00130	0.14%
Cr 267.716†	145809.3	1.962	mg/L	0.0033	1.962 mg/L	0.0033	0.17%
Cu 327.393†	211463.4	1.343	mg/L	0.0014	1.343 mg/L	0.0014	0.11%
Fe 238.204†	9147.8	87.88	mg/L	0.937	87.88 mg/L	0.937	1.07%
K 766.490†	26338.9	16.98	mg/L	0.157	16.98 mg/L	0.157	0.93%
Mg 285.213†	178223.9	18.93	mg/L	0.006	18.93 mg/L	0.006	0.03%
Mn 257.610†	21259.8	3.602	mg/L	0.0171	3.602 mg/L	0.0171	0.47%
Mo 202.031†	32908.8	1.437	mg/L	0.0107	1.437 mg/L	0.0107	0.75%
Na 589.592†	26824.3	4.236	mg/L	0.0202	4.236 mg/L	0.0202	0.48%
Ni 231.604†	74752.7	1.605	mg/L	0.0040	1.605 mg/L	0.0040	0.25%
Pb 220.353†	17598.2	2.496	mg/L	0.0191	2.496 mg/L	0.0191	0.77%
Sb 206.836†	405.3	0.0611	mg/L	0.00139	0.0611 mg/L	0.00139	2.27%

Se 196.026†	5303.6	2.022 mg/L	0.0073	2.022 mg/L	0.0073	0.36%
Sn 189.927†	1287.7	0.1937 mg/L	0.00189	0.1937 mg/L	0.00189	0.97%
Ti 337.279†	15719.2	0.8869 mg/L	0.03096	0.8869 mg/L	0.03096	3.49%
Tl 351.924†	4161.2	1.030 mg/L	0.0069	1.030 mg/L	0.0069	0.67%
V 290.880†	151026.3	1.927 mg/L	0.0027	1.927 mg/L	0.0027	0.14%
Zn 206.200†	89570.7	2.209 mg/L	0.0118	2.209 mg/L	0.0118	0.54%
Zr 343.823†	15534.6	0.0530 mg/L	0.00053	0.0530 mg/L	0.00053	1.00%

Sequence No.: 79

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 8:46:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

B, Be, Fe, Sb, Tl failed;
04/12/23 ATP

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	147000.5	98.1 %	1.19			1.21%
Y axial	3133643.3	99.4 %	0.67			0.67%
Ag 328.068†	206783.1	2.410 mg/L	0.0262	2.410 mg/L	0.0262	1.09%
QC value within limits for Ag 328.068		Recovery = 96.41%				
Al 396.153†	40193.2	9.192 mg/L	0.0340	9.192 mg/L	0.0340	0.37%
QC value within limits for Al 396.153		Recovery = 91.92%				
As 188.979†	8693.2	4.596 mg/L	0.0146	4.596 mg/L	0.0146	0.32%
QC value within limits for As 188.979		Recovery = 91.92%				
B 208.889†	55514.9	4.345 mg/L	0.0035	4.345 mg/L	0.0035	0.08%
QC value less than the lower limit for B 208.889		Recovery = 86.90%				
Ba 233.527†	480271.2	4.704 mg/L	0.0008	4.704 mg/L	0.0008	0.02%
QC value within limits for Ba 233.527		Recovery = 94.08%				
Be 313.107†	747592.4	4.495 mg/L	0.0125	4.495 mg/L	0.0125	0.28%
QC value less than the lower limit for Be 313.107		Recovery = 89.90%				
Ca 317.933†	43642.0	9.067 mg/L	0.0195	9.067 mg/L	0.0195	0.22%
QC value within limits for Ca 317.933		Recovery = 90.67%				
Cd 228.802†	217715.6	4.687 mg/L	0.0071	4.687 mg/L	0.0071	0.15%
QC value within limits for Cd 228.802		Recovery = 93.74%				
Co 228.616†	220489.9	4.657 mg/L	0.0033	4.657 mg/L	0.0033	0.07%
QC value within limits for Co 228.616		Recovery = 93.13%				
Cr 267.716†	348342.2	4.684 mg/L	0.0023	4.684 mg/L	0.0023	0.05%
QC value within limits for Cr 267.716		Recovery = 93.69%				
Cu 327.393†	725310.7	4.609 mg/L	0.0045	4.609 mg/L	0.0045	0.10%
QC value within limits for Cu 327.393		Recovery = 92.18%				
Fe 238.204†	453.6	4.379 mg/L	0.0784	4.379 mg/L	0.0784	1.79%
QC value less than the lower limit for Fe 238.204		Recovery = 87.57%				
K 766.490†	14632.5	9.432 mg/L	0.0645	9.432 mg/L	0.0645	0.68%
QC value within limits for K 766.490		Recovery = 94.32%				
Mg 285.213†	88418.6	9.280 mg/L	0.0238	9.280 mg/L	0.0238	0.26%
QC value within limits for Mg 285.213		Recovery = 92.80%				
Mn 257.610†	26829.7	4.545 mg/L	0.0272	4.545 mg/L	0.0272	0.60%
QC value within limits for Mn 257.610		Recovery = 90.90%				
Mo 202.031†	106280.0	4.642 mg/L	0.0022	4.642 mg/L	0.0022	0.05%
QC value within limits for Mo 202.031		Recovery = 92.85%				
Na 589.592†	60444.6	9.545 mg/L	0.0352	9.545 mg/L	0.0352	0.37%
QC value within limits for Na 589.592		Recovery = 95.45%				
Ni 231.604†	217711.4	4.675 mg/L	0.0009	4.675 mg/L	0.0009	0.02%
QC value within limits for Ni 231.604		Recovery = 93.49%				
Pb 220.353†	33261.8	4.723 mg/L	0.0238	4.723 mg/L	0.0238	0.50%
QC value within limits for Pb 220.353		Recovery = 94.46%				
Sb 206.836†	16631.7	4.484 mg/L	0.0132	4.484 mg/L	0.0132	0.29%
QC value less than the lower limit for Sb 206.836		Recovery = 89.67%				
Se 196.026†	11911.4	4.539 mg/L	0.0269	4.539 mg/L	0.0269	0.59%
QC value within limits for Se 196.026		Recovery = 90.78%				
Sn 189.927†	31956.5	4.715 mg/L	0.0100	4.715 mg/L	0.0100	0.21%
QC value within limits for Sn 189.927		Recovery = 94.30%				
Ti 337.279†	81251.9	4.582 mg/L	0.0084	4.582 mg/L	0.0084	0.18%
QC value within limits for Ti 337.279		Recovery = 91.64%				
Tl 351.924†	12818.0	2.982 mg/L	0.0058	2.982 mg/L	0.0058	0.20%
QC value greater than the upper limit for Tl 351.924		Recovery = 119.30%				

V 290.880† 370046.8 4.787 mg/L 0.0050 4.787 mg/L 0.0050 0.10%
 QC value within limits for V 290.880 Recovery = 95.75%
 Zn 206.200† 192646.7 4.767 mg/L 0.0029 4.767 mg/L 0.0029 0.06%
 QC value within limits for Zn 206.200 Recovery = 95.33%
 Zr 343.823† 1304673.4 4.651 mg/L 0.0015 4.651 mg/L 0.0015 0.03%
 QC Failed. Continue with analysis.

Sequence No.: 80

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 8:53:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141171.8	94.2 %	0.74			0.78%
Y axial	3108055.0	98.6 %	0.46			0.46%
Ag 328.068†	47.9	0.0006 mg/L	0.00050	0.0006 mg/L	0.00050	89.92%
QC value within limits for Ag 328.068						Not calculated
Al 396.153†	-3.6	-0.0009 mg/L	0.00151	-0.0009 mg/L	0.00151	171.35%
QC value within limits for Al 396.153						Not calculated
As 188.979†	3.5	0.0018 mg/L	0.00075	0.0018 mg/L	0.00075	40.39%
QC value within limits for As 188.979						Not calculated
B 208.889†	196.1	0.0161 mg/L	0.00036	0.0161 mg/L	0.00036	2.22%
QC value within limits for B 208.889						Not calculated
Ba 233.527†	34.3	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	23.13%
QC value within limits for Ba 233.527						Not calculated
Be 313.107†	100.0	0.0006 mg/L	0.00012	0.0006 mg/L	0.00012	19.45%
QC value within limits for Be 313.107						Not calculated
Ca 317.933†	-2.5	-0.0005 mg/L	0.00182	-0.0005 mg/L	0.00182	355.35%
QC value within limits for Ca 317.933						Not calculated
Cd 228.802†	25.8	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	3.72%
QC value within limits for Cd 228.802						Not calculated
Co 228.616†	11.4	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	27.92%
QC value within limits for Co 228.616						Not calculated
Cr 267.716†	29.8	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	51.76%
QC value within limits for Cr 267.716						Not calculated
Cu 327.393†	184.3	0.0012 mg/L	0.00057	0.0012 mg/L	0.00057	49.15%
QC value within limits for Cu 327.393						Not calculated
Fe 238.204†	3.4	0.0326 mg/L	0.01930	0.0326 mg/L	0.01930	59.16%
QC value within limits for Fe 238.204						Not calculated
K 766.490†	32.8	0.0211 mg/L	0.03828	0.0211 mg/L	0.03828	181.21%
QC value within limits for K 766.490						Not calculated
Mg 285.213†	10.6	0.0011 mg/L	0.00046	0.0011 mg/L	0.00046	40.74%
QC value within limits for Mg 285.213						Not calculated
Mn 257.610†	-3.0	-0.0005 mg/L	0.00090	-0.0005 mg/L	0.00090	176.20%
QC value within limits for Mn 257.610						Not calculated
Mo 202.031†	26.3	0.0011 mg/L	0.00028	0.0011 mg/L	0.00028	24.27%
QC value within limits for Mo 202.031						Not calculated
Na 589.592†	87.5	0.0138 mg/L	0.00485	0.0138 mg/L	0.00485	35.09%
QC value within limits for Na 589.592						Not calculated
Ni 231.604†	25.4	0.0005 mg/L	0.00008	0.0005 mg/L	0.00008	14.43%
QC value within limits for Ni 231.604						Not calculated
Pb 220.353†	29.3	0.0042 mg/L	0.00048	0.0042 mg/L	0.00048	11.46%
QC value within limits for Pb 220.353						Not calculated
Sb 206.836†	13.8	0.0038 mg/L	0.00091	0.0038 mg/L	0.00091	24.01%
QC value within limits for Sb 206.836						Not calculated
Se 196.026†	0.2	0.0001 mg/L	0.00122	0.0001 mg/L	0.00122	>999.9%
QC value within limits for Se 196.026						Not calculated
Sn 189.927†	4.4	0.0007 mg/L	0.00101	0.0007 mg/L	0.00101	154.52%
QC value within limits for Sn 189.927						Not calculated
Ti 337.279†	10.0	0.0006 mg/L	0.00084	0.0006 mg/L	0.00084	148.91%
QC value within limits for Ti 337.279						Not calculated
Tl 351.924†	12.4	0.0029 mg/L	0.00555	0.0029 mg/L	0.00555	188.55%
QC value within limits for Tl 351.924						Not calculated
V 290.880†	-31.3	-0.0004 mg/L	0.00009	-0.0004 mg/L	0.00009	23.42%

QC value within limits for V 290.880 Recovery = Not calculated
 Zn 206.200† 43.0 0.0011 mg/L 0.00011 0.0011 mg/L 0.00011 9.98%
 QC value within limits for Zn 206.200 Recovery = Not calculated
 Zr 343.823† 80.7 0.0003 mg/L 0.00014 0.0003 mg/L 0.00014 47.34%
 All analyte(s) passed QC.

Sequence No.: 81
 Sample ID: B336862-BS4
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 110

Autosampler Location: 86
 Date Collected: 4/11/2023 8:59:25 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336862-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	147803.4	98.6	%	1.22			1.24%
Y axial	3167022.6	100	%	0.62			0.62%
Ag 328.068†	70405.2	0.8262	mg/L	0.01161	0.8262	mg/L 0.01161	1.41%
Al 396.153†	257042.6	59.89	mg/L	0.630	59.89	mg/L 0.630	1.05%
As 188.979†	3473.7	1.854	mg/L	0.0480	1.854	mg/L 0.0480	2.59%
B 208.889†	9878.8	0.7334	mg/L	0.01014	0.7334	mg/L 0.01014	1.38%
Ba 233.527†	331915.9	3.250	mg/L	0.0070	3.250	mg/L 0.0070	0.22%
Be 313.107†	144355.3	0.8637	mg/L	0.00179	0.8637	mg/L 0.00179	0.21%
Ca 317.933†	247218.7	51.36	mg/L	0.444	51.36	mg/L 0.444	0.87%
Cd 228.802†	111873.8	2.406	mg/L	0.0073	2.406	mg/L 0.0073	0.30%
Co 228.616†	50715.5	1.071	mg/L	0.0103	1.071	mg/L 0.0103	0.96%
Cr 267.716†	162739.6	2.190	mg/L	0.0005	2.190	mg/L 0.0005	0.02%
Cu 327.393†	239203.1	1.519	mg/L	0.0019	1.519	mg/L 0.0019	0.12%
Fe 238.204†	9993.9	96.01	mg/L	0.158	96.01	mg/L 0.158	0.16%
K 766.490†	29347.0	18.92	mg/L	0.075	18.92	mg/L 0.075	0.40%
Mg 285.213†	193662.0	20.57	mg/L	0.045	20.57	mg/L 0.045	0.22%
Mn 257.610†	24006.9	4.067	mg/L	0.0070	4.067	mg/L 0.0070	0.17%
Mo 202.031†	36293.4	1.585	mg/L	0.0187	1.585	mg/L 0.0187	1.18%
Na 589.592†	30604.3	4.833	mg/L	0.0143	4.833	mg/L 0.0143	0.30%
Ni 231.604†	84995.3	1.825	mg/L	0.0041	1.825	mg/L 0.0041	0.23%
Pb 220.353†	20423.7	2.897	mg/L	0.0328	2.897	mg/L 0.0328	1.13%
Sb 206.836†	430.4	0.0626	mg/L	0.00527	0.0626	mg/L 0.00527	8.43%
Se 196.026†	5995.8	2.286	mg/L	0.0340	2.286	mg/L 0.0340	1.49%
Sn 189.927†	1323.9	0.1988	mg/L	0.00768	0.1988	mg/L 0.00768	3.86%
Ti 337.279†	15112.2	0.8527	mg/L	0.03328	0.8527	mg/L 0.03328	3.90%
Tl 351.924†	4625.7	1.144	mg/L	0.0020	1.144	mg/L 0.0020	0.18%
V 290.880†	167531.4	2.137	mg/L	0.0031	2.137	mg/L 0.0031	0.15%
Zn 206.200†	101302.2	2.499	mg/L	0.0037	2.499	mg/L 0.0037	0.15%
Zr 343.823†	17230.9	0.0588	mg/L	0.00175	0.0588	mg/L 0.00175	2.98%

Sequence No.: 82
 Sample ID: B336862-BS5
 Analyst:
 Initial Sample Wt:
 Dilution:
 Wash Time (before sample): 220

Autosampler Location: 87
 Date Collected: 4/11/2023 9:05:14 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: B336862-BS5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	147683.8	98.5	%	0.93			0.94%
Y axial	3127463.4	99.2	%	0.46			0.47%
Ag 328.068†	64361.2	0.7553	mg/L	0.00762	0.7553	mg/L 0.00762	1.01%
Al 396.153†	226697.9	52.82	mg/L	0.108	52.82	mg/L 0.108	0.20%
As 188.979†	3168.4	1.691	mg/L	0.0158	1.691	mg/L 0.0158	0.93%
B 208.889†	8950.8	0.6636	mg/L	0.00602	0.6636	mg/L 0.00602	0.91%
Ba 233.527†	300599.8	2.943	mg/L	0.0038	2.943	mg/L 0.0038	0.13%
Be 313.107†	133900.1	0.8011	mg/L	0.00116	0.8011	mg/L 0.00116	0.14%
Ca 317.933†	217122.5	45.11	mg/L	0.079	45.11	mg/L 0.079	0.18%
Cd 228.802†	104990.9	2.258	mg/L	0.0045	2.258	mg/L 0.0045	0.20%

Co 228.616†	46914.7	0.9905 mg/L	0.00176	0.9905 mg/L	0.00176	0.18%
Cr 267.716†	151701.4	2.041 mg/L	0.0063	2.041 mg/L	0.0063	0.31%
Cu 327.393†	220082.6	1.398 mg/L	0.0034	1.398 mg/L	0.0034	0.24%
Fe 238.204†	9036.7	86.82 mg/L	1.310	86.82 mg/L	1.310	1.51%
K 766.490†	25911.3	16.70 mg/L	0.165	16.70 mg/L	0.165	0.99%
Mg 285.213†	174789.9	18.57 mg/L	0.013	18.57 mg/L	0.013	0.07%
Mn 257.610†	21825.5	3.697 mg/L	0.0510	3.697 mg/L	0.0510	1.38%
Mo 202.031†	33276.0	1.453 mg/L	0.0111	1.453 mg/L	0.0111	0.77%
Na 589.592†	27693.8	4.373 mg/L	0.0212	4.373 mg/L	0.0212	0.49%
Ni 231.604†	79943.7	1.716 mg/L	0.0016	1.716 mg/L	0.0016	0.09%
Pb 220.353†	18454.5	2.617 mg/L	0.0203	2.617 mg/L	0.0203	0.78%
Sb 206.836†	408.4	0.0610 mg/L	0.00152	0.0610 mg/L	0.00152	2.49%
Se 196.026†	5498.4	2.096 mg/L	0.0130	2.096 mg/L	0.0130	0.62%
Sn 189.927†	1238.6	0.1859 mg/L	0.00135	0.1859 mg/L	0.00135	0.73%
Ti 337.279†	13657.1	0.7706 mg/L	0.05876	0.7706 mg/L	0.05876	7.63%
Tl 351.924†	4349.5	1.074 mg/L	0.0077	1.074 mg/L	0.0077	0.72%
V 290.880†	154612.5	1.973 mg/L	0.0032	1.973 mg/L	0.0032	0.16%
Zn 206.200†	92693.6	2.286 mg/L	0.0049	2.286 mg/L	0.0049	0.21%
Zr 343.823†	15342.0	0.0523 mg/L	0.00036	0.0523 mg/L	0.00036	0.69%

Sequence No.: 83

Sample ID: B336855-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 88

Date Collected: 4/11/2023 9:11:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	138638.0	92.5 %		0.59			0.63%
Y axial	3099929.3	98.3 %		1.51			1.53%
Ag 328.068†	75.8	0.0009 mg/L		0.00011	0.0009 mg/L	0.00011	12.12%
Al 396.153†	57.5	0.0134 mg/L		0.00114	0.0134 mg/L	0.00114	8.50%
As 188.979†	-1.3	-0.0007 mg/L		0.00191	-0.0007 mg/L	0.00191	282.80%
B 208.889†	150.2	0.0124 mg/L		0.00055	0.0124 mg/L	0.00055	4.48%
Ba 233.527†	18.9	0.0002 mg/L		0.00013	0.0002 mg/L	0.00013	69.76%
Be 313.107†	7.3	0.0000 mg/L		0.00004	0.0000 mg/L	0.00004	80.72%
Ca 317.933†	1003.9	0.2086 mg/L		0.00157	0.2086 mg/L	0.00157	0.75%
Cd 228.802†	29.6	0.0006 mg/L		0.00013	0.0006 mg/L	0.00013	19.74%
Co 228.616†	-23.2	-0.0005 mg/L		0.00004	-0.0005 mg/L	0.00004	8.64%
Cr 267.716†	149.6	0.0020 mg/L		0.00014	0.0020 mg/L	0.00014	7.07%
Cu 327.393†	740.1	0.0047 mg/L		0.00034	0.0047 mg/L	0.00034	7.15%
Fe 238.204†	5.1	0.0487 mg/L		0.00440	0.0487 mg/L	0.00440	9.03%
K 766.490†	132.2	0.0852 mg/L		0.01607	0.0852 mg/L	0.01607	18.86%
Mg 285.213†	70.0	0.0074 mg/L		0.00025	0.0074 mg/L	0.00025	3.39%
Mn 257.610†	-0.6	-0.0001 mg/L		0.00024	-0.0001 mg/L	0.00024	215.68%
Mo 202.031†	24.9	0.0011 mg/L		0.00015	0.0011 mg/L	0.00015	13.50%
Na 589.592†	218.8	0.0346 mg/L		0.00631	0.0346 mg/L	0.00631	18.27%
Ni 231.604†	12.6	0.0003 mg/L		0.00014	0.0003 mg/L	0.00014	52.18%
Pb 220.353†	61.9	0.0088 mg/L		0.00176	0.0088 mg/L	0.00176	20.04%
Sb 206.836†	16.6	0.0045 mg/L		0.00169	0.0045 mg/L	0.00169	37.47%
Se 196.026†	3.7	0.0014 mg/L		0.00403	0.0014 mg/L	0.00403	284.93%
Sn 189.927†	186.0	0.0273 mg/L		0.00093	0.0273 mg/L	0.00093	3.40%
Ti 337.279†	39.5	0.0022 mg/L		0.00140	0.0022 mg/L	0.00140	62.70%
Tl 351.924†	-26.1	-0.0061 mg/L		0.00932	-0.0061 mg/L	0.00932	152.73%
V 290.880†	-39.0	-0.0005 mg/L		0.00026	-0.0005 mg/L	0.00026	55.64%
Zn 206.200†	3704.9	0.0913 mg/L		0.00131	0.0913 mg/L	0.00131	1.44%
Zr 343.823†	97.4	0.0003 mg/L		0.00019	0.0003 mg/L	0.00019	55.45%

Sequence No.: 84

Sample ID: B336855-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 89

Date Collected: 4/11/2023 9:17:50 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	145019.0	96.7	%	0.54			0.55%
Y axial	3077197.8	97.6	%	0.42			0.43%
Ag 328.068†	62096.3	0.7287	mg/L	0.00733	0.7287 mg/L	0.00733	1.01%
Al 396.153†	341637.9	79.61	mg/L	0.222	79.61 mg/L	0.222	0.28%
As 188.979†	3130.0	1.680	mg/L	0.0183	1.680 mg/L	0.0183	1.09%
B 208.889†	10992.2	0.8119	mg/L	0.00705	0.8119 mg/L	0.00705	0.87%
Ba 233.527†	297851.3	2.917	mg/L	0.0095	2.917 mg/L	0.0095	0.32%
Be 313.107†	124754.0	0.7456	mg/L	0.00845	0.7456 mg/L	0.00845	1.13%
Ca 317.933†	218472.5	45.39	mg/L	0.083	45.39 mg/L	0.083	0.18%
Cd 228.802†	93389.8	2.008	mg/L	0.0055	2.008 mg/L	0.0055	0.28%
Co 228.616†	43443.3	0.9124	mg/L	0.00342	0.9124 mg/L	0.00342	0.37%
Cr 267.716†	144612.2	1.947	mg/L	0.0053	1.947 mg/L	0.0053	0.27%
Cu 327.393†	215008.4	1.370	mg/L	0.0036	1.370 mg/L	0.0036	0.26%
Fe 238.204†	14561.9	139.9	mg/L	2.02	139.9 mg/L	2.02	1.45%
K 766.490†	32581.4	21.00	mg/L	0.232	21.00 mg/L	0.232	1.10%
Mg 285.213†	206450.0	21.94	mg/L	0.070	21.94 mg/L	0.070	0.32%
Mn 257.610†	22178.7	3.757	mg/L	0.0377	3.757 mg/L	0.0377	1.00%
Mo 202.031†	42190.4	1.843	mg/L	0.0094	1.843 mg/L	0.0094	0.51%
Na 589.592†	28184.0	4.451	mg/L	0.0315	4.451 mg/L	0.0315	0.71%
Ni 231.604†	71613.4	1.538	mg/L	0.0078	1.538 mg/L	0.0078	0.51%
Pb 220.353†	17615.5	2.501	mg/L	0.0156	2.501 mg/L	0.0156	0.63%
Sb 206.836†	3812.0	0.9874	mg/L	0.00860	0.9874 mg/L	0.00860	0.87%
Se 196.026†	5155.4	1.965	mg/L	0.0106	1.965 mg/L	0.0106	0.54%
Sn 189.927†	9593.3	1.428	mg/L	0.0036	1.428 mg/L	0.0036	0.25%
Ti 337.279†	66258.7	3.739	mg/L	0.0387	3.739 mg/L	0.0387	1.03%
Tl 351.924†	4102.9	1.041	mg/L	0.0096	1.041 mg/L	0.0096	0.93%
V 290.880†	166988.0	2.132	mg/L	0.0043	2.132 mg/L	0.0043	0.20%
Zn 206.200†	91894.4	2.263	mg/L	0.0069	2.263 mg/L	0.0069	0.30%
Zr 343.823†	18452.8	0.0619	mg/L	0.00087	0.0619 mg/L	0.00087	1.40%

Sequence No.: 85

Sample ID: B336855-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 90

Date Collected: 4/11/2023 9:23:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	144186.3	96.2	%	0.47			0.48%
Y axial	3080141.5	97.7	%	0.64			0.65%
Ag 328.068†	65943.2	0.7738	mg/L	0.00567	0.7738 mg/L	0.00567	0.73%
Al 396.153†	379388.7	88.41	mg/L	0.794	88.41 mg/L	0.794	0.90%
As 188.979†	3423.4	1.837	mg/L	0.0481	1.837 mg/L	0.0481	2.62%
B 208.889†	12290.7	0.9103	mg/L	0.01673	0.9103 mg/L	0.01673	1.84%
Ba 233.527†	330344.3	3.235	mg/L	0.0031	3.235 mg/L	0.0031	0.10%
Be 313.107†	139122.0	0.8316	mg/L	0.00056	0.8316 mg/L	0.00056	0.07%
Ca 317.933†	241515.7	50.18	mg/L	0.542	50.18 mg/L	0.542	1.08%
Cd 228.802†	107579.5	2.313	mg/L	0.0041	2.313 mg/L	0.0041	0.18%
Co 228.616†	48617.5	1.021	mg/L	0.0169	1.021 mg/L	0.0169	1.65%
Cr 267.716†	158803.5	2.138	mg/L	0.0051	2.138 mg/L	0.0051	0.24%
Cu 327.393†	236334.9	1.505	mg/L	0.0012	1.505 mg/L	0.0012	0.08%
Fe 238.204†	15866.4	152.4	mg/L	0.11	152.4 mg/L	0.11	0.07%
K 766.490†	35223.0	22.70	mg/L	0.079	22.70 mg/L	0.079	0.35%
Mg 285.213†	223734.0	23.78	mg/L	0.173	23.78 mg/L	0.173	0.73%
Mn 257.610†	23693.8	4.014	mg/L	0.0079	4.014 mg/L	0.0079	0.20%
Mo 202.031†	46102.4	2.014	mg/L	0.0388	2.014 mg/L	0.0388	1.93%
Na 589.592†	30818.8	4.867	mg/L	0.0238	4.867 mg/L	0.0238	0.49%
Ni 231.604†	81093.6	1.741	mg/L	0.0027	1.741 mg/L	0.0027	0.15%
Pb 220.353†	18971.9	2.693	mg/L	0.0576	2.693 mg/L	0.0576	2.14%
Sb 206.836†	4285.7	1.112	mg/L	0.0261	1.112 mg/L	0.0261	2.34%
Se 196.026†	5775.6	2.202	mg/L	0.0450	2.202 mg/L	0.0450	2.04%
Sn 189.927†	10394.4	1.547	mg/L	0.0353	1.547 mg/L	0.0353	2.28%

Ti 337.279†	71464.6	4.032 mg/L	0.0345	4.032 mg/L	0.0345	0.85%
Tl 351.924†	4494.7	1.140 mg/L	0.0296	1.140 mg/L	0.0296	2.60%
V 290.880†	182935.6	2.335 mg/L	0.0060	2.335 mg/L	0.0060	0.26%
Zn 206.200†	102243.2	2.518 mg/L	0.0086	2.518 mg/L	0.0086	0.34%
Zr 343.823†	19818.3	0.0665 mg/L	0.00104	0.0665 mg/L	0.00104	1.57%

Sequence No.: 86

Sample ID: B336855-BS3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 91

Date Collected: 4/11/2023 9:29:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	143826.2	96.0 %		0.42			0.43%
Y axial	3031809.1	96.1 %		0.81			0.84%
Ag 328.068†	61571.8	0.7225 mg/L		0.00757	0.7225 mg/L	0.00757	1.05%
Al 396.153†	341787.4	79.65 mg/L		0.236	79.65 mg/L	0.236	0.30%
As 188.979†	3110.3	1.670 mg/L		0.0503	1.670 mg/L	0.0503	3.01%
B 208.889†	11095.7	0.8209 mg/L		0.02372	0.8209 mg/L	0.02372	2.89%
Ba 233.527†	291816.5	2.857 mg/L		0.0016	2.857 mg/L	0.0016	0.06%
Be 313.107†	123818.0	0.7399 mg/L		0.00049	0.7399 mg/L	0.00049	0.07%
Ca 317.933†	218553.4	45.41 mg/L		0.174	45.41 mg/L	0.174	0.38%
Cd 228.802†	92316.3	1.984 mg/L		0.0013	1.984 mg/L	0.0013	0.07%
Co 228.616†	43252.7	0.9081 mg/L		0.02749	0.9081 mg/L	0.02749	3.03%
Cr 267.716†	143127.0	1.927 mg/L		0.0029	1.927 mg/L	0.0029	0.15%
Cu 327.393†	214171.9	1.365 mg/L		0.0022	1.365 mg/L	0.0022	0.16%
Fe 238.204†	14958.5	143.7 mg/L		0.61	143.7 mg/L	0.61	0.43%
K 766.490†	32506.2	20.95 mg/L		0.016	20.95 mg/L	0.016	0.08%
Mg 285.213†	205469.1	21.84 mg/L		0.039	21.84 mg/L	0.039	0.18%
Mn 257.610†	21966.1	3.721 mg/L		0.0056	3.721 mg/L	0.0056	0.15%
Mo 202.031†	42002.6	1.835 mg/L		0.0526	1.835 mg/L	0.0526	2.87%
Na 589.592†	27963.6	4.416 mg/L		0.0074	4.416 mg/L	0.0074	0.17%
Ni 231.604†	71447.3	1.534 mg/L		0.0444	1.534 mg/L	0.0444	2.89%
Pb 220.353†	17451.7	2.477 mg/L		0.0668	2.477 mg/L	0.0668	2.70%
Sb 206.836†	3874.8	1.005 mg/L		0.0377	1.005 mg/L	0.0377	3.76%
Se 196.026†	5224.7	1.992 mg/L		0.0907	1.992 mg/L	0.0907	4.56%
Sn 189.927†	9503.6	1.416 mg/L		0.0372	1.416 mg/L	0.0372	2.63%
Ti 337.279†	69339.2	3.912 mg/L		0.0073	3.912 mg/L	0.0073	0.19%
Tl 351.924†	3954.2	1.008 mg/L		0.0215	1.008 mg/L	0.0215	2.14%
V 290.880†	167647.5	2.139 mg/L		0.0031	2.139 mg/L	0.0031	0.14%
Zn 206.200†	92453.7	2.276 mg/L		0.0073	2.276 mg/L	0.0073	0.32%
Zr 343.823†	18422.7	0.0617 mg/L		0.00185	0.0617 mg/L	0.00185	2.99%

Sequence No.: 87

Sample ID: B336855-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 92

Date Collected: 4/11/2023 9:35:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y radial	143160.7	95.5 %		0.86			0.90%
Y axial	3046698.3	96.6 %		1.36			1.41%
Ag 328.068†	63975.0	0.7507 mg/L		0.02622	0.7507 mg/L	0.02622	3.49%
Al 396.153†	363799.5	84.78 mg/L		0.750	84.78 mg/L	0.750	0.88%
As 188.979†	3234.9	1.737 mg/L		0.0326	1.737 mg/L	0.0326	1.88%
B 208.889†	11696.0	0.8652 mg/L		0.01739	0.8652 mg/L	0.01739	2.01%
Ba 233.527†	306604.6	3.002 mg/L		0.0049	3.002 mg/L	0.0049	0.16%
Be 313.107†	133527.3	0.7981 mg/L		0.00239	0.7981 mg/L	0.00239	0.30%
Ca 317.933†	232186.5	48.24 mg/L		0.420	48.24 mg/L	0.420	0.87%
Cd 228.802†	99779.5	2.145 mg/L		0.0028	2.145 mg/L	0.0028	0.13%

Co 228.616†	46107.6	0.9686 mg/L	0.01746	0.9686 mg/L	0.01746	1.80%
Cr 267.716†	153593.3	2.068 mg/L	0.0011	2.068 mg/L	0.0011	0.05%
Cu 327.393†	229506.0	1.462 mg/L	0.0033	1.462 mg/L	0.0033	0.23%
Fe 238.204†	15013.6	144.2 mg/L	0.34	144.2 mg/L	0.34	0.24%
K 766.490†	33727.3	21.74 mg/L	0.129	21.74 mg/L	0.129	0.59%
Mg 285.213†	217961.1	23.17 mg/L	0.181	23.17 mg/L	0.181	0.78%
Mn 257.610†	23165.7	3.925 mg/L	0.0236	3.925 mg/L	0.0236	0.60%
Mo 202.031†	44349.6	1.937 mg/L	0.0347	1.937 mg/L	0.0347	1.79%
Na 589.592†	29481.5	4.656 mg/L	0.0386	4.656 mg/L	0.0386	0.83%
Ni 231.604†	77481.7	1.664 mg/L	0.0035	1.664 mg/L	0.0035	0.21%
Pb 220.353†	18153.0	2.577 mg/L	0.0406	2.577 mg/L	0.0406	1.57%
Sb 206.836†	4080.6	1.058 mg/L	0.0035	1.058 mg/L	0.0035	0.33%
Se 196.026†	5464.8	2.083 mg/L	0.0635	2.083 mg/L	0.0635	3.05%
Sn 189.927†	9856.8	1.467 mg/L	0.0176	1.467 mg/L	0.0176	1.20%
Ti 337.279†	68091.3	3.842 mg/L	0.0210	3.842 mg/L	0.0210	0.55%
Tl 351.924†	4204.0	1.067 mg/L	0.0350	1.067 mg/L	0.0350	3.28%
V 290.880†	175787.9	2.244 mg/L	0.0005	2.244 mg/L	0.0005	0.02%
Zn 206.200†	96907.5	2.387 mg/L	0.0040	2.387 mg/L	0.0040	0.17%
Zr 343.823†	18793.3	0.0630 mg/L	0.00120	0.0630 mg/L	0.00120	1.91%

Sequence No.: 88

Sample ID: B336855-BS5

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 93

Date Collected: 4/11/2023 9:41:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336855-BS5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	139733.3	93.2 %		1.16			1.24%
Y axial	2988852.4	94.8 %		0.93			0.98%
Ag 328.068†	62329.1	0.7314 mg/L		0.01046	0.7314 mg/L	0.01046	1.43%
Al 396.153†	348548.0	81.22 mg/L		0.505	81.22 mg/L	0.505	0.62%
As 188.979†	3111.6	1.671 mg/L		0.0121	1.671 mg/L	0.0121	0.73%
B 208.889†	11266.0	0.8342 mg/L		0.01366	0.8342 mg/L	0.01366	1.64%
Ba 233.527†	299034.8	2.928 mg/L		0.0041	2.928 mg/L	0.0041	0.14%
Be 313.107†	128510.4	0.7680 mg/L		0.00060	0.7680 mg/L	0.00060	0.08%
Ca 317.933†	219651.9	45.64 mg/L		0.341	45.64 mg/L	0.341	0.75%
Cd 228.802†	94677.0	2.035 mg/L		0.0040	2.035 mg/L	0.0040	0.19%
Co 228.616†	44245.2	0.9292 mg/L		0.01242	0.9292 mg/L	0.01242	1.34%
Cr 267.716†	149766.1	2.016 mg/L		0.0022	2.016 mg/L	0.0022	0.11%
Cu 327.393†	220599.6	1.405 mg/L		0.0042	1.405 mg/L	0.0042	0.30%
Fe 238.204†	14509.1	139.4 mg/L		0.14	139.4 mg/L	0.14	0.10%
K 766.490†	33551.0	21.63 mg/L		0.030	21.63 mg/L	0.030	0.14%
Mg 285.213†	211727.0	22.50 mg/L		0.123	22.50 mg/L	0.123	0.55%
Mn 257.610†	22413.9	3.797 mg/L		0.0113	3.797 mg/L	0.0113	0.30%
Mo 202.031†	42363.1	1.850 mg/L		0.0258	1.850 mg/L	0.0258	1.39%
Na 589.592†	28837.1	4.554 mg/L		0.0144	4.554 mg/L	0.0144	0.32%
Ni 231.604†	73397.9	1.576 mg/L		0.0193	1.576 mg/L	0.0193	1.22%
Pb 220.353†	17355.0	2.464 mg/L		0.0356	2.464 mg/L	0.0356	1.44%
Sb 206.836†	3989.4	1.035 mg/L		0.0217	1.035 mg/L	0.0217	2.09%
Se 196.026†	5259.0	2.005 mg/L		0.0105	2.005 mg/L	0.0105	0.53%
Sn 189.927†	9520.4	1.418 mg/L		0.0192	1.418 mg/L	0.0192	1.35%
Ti 337.279†	67909.9	3.832 mg/L		0.0135	3.832 mg/L	0.0135	0.35%
Tl 351.924†	4043.0	1.026 mg/L		0.0256	1.026 mg/L	0.0256	2.49%
V 290.880†	172554.1	2.202 mg/L		0.0032	2.202 mg/L	0.0032	0.15%
Zn 206.200†	94853.2	2.336 mg/L		0.0061	2.336 mg/L	0.0061	0.26%
Zr 343.823†	19321.4	0.0651 mg/L		0.00525	0.0651 mg/L	0.00525	8.07%

Sequence No.: 89

Sample ID: B336857-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 94

Date Collected: 4/11/2023 9:47:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	143242.8	95.6	%	1.54			1.61%
Y axial	3151000.0	99.9	%	0.88			0.88%
Ag 328.068†	-38.8	-0.0005	mg/L	0.00033	-0.0005	mg/L	0.00033 73.13%
Al 396.153†	111.3	0.0261	mg/L	0.00354	0.0261	mg/L	0.00354 13.58%
As 188.979†	-35.8	-0.0187	mg/L	0.00172	-0.0187	mg/L	0.00172 9.21%
B 208.889†	227.2	0.0190	mg/L	0.00062	0.0190	mg/L	0.00062 3.29%
Ba 233.527†	179.2	0.0018	mg/L	0.00005	0.0018	mg/L	0.00005 2.89%
Be 313.107†	-35.7	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003 11.59%
Ca 317.933†	3880.1	0.8062	mg/L	0.00977	0.8062	mg/L	0.00977 1.21%
Cd 228.802†	22.5	0.0006	mg/L	0.00018	0.0006	mg/L	0.00018 30.13%
Co 228.616†	-14.1	-0.0003	mg/L	0.00028	-0.0003	mg/L	0.00028 88.76%
Cr 267.716†	147.2	0.0020	mg/L	0.00009	0.0020	mg/L	0.00009 4.38%
Cu 327.393†	1118.3	0.0071	mg/L	0.00026	0.0071	mg/L	0.00026 3.68%
Fe 238.204†	6.1	0.0573	mg/L	0.01596	0.0573	mg/L	0.01596 27.87%
K 766.490†	932.5	0.6011	mg/L	0.03298	0.6011	mg/L	0.03298 5.49%
Mg 285.213†	17122.0	1.816	mg/L	0.0040	1.816	mg/L	0.0040 0.22%
Mn 257.610†	22.5	0.0038	mg/L	0.00014	0.0038	mg/L	0.00014 3.78%
Mo 202.031†	-75.8	-0.0033	mg/L	0.00037	-0.0033	mg/L	0.00037 11.22%
Na 589.592†	11655.0	1.840	mg/L	0.0109	1.840	mg/L	0.0109 0.59%
Ni 231.604†	-13.3	-0.0003	mg/L	0.00015	-0.0003	mg/L	0.00015 51.73%
Pb 220.353†	31.0	0.0044	mg/L	0.00115	0.0044	mg/L	0.00115 26.31%
Sb 206.836†	24.7	0.0067	mg/L	0.00078	0.0067	mg/L	0.00078 11.62%
Se 196.026†	116.5	0.0445	mg/L	0.00354	0.0445	mg/L	0.00354 7.97%
Sn 189.927†	261.3	0.0384	mg/L	0.00046	0.0384	mg/L	0.00046 1.20%
Ti 337.279†	116.9	0.0066	mg/L	0.00050	0.0066	mg/L	0.00050 7.65%
Tl 351.924†	-15.8	-0.0037	mg/L	0.00354	-0.0037	mg/L	0.00354 95.61%
V 290.880†	240.2	0.0024	mg/L	0.00029	0.0024	mg/L	0.00029 12.47%
Zn 206.200†	32880.5	0.8104	mg/L	0.01219	0.8104	mg/L	0.01219 1.50%
Zr 343.823†	43.5	0.0002	mg/L	0.00029	0.0002	mg/L	0.00029 189.05%

Sequence No.: 90

Sample ID: B336857-BS1

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 95

Date Collected: 4/11/2023 9:54:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141446.0	94.4	%	0.35			0.37%
Y axial	3018965.5	95.7	%	0.63			0.66%
Ag 328.068†	62879.2	0.7378	mg/L	0.01341	0.7378	mg/L	0.01341 1.82%
Al 396.153†	389906.9	90.87	mg/L	0.572	90.87	mg/L	0.572 0.63%
As 188.979†	3237.5	1.737	mg/L	0.0246	1.737	mg/L	0.0246 1.42%
B 208.889†	11507.6	0.8538	mg/L	0.01865	0.8538	mg/L	0.01865 2.18%
Ba 233.527†	298199.4	2.920	mg/L	0.0007	2.920	mg/L	0.0007 0.02%
Be 313.107†	125510.1	0.7501	mg/L	0.00024	0.7501	mg/L	0.00024 0.03%
Ca 317.933†	224687.6	46.68	mg/L	0.375	46.68	mg/L	0.375 0.80%
Cd 228.802†	90841.9	1.952	mg/L	0.0007	1.952	mg/L	0.0007 0.04%
Co 228.616†	43461.2	0.9112	mg/L	0.01400	0.9112	mg/L	0.01400 1.54%
Cr 267.716†	143299.2	1.929	mg/L	0.0041	1.929	mg/L	0.0041 0.21%
Cu 327.393†	216232.1	1.378	mg/L	0.0007	1.378	mg/L	0.0007 0.05%
Fe 238.204†	14382.2	138.2	mg/L	0.26	138.2	mg/L	0.26 0.19%
K 766.490†	37183.6	23.97	mg/L	0.080	23.97	mg/L	0.080 0.33%
Mg 285.213†	246797.5	26.22	mg/L	0.174	26.22	mg/L	0.174 0.66%
Mn 257.610†	21925.1	3.714	mg/L	0.0094	3.714	mg/L	0.0094 0.25%
Mo 202.031†	42493.9	1.856	mg/L	0.0262	1.856	mg/L	0.0262 1.41%
Na 589.592†	38580.2	6.092	mg/L	0.0282	6.092	mg/L	0.0282 0.46%
Ni 231.604†	72396.4	1.555	mg/L	0.0219	1.555	mg/L	0.0219 1.41%
Pb 220.353†	17064.5	2.424	mg/L	0.0401	2.424	mg/L	0.0401 1.66%
Sb 206.836†	6230.5	1.651	mg/L	0.0332	1.651	mg/L	0.0332 2.01%
Se 196.026†	6022.2	2.296	mg/L	0.0328	2.296	mg/L	0.0328 1.43%
Sn 189.927†	9978.8	1.489	mg/L	0.0230	1.489	mg/L	0.0230 1.54%

Ti 337.279†	81861.6	4.619 mg/L	0.0010	4.619 mg/L	0.0010	0.02%
Tl 351.924†	4064.2	1.027 mg/L	0.0174	1.027 mg/L	0.0174	1.70%
V 290.880†	167849.8	2.142 mg/L	0.0006	2.142 mg/L	0.0006	0.03%
Zn 206.200†	120128.4	2.959 mg/L	0.0062	2.959 mg/L	0.0062	0.21%
Zr 343.823†	23864.4	0.0813 mg/L	0.00166	0.0813 mg/L	0.00166	2.04%

Sequence No.: 91

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 10:00:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	139626.7	93.2 %		1.00			1.07%
Y axial	3010433.1	95.5 %		0.84			0.88%
Ag 328.068†	201120.6	2.343 mg/L		0.0127	2.343 mg/L	0.0127	0.54%
QC value within limits for Ag 328.068				Recovery = 93.73%			
Al 396.153†	41367.6	9.462 mg/L		0.0219	9.462 mg/L	0.0219	0.23%
QC value within limits for Al 396.153				Recovery = 94.62%			
As 188.979†	8796.4	4.651 mg/L		0.0612	4.651 mg/L	0.0612	1.31%
QC value within limits for As 188.979				Recovery = 93.02%			
B 208.889†	56005.4	4.380 mg/L		0.0611	4.380 mg/L	0.0611	1.40%
QC value less than the lower limit for B 208.889				Recovery = 87.60%			
Ba 233.527†	491365.0	4.813 mg/L		0.0073	4.813 mg/L	0.0073	0.15%
QC value within limits for Ba 233.527				Recovery = 96.25%			
Be 313.107†	763213.6	4.589 mg/L		0.0195	4.589 mg/L	0.0195	0.43%
QC value within limits for Be 313.107				Recovery = 91.77%			
Ca 317.933†	44528.1	9.252 mg/L		0.0189	9.252 mg/L	0.0189	0.20%
QC value within limits for Ca 317.933				Recovery = 92.52%			
Cd 228.802†	222225.0	4.784 mg/L		0.0101	4.784 mg/L	0.0101	0.21%
QC value within limits for Cd 228.802				Recovery = 95.69%			
Co 228.616†	223984.7	4.730 mg/L		0.0066	4.730 mg/L	0.0066	0.14%
QC value within limits for Co 228.616				Recovery = 94.61%			
Cr 267.716†	355726.5	4.784 mg/L		0.0057	4.784 mg/L	0.0057	0.12%
QC value within limits for Cr 267.716				Recovery = 95.67%			
Cu 327.393†	742831.2	4.720 mg/L		0.0100	4.720 mg/L	0.0100	0.21%
QC value within limits for Cu 327.393				Recovery = 94.40%			
Fe 238.204†	462.2	4.461 mg/L		0.0434	4.461 mg/L	0.0434	0.97%
QC value less than the lower limit for Fe 238.204				Recovery = 89.23%			
K 766.490†	15176.9	9.783 mg/L		0.0310	9.783 mg/L	0.0310	0.32%
QC value within limits for K 766.490				Recovery = 97.83%			
Mg 285.213†	91049.4	9.557 mg/L		0.0133	9.557 mg/L	0.0133	0.14%
QC value within limits for Mg 285.213				Recovery = 95.57%			
Mn 257.610†	27583.9	4.673 mg/L		0.0189	4.673 mg/L	0.0189	0.40%
QC value within limits for Mn 257.610				Recovery = 93.46%			
Mo 202.031†	108614.8	4.744 mg/L		0.0099	4.744 mg/L	0.0099	0.21%
QC value within limits for Mo 202.031				Recovery = 94.89%			
Na 589.592†	62731.4	9.906 mg/L		0.0145	9.906 mg/L	0.0145	0.15%
QC value within limits for Na 589.592				Recovery = 99.06%			
Ni 231.604†	221596.1	4.758 mg/L		0.0048	4.758 mg/L	0.0048	0.10%
QC value within limits for Ni 231.604				Recovery = 95.16%			
Pb 220.353†	33561.3	4.766 mg/L		0.0595	4.766 mg/L	0.0595	1.25%
QC value within limits for Pb 220.353				Recovery = 95.32%			
Sb 206.836†	16982.5	4.579 mg/L		0.0402	4.579 mg/L	0.0402	0.88%
QC value within limits for Sb 206.836				Recovery = 91.57%			
Se 196.026†	12080.8	4.604 mg/L		0.0461	4.604 mg/L	0.0461	1.00%
QC value within limits for Se 196.026				Recovery = 92.07%			
Sn 189.927†	32388.5	4.779 mg/L		0.0676	4.779 mg/L	0.0676	1.41%
QC value within limits for Sn 189.927				Recovery = 95.58%			
Ti 337.279†	83219.2	4.693 mg/L		0.0177	4.693 mg/L	0.0177	0.38%
QC value within limits for Ti 337.279				Recovery = 93.86%			
Tl 351.924†	12942.3	3.011 mg/L		0.0361	3.011 mg/L	0.0361	1.20%
QC value greater than the upper limit for Tl 351.924				Recovery = 120.43%			
V 290.880†	385834.7	4.989 mg/L		0.0069	4.989 mg/L	0.0069	0.14%
QC value within limits for V 290.880				Recovery = 99.79%			

Zn 206.200† 197661.2 4.891 mg/L 0.0153 4.891 mg/L 0.0153 0.31%
 QC value within limits for Zn 206.200 Recovery = 97.81%
 Zr 343.823† 1338679.9 4.773 mg/L 0.0073 4.773 mg/L 0.0073 0.15%
 QC Failed. Continue with analysis.

Sequence No.: 92

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 10:07:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	138781.4	92.6 %	0.18			0.20%
Y axial	3089083.1	98.0 %	1.82			1.86%
Ag 328.068†	432.8	0.0051 mg/L	0.00081	0.0051 mg/L	0.00081	15.95%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 396.153†	2.3	0.0005 mg/L	0.00339	0.0005 mg/L	0.00339	692.22%
QC value within limits for Al 396.153						Recovery = Not calculated
As 188.979†	-1.5	-0.0008 mg/L	0.00050	-0.0008 mg/L	0.00050	63.84%
QC value within limits for As 188.979						Recovery = Not calculated
B 208.889†	200.2	0.0165 mg/L	0.00034	0.0165 mg/L	0.00034	2.08%
QC value within limits for B 208.889						Recovery = Not calculated
Ba 233.527†	25.4	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	34.98%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 313.107†	110.5	0.0007 mg/L	0.00014	0.0007 mg/L	0.00014	20.38%
QC value within limits for Be 313.107						Recovery = Not calculated
Ca 317.933†	2.4	0.0005 mg/L	0.00059	0.0005 mg/L	0.00059	118.27%
QC value within limits for Ca 317.933						Recovery = Not calculated
Cd 228.802†	24.0	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	7.73%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	8.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	11.69%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	49.5	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	15.17%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 327.393†	181.7	0.0012 mg/L	0.00008	0.0012 mg/L	0.00008	6.86%
QC value within limits for Cu 327.393						Recovery = Not calculated
Fe 238.204†	4.4	0.0420 mg/L	0.00934	0.0420 mg/L	0.00934	22.22%
QC value within limits for Fe 238.204						Recovery = Not calculated
K 766.490†	37.3	0.0240 mg/L	0.02806	0.0240 mg/L	0.02806	116.84%
QC value within limits for K 766.490						Recovery = Not calculated
Mg 285.213†	10.0	0.0011 mg/L	0.00091	0.0011 mg/L	0.00091	85.36%
QC value within limits for Mg 285.213						Recovery = Not calculated
Mn 257.610†	-0.7	-0.0001 mg/L	0.00060	-0.0001 mg/L	0.00060	480.00%
QC value within limits for Mn 257.610						Recovery = Not calculated
Mo 202.031†	31.7	0.0014 mg/L	0.00007	0.0014 mg/L	0.00007	4.98%
QC value within limits for Mo 202.031						Recovery = Not calculated
Na 589.592†	93.7	0.0148 mg/L	0.00404	0.0148 mg/L	0.00404	27.30%
QC value within limits for Na 589.592						Recovery = Not calculated
Ni 231.604†	17.5	0.0004 mg/L	0.00023	0.0004 mg/L	0.00023	61.25%
QC value within limits for Ni 231.604						Recovery = Not calculated
Pb 220.353†	31.5	0.0045 mg/L	0.00058	0.0045 mg/L	0.00058	12.94%
QC value within limits for Pb 220.353						Recovery = Not calculated
Sb 206.836†	16.7	0.0046 mg/L	0.00214	0.0046 mg/L	0.00214	46.85%
QC value within limits for Sb 206.836						Recovery = Not calculated
Se 196.026†	1.5	0.0006 mg/L	0.00262	0.0006 mg/L	0.00262	451.03%
QC value within limits for Se 196.026						Recovery = Not calculated
Sn 189.927†	-1.6	-0.0002 mg/L	0.00089	-0.0002 mg/L	0.00089	373.40%
QC value within limits for Sn 189.927						Recovery = Not calculated
Ti 337.279†	14.0	0.0008 mg/L	0.00013	0.0008 mg/L	0.00013	16.22%
QC value within limits for Ti 337.279						Recovery = Not calculated
Tl 351.924†	-27.1	-0.0063 mg/L	0.00788	-0.0063 mg/L	0.00788	124.27%
QC value within limits for Tl 351.924						Recovery = Not calculated
V 290.880†	-9.2	-0.0001 mg/L	0.00024	-0.0001 mg/L	0.00024	284.26%
QC value within limits for V 290.880						Recovery = Not calculated
Zn 206.200†	55.2	0.0014 mg/L	0.00019	0.0014 mg/L	0.00019	14.27%

QC value within limits for Zn 206.200 Recovery = Not calculated

Zr 343.823† 76.7 0.0003 mg/L 0.00011 0.0003 mg/L 0.00011 39.67%

All analyte(s) passed QC.

Sequence No.: 93

Sample ID: B336857-BS2

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 110

Autosampler Location: 96

Date Collected: 4/11/2023 10:13:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140974.2	94.1 %		0.45			0.48%
Y axial	3007839.2	95.4 %		0.49			0.52%
Ag 328.068†	60158.3	0.7059 mg/L		0.00286	0.7059 mg/L	0.00286	0.41%
Al 396.153†	381014.0	88.79 mg/L		0.644	88.79 mg/L	0.644	0.73%
As 188.979†	3278.8	1.758 mg/L		0.0132	1.758 mg/L	0.0132	0.75%
B 208.889†	11981.9	0.8904 mg/L		0.00680	0.8904 mg/L	0.00680	0.76%
Ba 233.527†	305687.0	2.993 mg/L		0.0034	2.993 mg/L	0.0034	0.11%
Be 313.107†	132731.1	0.7933 mg/L		0.00243	0.7933 mg/L	0.00243	0.31%
Ca 317.933†	230376.3	47.87 mg/L		0.396	47.87 mg/L	0.396	0.83%
Cd 228.802†	94311.3	2.027 mg/L		0.0026	2.027 mg/L	0.0026	0.13%
Co 228.616†	44778.0	0.9394 mg/L		0.00605	0.9394 mg/L	0.00605	0.64%
Cr 267.716†	150330.8	2.023 mg/L		0.0016	2.023 mg/L	0.0016	0.08%
Cu 327.393†	226847.9	1.445 mg/L		0.0020	1.445 mg/L	0.0020	0.14%
Fe 238.204†	13723.6	131.8 mg/L		0.64	131.8 mg/L	0.64	0.48%
K 766.490†	35961.5	23.18 mg/L		0.029	23.18 mg/L	0.029	0.12%
Mg 285.213†	242138.0	25.73 mg/L		0.180	25.73 mg/L	0.180	0.70%
Mn 257.610†	22555.0	3.821 mg/L		0.0196	3.821 mg/L	0.0196	0.51%
Mo 202.031†	43637.6	1.906 mg/L		0.0152	1.906 mg/L	0.0152	0.80%
Na 589.592†	41015.8	6.477 mg/L		0.0215	6.477 mg/L	0.0215	0.33%
Ni 231.604†	75269.7	1.616 mg/L		0.0134	1.616 mg/L	0.0134	0.83%
Pb 220.353†	17527.5	2.490 mg/L		0.0233	2.490 mg/L	0.0233	0.93%
Sb 206.836†	6386.1	1.693 mg/L		0.0122	1.693 mg/L	0.0122	0.72%
Se 196.026†	6221.4	2.372 mg/L		0.0230	2.372 mg/L	0.0230	0.97%
Sn 189.927†	9705.0	1.448 mg/L		0.0106	1.448 mg/L	0.0106	0.73%
Ti 337.279†	78057.4	4.404 mg/L		0.0119	4.404 mg/L	0.0119	0.27%
Tl 351.924†	4065.1	1.023 mg/L		0.0095	1.023 mg/L	0.0095	0.93%
V 290.880†	175816.9	2.244 mg/L		0.0026	2.244 mg/L	0.0026	0.12%
Zn 206.200†	126180.3	3.109 mg/L		0.0069	3.109 mg/L	0.0069	0.22%
Zr 343.823†	23428.1	0.0799 mg/L		0.00075	0.0799 mg/L	0.00075	0.93%

Sequence No.: 94

Sample ID: B336857-BS3

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 97

Date Collected: 4/11/2023 10:19:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BS3

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	141051.8	94.1 %		2.12			2.25%
Y axial	3006812.6	95.4 %		0.40			0.42%
Ag 328.068†	61074.5	0.7167 mg/L		0.00456	0.7167 mg/L	0.00456	0.64%
Al 396.153†	390280.9	90.95 mg/L		2.396	90.95 mg/L	2.396	2.63%
As 188.979†	3400.4	1.822 mg/L		0.0333	1.822 mg/L	0.0333	1.83%
B 208.889†	12166.5	0.9041 mg/L		0.00686	0.9041 mg/L	0.00686	0.76%
Ba 233.527†	314243.1	3.077 mg/L		0.0049	3.077 mg/L	0.0049	0.16%
Be 313.107†	135546.9	0.8102 mg/L		0.00083	0.8102 mg/L	0.00083	0.10%
Ca 317.933†	237510.6	49.35 mg/L		1.402	49.35 mg/L	1.402	2.84%
Cd 228.802†	95519.1	2.053 mg/L		0.0048	2.053 mg/L	0.0048	0.23%
Co 228.616†	45638.3	0.9575 mg/L		0.00866	0.9575 mg/L	0.00866	0.90%
Cr 267.716†	151027.3	2.033 mg/L		0.0053	2.033 mg/L	0.0053	0.26%

Cu 327.393†	228133.7	1.453 mg/L	0.0053	1.453 mg/L	0.0053	0.36%
Fe 238.204†	13677.4	131.4 mg/L	0.16	131.4 mg/L	0.16	0.12%
K 766.490†	36608.1	23.60 mg/L	0.117	23.60 mg/L	0.117	0.50%
Mg 285.213†	247299.0	26.27 mg/L	0.714	26.27 mg/L	0.714	2.72%
Mn 257.610†	24048.1	4.074 mg/L	0.0074	4.074 mg/L	0.0074	0.18%
Mo 202.031†	44323.1	1.936 mg/L	0.0145	1.936 mg/L	0.0145	0.75%
Na 589.592†	45334.3	7.159 mg/L	0.0189	7.159 mg/L	0.0189	0.26%
Ni 231.604†	76527.6	1.643 mg/L	0.0137	1.643 mg/L	0.0137	0.83%
Pb 220.353†	17857.7	2.537 mg/L	0.0126	2.537 mg/L	0.0126	0.50%
Sb 206.836†	6603.0	1.752 mg/L	0.0154	1.752 mg/L	0.0154	0.88%
Se 196.026†	6640.6	2.532 mg/L	0.0341	2.532 mg/L	0.0341	1.35%
Sn 189.927†	9868.1	1.472 mg/L	0.0106	1.472 mg/L	0.0106	0.72%
Ti 337.279†	79391.3	4.480 mg/L	0.0182	4.480 mg/L	0.0182	0.41%
Tl 351.924†	4143.7	1.041 mg/L	0.0231	1.041 mg/L	0.0231	2.22%
V 290.880†	177775.5	2.270 mg/L	0.0030	2.270 mg/L	0.0030	0.13%
Zn 206.200†	138115.9	3.403 mg/L	0.0038	3.403 mg/L	0.0038	0.11%
Zr 343.823†	23712.4	0.0809 mg/L	0.00056	0.0809 mg/L	0.00056	0.69%

Sequence No.: 95

Sample ID: B336857-BS4

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 98

Date Collected: 4/11/2023 10:24:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BS4

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140105.7	93.5 %	%	2.19			2.35%
Y axial	3019309.2	95.7 %	%	1.84			1.92%
Ag 328.068†	59483.2	0.6980 mg/L	mg/L	0.00949	0.6980 mg/L	0.00949	1.36%
Al 396.153†	379740.3	88.50 mg/L	mg/L	2.204	88.50 mg/L	2.204	2.49%
As 188.979†	3220.3	1.727 mg/L	mg/L	0.0640	1.727 mg/L	0.0640	3.71%
B 208.889†	11675.3	0.8671 mg/L	mg/L	0.03492	0.8671 mg/L	0.03492	4.03%
Ba 233.527†	297329.5	2.911 mg/L	mg/L	0.0045	2.911 mg/L	0.0045	0.15%
Be 313.107†	129649.8	0.7749 mg/L	mg/L	0.00053	0.7749 mg/L	0.00053	0.07%
Ca 317.933†	226449.5	47.05 mg/L	mg/L	1.285	47.05 mg/L	1.285	2.73%
Cd 228.802†	93654.2	2.013 mg/L	mg/L	0.0080	2.013 mg/L	0.0080	0.40%
Co 228.616†	44005.3	0.9233 mg/L	mg/L	0.03421	0.9233 mg/L	0.03421	3.71%
Cr 267.716†	146155.6	1.967 mg/L	mg/L	0.0039	1.967 mg/L	0.0039	0.20%
Cu 327.393†	220300.3	1.404 mg/L	mg/L	0.0028	1.404 mg/L	0.0028	0.20%
Fe 238.204†	13720.8	131.8 mg/L	mg/L	0.60	131.8 mg/L	0.60	0.45%
K 766.490†	35257.3	22.73 mg/L	mg/L	0.055	22.73 mg/L	0.055	0.24%
Mg 285.213†	238445.5	25.33 mg/L	mg/L	0.670	25.33 mg/L	0.670	2.64%
Mn 257.610†	23205.9	3.931 mg/L	mg/L	0.0126	3.931 mg/L	0.0126	0.32%
Mo 202.031†	42745.6	1.867 mg/L	mg/L	0.0672	1.867 mg/L	0.0672	3.60%
Na 589.592†	40687.6	6.425 mg/L	mg/L	0.0310	6.425 mg/L	0.0310	0.48%
Ni 231.604†	73799.4	1.585 mg/L	mg/L	0.0549	1.585 mg/L	0.0549	3.46%
Pb 220.353†	17225.9	2.447 mg/L	mg/L	0.0835	2.447 mg/L	0.0835	3.41%
Sb 206.836†	6245.7	1.655 mg/L	mg/L	0.0650	1.655 mg/L	0.0650	3.93%
Se 196.026†	6144.5	2.342 mg/L	mg/L	0.0908	2.342 mg/L	0.0908	3.87%
Sn 189.927†	9533.9	1.422 mg/L	mg/L	0.0473	1.422 mg/L	0.0473	3.33%
Ti 337.279†	76403.6	4.311 mg/L	mg/L	0.0299	4.311 mg/L	0.0299	0.69%
Tl 351.924†	4001.1	1.008 mg/L	mg/L	0.0479	1.008 mg/L	0.0479	4.75%
V 290.880†	171943.9	2.195 mg/L	mg/L	0.0036	2.195 mg/L	0.0036	0.16%
Zn 206.200†	122960.4	3.030 mg/L	mg/L	0.0062	3.030 mg/L	0.0062	0.20%
Zr 343.823†	23399.7	0.0798 mg/L	mg/L	0.00416	0.0798 mg/L	0.00416	5.21%

Sequence No.: 96

Sample ID: B336857-BS5

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 99

Date Collected: 4/11/2023 10:30:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B336857-BS5

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y radial	143843.5	96.0 %	0.49			0.51%
Y axial	3029936.3	96.1 %	1.14			1.19%
Ag 328.068†	69549.4	0.8161 mg/L	0.01532	0.8161 mg/L	0.01532	1.88%
Al 396.153†	430834.2	100.4 mg/L	2.03	100.4 mg/L	2.03	2.02%
As 188.979†	3792.4	2.032 mg/L	0.0650	2.032 mg/L	0.0650	3.20%
B 208.889†	13605.9	1.012 mg/L	0.0312	1.012 mg/L	0.0312	3.09%
Ba 233.527†	340061.2	3.330 mg/L	0.0055	3.330 mg/L	0.0055	0.16%
Be 313.107†	147652.3	0.8826 mg/L	0.00023	0.8826 mg/L	0.00023	0.03%
Ca 317.933†	256803.1	53.36 mg/L	1.234	53.36 mg/L	1.234	2.31%
Cd 228.802†	105320.1	2.263 mg/L	0.0038	2.263 mg/L	0.0038	0.17%
Co 228.616†	50653.4	1.063 mg/L	0.0365	1.063 mg/L	0.0365	3.43%
Cr 267.716†	164887.1	2.219 mg/L	0.0029	2.219 mg/L	0.0029	0.13%
Cu 327.393†	254500.9	1.621 mg/L	0.0020	1.621 mg/L	0.0020	0.12%
Fe 238.204†	15226.4	146.3 mg/L	0.31	146.3 mg/L	0.31	0.21%
K 766.490†	40452.3	26.08 mg/L	0.078	26.08 mg/L	0.078	0.30%
Mg 285.213†	268332.9	28.51 mg/L	0.578	28.51 mg/L	0.578	2.03%
Mn 257.610†	25285.7	4.284 mg/L	0.0064	4.284 mg/L	0.0064	0.15%
Mo 202.031†	49374.7	2.157 mg/L	0.0763	2.157 mg/L	0.0763	3.54%
Na 589.592†	46247.6	7.303 mg/L	0.0167	7.303 mg/L	0.0167	0.23%
Ni 231.604†	84028.8	1.804 mg/L	0.0038	1.804 mg/L	0.0038	0.21%
Pb 220.353†	20100.7	2.855 mg/L	0.0940	2.855 mg/L	0.0940	3.29%
Sb 206.836†	7235.1	1.920 mg/L	0.0716	1.920 mg/L	0.0716	3.73%
Se 196.026†	7199.6	2.745 mg/L	0.0884	2.745 mg/L	0.0884	3.22%
Sn 189.927†	11015.0	1.642 mg/L	0.0540	1.642 mg/L	0.0540	3.29%
Ti 337.279†	85288.7	4.812 mg/L	0.0175	4.812 mg/L	0.0175	0.36%
Tl 351.924†	4669.0	1.173 mg/L	0.0508	1.173 mg/L	0.0508	4.33%
V 290.880†	194422.8	2.483 mg/L	0.0038	2.483 mg/L	0.0038	0.15%
Zn 206.200†	139896.2	3.447 mg/L	0.0062	3.447 mg/L	0.0062	0.18%
Zr 343.823†	26271.3	0.0896 mg/L	0.00400	0.0896 mg/L	0.00400	4.46%

Sequence No.: 97

Sample ID: SEO-IFA @2211113

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 11

Date Collected: 4/11/2023 10:36:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEO-IFA @2211113

Analyte		Mean	Corrected	Calib.	Std.Dev.	Conc.	Units	Std.Dev.	RSD
		Intensity		Conc.		Units			
Y radial		134451.8		89.7 %	0.43				0.48%
Y axial		2804414.2		88.9 %	1.94				2.18%
Ag	328.068†	-280.3	-0.0033 mg/L	0.00054	-0.0033 mg/L			0.00054	16.36%
	QC value	within limits	for Ag	328.068	Recovery =	Not calculated			
Al	396.153†	1043680.2	243.4 mg/L	0.85	243.4 mg/L			0.85	0.35%
	QC value	within limits	for Al	396.153	Recovery =	97.35%			
As	188.979†	-51.4	-0.0059 mg/L	0.00141	-0.0059 mg/L			0.00141	23.72%
	QC value	within limits	for As	188.979	Recovery =	Not calculated			
B	208.889†	99.6	0.0090 mg/L	0.00142	0.0090 mg/L			0.00142	15.81%
	QC value	within limits	for B	208.889	Recovery =	Not calculated			
Ba	233.527†	358.6	0.0036 mg/L	0.00005	0.0036 mg/L			0.00005	1.35%
	QC value	within limits	for Ba	233.527	Recovery =	Not calculated			
Be	313.107†	105.7	0.0004 mg/L	0.00013	0.0004 mg/L			0.00013	33.03%
	QC value	within limits	for Be	313.107	Recovery =	Not calculated			
Ca	317.933†	1077979.7	224.0 mg/L	0.80	224.0 mg/L			0.80	0.36%
	QC value	within limits	for Ca	317.933	Recovery =	89.59%			
Cd	228.802†	11.8	0.0004 mg/L	0.00024	0.0004 mg/L			0.00024	57.48%
	QC value	within limits	for Cd	228.802	Recovery =	Not calculated			
Co	228.616†	22.2	0.0004 mg/L	0.00029	0.0004 mg/L			0.00029	64.42%
	QC value	within limits	for Co	228.616	Recovery =	Not calculated			
Cr	267.716†	-161.7	-0.0004 mg/L	0.00016	-0.0004 mg/L			0.00016	36.95%
	QC value	within limits	for Cr	267.716	Recovery =	Not calculated			
Cu	327.393†	-445.2	-0.0007 mg/L	0.00033	-0.0007 mg/L			0.00033	50.23%
	QC value	within limits	for Cu	327.393	Recovery =	Not calculated			
Fe	238.204†	9275.7	88.97 mg/L	0.490	88.97 mg/L			0.490	0.55%
	QC value	within limits	for Fe	238.204	Recovery =	88.97%			

K 766.490†	38.3	0.0247 mg/L	0.03212	0.0247 mg/L	0.03212	130.04%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	1922165.9	203.9 mg/L	0.89	203.9 mg/L	0.89	0.44%
QC value within limits for Mg 285.213 Recovery = 81.57%						
Mn 257.610†	38.3	0.0065 mg/L	0.00085	0.0065 mg/L	0.00085	13.09%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-316.2	-0.0138 mg/L	0.00057	-0.0138 mg/L	0.00057	4.15%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	468.8	0.0740 mg/L	0.01216	0.0740 mg/L	0.01216	16.43%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-25.1	-0.0005 mg/L	0.00019	-0.0005 mg/L	0.00019	40.51%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-151.8	0.0004 mg/L	0.00251	0.0004 mg/L	0.00251	609.22%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	157.1	0.0037 mg/L	0.00385	0.0037 mg/L	0.00385	102.59%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	48.5	0.0184 mg/L	0.00263	0.0184 mg/L	0.00263	14.24%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-105.9	-0.0155 mg/L	0.00280	-0.0155 mg/L	0.00280	18.02%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	22.9	0.0013 mg/L	0.00112	0.0013 mg/L	0.00112	87.06%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-463.2	-0.0458 mg/L	0.00466	-0.0458 mg/L	0.00466	10.18%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	6158.2	0.0014 mg/L	0.00220	0.0014 mg/L	0.00220	157.31%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-158.5	-0.0066 mg/L	0.00028	-0.0066 mg/L	0.00028	4.23%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	786.1	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	14.66%
All analyte(s) passed QC.						

Sequence No.: 98

Sample ID: SEQ-IFB @2211114

Analyst:

Initial Sample Wt: Mg failed; 04/12/23 ATP

Dilution:

Wash Time (before sample): 110

Autosampler Location: 12

Date Collected: 4/11/2023 10:42:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-IFB @2211114

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	140519.0	93.7 %	1.83			1.96%
Y axial	2808720.0	89.1 %	0.39			0.44%
Ag 328.068†	32375.2	0.3800 mg/L	0.00430	0.3800 mg/L	0.00430	1.13%
QC value within limits for Ag 328.068 Recovery = 95.00%						
Al 396.153†	1005211.7	234.4 mg/L	5.43	234.4 mg/L	5.43	2.31%
QC value within limits for Al 396.153 Recovery = 93.76%						
As 188.979†	272.6	0.1722 mg/L	0.00091	0.1722 mg/L	0.00091	0.53%
QC value within limits for As 188.979 Recovery = 86.11%						
B 208.889†	89.3	0.0082 mg/L	0.00140	0.0082 mg/L	0.00140	17.19%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	95026.2	0.9308 mg/L	0.00082	0.9308 mg/L	0.00082	0.09%
QC value within limits for Ba 233.527 Recovery = 93.08%						
Be 313.107†	148529.4	0.8919 mg/L	0.01965	0.8919 mg/L	0.01965	2.20%
QC value within limits for Be 313.107 Recovery = 89.19%						
Ca 317.933†	1046043.7	217.3 mg/L	4.83	217.3 mg/L	4.83	2.22%
QC value within limits for Ca 317.933 Recovery = 86.93%						
Cd 228.802†	88084.5	1.902 mg/L	0.0034	1.902 mg/L	0.0034	0.18%
QC value within limits for Cd 228.802 Recovery = 95.09%						
Co 228.616†	39615.2	0.8360 mg/L	0.00467	0.8360 mg/L	0.00467	0.56%
QC value within limits for Co 228.616 Recovery = 83.60%						
Cr 267.716†	66816.7	0.9002 mg/L	0.00167	0.9002 mg/L	0.00167	0.19%
QC value within limits for Cr 267.716 Recovery = 90.02%						
Cu 327.393†	147493.4	0.9362 mg/L	0.00165	0.9362 mg/L	0.00165	0.18%
QC value within limits for Cu 327.393 Recovery = 93.62%						
Fe 238.204†	8808.1	84.49 mg/L	1.792	84.49 mg/L	1.792	2.12%
QC value within limits for Fe 238.204 Recovery = 84.49%						
K 766.490†	71.8	0.0463 mg/L	0.00841	0.0463 mg/L	0.00841	18.17%

	QC value	within limits for K	766.490	Recovery = Not calculated			
Mg	285.213†		1851943.9	196.5 mg/L	4.29	196.5 mg/L	4.29
	QC value	less than the lower limit for Mg	285.213	Recovery = 78.59%			
Mn	257.610†		5181.9	0.8779 mg/L	0.01912	0.8779 mg/L	0.01912
	QC value	within limits for Mn	257.610	Recovery = 87.79%			
Mo	202.031†		-343.8	-0.0150 mg/L	0.00036	-0.0150 mg/L	0.00036
	QC value	within limits for Mo	202.031	Recovery = Not calculated			
Na	589.592†		418.2	0.0660 mg/L	0.00257	0.0660 mg/L	0.00257
	QC value	within limits for Na	589.592	Recovery = Not calculated			
Ni	231.604†		78213.8	1.680 mg/L	0.0007	1.680 mg/L	0.0007
	QC value	within limits for Ni	231.604	Recovery = 84.00%			
Pb	220.353†		475.7	0.0880 mg/L	0.00378	0.0880 mg/L	0.00378
	QC value	within limits for Pb	220.353	Recovery = 88.01%			
Sb	206.836†		3811.9	0.9980 mg/L	0.00914	0.9980 mg/L	0.00914
	QC value	within limits for Sb	206.836	Recovery = 83.17%			
Se	196.026†		280.6	0.1061 mg/L	0.00223	0.1061 mg/L	0.00223
	QC value	within limits for Se	196.026	Recovery = 106.09%			
Sn	189.927†		-101.6	-0.0149 mg/L	0.00381	-0.0149 mg/L	0.00381
	QC value	within limits for Sn	189.927	Recovery = Not calculated			
Ti	337.279†		9.3	0.0005 mg/L	0.00075	0.0005 mg/L	0.00075
	QC value	within limits for Ti	337.279	Recovery = Not calculated			
Tl	351.924†		591.9	0.1958 mg/L	0.00259	0.1958 mg/L	0.00259
	QC value	within limits for Tl	351.924	Recovery = 97.92%			
V	290.880†		81508.8	0.9551 mg/L	0.00308	0.9551 mg/L	0.00308
	QC value	within limits for V	290.880	Recovery = 95.51%			
Zn	206.200†		71121.5	1.754 mg/L	0.0068	1.754 mg/L	0.0068
	QC value	within limits for Zn	206.200	Recovery = 87.70%			
Zr	343.823†		786.4	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007
	QC Failed.	Continue with analysis.					

Sequence No.: 99
Sample ID: SEO-CCV

Analyst:

Initial

Dilution: -

Wash Time

Autosampler Location: 5

Date Collected: 4/11/2023 10:50:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Mean Corrected		Calib.	Sample			
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	140867.2	94.0 %	0.98			1.04%
Y axial	3044096.1	96.5 %	0.90			0.93%
Ag 328.068†	187567.1	2.184 mg/L	0.0231	2.184 mg/L	0.0231	1.06%
QC value	less than the lower limit for Ag 328.068		Recovery = 87.37%			
Al 396.153†	41268.5	9.439 mg/L	0.0183	9.439 mg/L	0.0183	0.19%
QC value	within limits for Al 396.153		Recovery = 94.39%			
As 188.979†	8749.5	4.626 mg/L	0.0281	4.626 mg/L	0.0281	0.61%
QC value	within limits for As 188.979		Recovery = 92.52%			
B 208.889†	55727.9	4.358 mg/L	0.0215	4.358 mg/L	0.0215	0.49%
QC value	less than the lower limit for B 208.889		Recovery = 87.16%			
Ba 233.527†	490982.7	4.809 mg/L	0.0156	4.809 mg/L	0.0156	0.32%
QC value	within limits for Ba 233.527		Recovery = 96.18%			
Be 313.107†	764776.0	4.598 mg/L	0.0018	4.598 mg/L	0.0018	0.04%
QC value	within limits for Be 313.107		Recovery = 91.96%			
Ca 317.933†	44729.6	9.293 mg/L	0.0140	9.293 mg/L	0.0140	0.15%
QC value	within limits for Ca 317.933		Recovery = 92.93%			
Cd 228.802†	221160.0	4.761 mg/L	0.0126	4.761 mg/L	0.0126	0.26%
QC value	within limits for Cd 228.802		Recovery = 95.23%			
Co 228.616†	222558.7	4.700 mg/L	0.0140	4.700 mg/L	0.0140	0.30%
QC value	within limits for Co 228.616		Recovery = 94.01%			
Cr 267.716†	354150.4	4.762 mg/L	0.0188	4.762 mg/L	0.0188	0.39%
QC value	within limits for Cr 267.716		Recovery = 95.25%			
Cu 327.393†	739744.8	4.701 mg/L	0.0145	4.701 mg/L	0.0145	0.31%
QC value	within limits for Cu 327.393		Recovery = 94.01%			
Fe 238.204†	460.9	4.449 mg/L	0.0720	4.449 mg/L	0.0720	1.62%
QC value	less than the lower limit for Fe 238.204		Recovery = 88.97%			
K 766.490†	15200.7	9.798 mg/L	0.0474	9.798 mg/L	0.0474	0.48%
QC value	within limits for K 766.490		Recovery = 97.98%			

Mg	285.213†	91240.4	9.577 mg/L	0.0120	9.577 mg/L	0.0120	0.13%
	QC value within limits for Mg	285.213	Recovery =	95.77%			
Mn	257.610†	27796.9	4.709 mg/L	0.0116	4.709 mg/L	0.0116	0.25%
	QC value within limits for Mn	257.610	Recovery =	94.18%			
Mo	202.031†	108353.2	4.733 mg/L	0.0217	4.733 mg/L	0.0217	0.46%
	QC value within limits for Mo	202.031	Recovery =	94.66%			
Na	589.592†	62834.4	9.922 mg/L	0.0060	9.922 mg/L	0.0060	0.06%
	QC value within limits for Na	589.592	Recovery =	99.22%			
Ni	231.604†	220575.5	4.736 mg/L	0.0218	4.736 mg/L	0.0218	0.46%
	QC value within limits for Ni	231.604	Recovery =	94.72%			
Pb	220.353†	33223.6	4.718 mg/L	0.0362	4.718 mg/L	0.0362	0.77%
	QC value within limits for Pb	220.353	Recovery =	94.36%			
Sb	206.836†	16964.4	4.574 mg/L	0.0144	4.574 mg/L	0.0144	0.31%
	QC value within limits for Sb	206.836	Recovery =	91.49%			
Se	196.026†	12036.2	4.587 mg/L	0.0364	4.587 mg/L	0.0364	0.79%
	QC value within limits for Se	196.026	Recovery =	91.73%			
Sn	189.927†	32229.4	4.755 mg/L	0.0180	4.755 mg/L	0.0180	0.38%
	QC value within limits for Sn	189.927	Recovery =	95.11%			
Ti	337.279†	83043.9	4.683 mg/L	0.0054	4.683 mg/L	0.0054	0.12%
	QC value within limits for Ti	337.279	Recovery =	93.66%			
Tl	351.924†	12872.4	2.994 mg/L	0.0293	2.994 mg/L	0.0293	0.98%
	QC value greater than the upper limit for Tl	351.924	Recovery =	119.76%			
V	290.880†	391193.8	5.057 mg/L	0.0215	5.057 mg/L	0.0215	0.43%
	QC value within limits for V	290.880	Recovery =	101.13%			
Zn	206.200†	198992.7	4.923 mg/L	0.0240	4.923 mg/L	0.0240	0.49%
	QC value within limits for Zn	206.200	Recovery =	98.47%			
Zr	343.823†	1337932.1	4.770 mg/L	0.0194	4.770 mg/L	0.0194	0.41%
	QC Failed. Retry.						

Sequence No.: 100

Sample ID: SEQ-CCV

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 5

Date Collected: 4/11/2023 10:53:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	139084.3	92.8 %	1.48			1.59%
Y axial	3025967.5	96.0 %	0.37			0.39%
Ag 328.068†	190039.2	2.213 mg/L	0.0291	2.213 mg/L	0.0291	1.31%
	QC value less than the lower limit for Ag	328.068	Recovery =	88.53%		
Al 396.153†	41384.6	9.465 mg/L	0.0572	9.465 mg/L	0.0572	0.60%
	QC value within limits for Al	396.153	Recovery =	94.65%		
As 188.979†	8759.6	4.632 mg/L	0.0673	4.632 mg/L	0.0673	1.45%
	QC value within limits for As	188.979	Recovery =	92.63%		
B 208.889†	55924.1	4.373 mg/L	0.0388	4.373 mg/L	0.0388	0.89%
	QC value less than the lower limit for B	208.889	Recovery =	87.46%		
Ba 233.527†	492588.9	4.825 mg/L	0.0043	4.825 mg/L	0.0043	0.09%
	QC value within limits for Ba	233.527	Recovery =	96.50%		
Be 313.107†	768881.1	4.622 mg/L	0.0053	4.622 mg/L	0.0053	0.12%
	QC value within limits for Be	313.107	Recovery =	92.45%		
Ca 317.933†	44872.1	9.323 mg/L	0.0099	9.323 mg/L	0.0099	0.11%
	QC value within limits for Ca	317.933	Recovery =	93.23%		
Cd 228.802†	221966.6	4.779 mg/L	0.0015	4.779 mg/L	0.0015	0.03%
	QC value within limits for Cd	228.802	Recovery =	95.58%		
Co 228.616†	223377.5	4.718 mg/L	0.0046	4.718 mg/L	0.0046	0.10%
	QC value within limits for Co	228.616	Recovery =	94.35%		
Cr 267.716†	355511.2	4.781 mg/L	0.0043	4.781 mg/L	0.0043	0.09%
	QC value within limits for Cr	267.716	Recovery =	95.61%		
Cu 327.393†	744766.3	4.732 mg/L	0.0045	4.732 mg/L	0.0045	0.10%
	QC value within limits for Cu	327.393	Recovery =	94.65%		
Fe 238.204†	470.6	4.542 mg/L	0.0754	4.542 mg/L	0.0754	1.66%
	QC value within limits for Fe	238.204	Recovery =	90.83%		
K 766.490†	15319.1	9.875 mg/L	0.0633	9.875 mg/L	0.0633	0.64%
	QC value within limits for K	766.490	Recovery =	98.75%		
Mg 285.213†	91416.7	9.595 mg/L	0.0390	9.595 mg/L	0.0390	0.41%

QC value within limits for Mg 285.213	Recovery = 95.95%				
Mn 257.610†	27869.2	4.721 mg/L	0.0034	4.721 mg/L	0.0034 0.07%
QC value within limits for Mn 257.610	Recovery = 94.43%				
Mo 202.031†	108832.0	4.754 mg/L	0.0047	4.754 mg/L	0.0047 0.10%
QC value within limits for Mo 202.031	Recovery = 95.07%				
Na 589.592†	63287.7	9.994 mg/L	0.0283	9.994 mg/L	0.0283 0.28%
QC value within limits for Na 589.592	Recovery = 99.94%				
Ni 231.604†	221548.3	4.757 mg/L	0.0039	4.757 mg/L	0.0039 0.08%
QC value within limits for Ni 231.604	Recovery = 95.14%				
Pb 220.353†	33303.7	4.730 mg/L	0.0559	4.730 mg/L	0.0559 1.18%
QC value within limits for Pb 220.353	Recovery = 94.59%				
Sb 206.836†	16929.5	4.564 mg/L	0.0428	4.564 mg/L	0.0428 0.94%
QC value within limits for Sb 206.836	Recovery = 91.29%				
Se 196.026†	11916.2	4.541 mg/L	0.0489	4.541 mg/L	0.0489 1.08%
QC value within limits for Se 196.026	Recovery = 90.82%				
Sn 189.927†	32222.3	4.754 mg/L	0.0619	4.754 mg/L	0.0619 1.30%
QC value within limits for Sn 189.927	Recovery = 95.09%				
Ti 337.279†	83347.3	4.700 mg/L	0.0157	4.700 mg/L	0.0157 0.33%
QC value within limits for Ti 337.279	Recovery = 94.01%				
Tl 351.924†	12891.6	2.999 mg/L	0.0273	2.999 mg/L	0.0273 0.91%
QC value greater than the upper limit for Tl 351.924	Recovery = 119.94%				
V 290.880†	392201.2	5.070 mg/L	0.0076	5.070 mg/L	0.0076 0.15%
QC value within limits for V 290.880	Recovery = 101.40%				
Zn 206.200†	199385.9	4.933 mg/L	0.0043	4.933 mg/L	0.0043 0.09%
QC value within limits for Zn 206.200	Recovery = 98.66%				
Zr 343.823†	1343935.3	4.791 mg/L	0.0048	4.791 mg/L	0.0048 0.10%
QC Failed. Continue with analysis.					

Sequence No.: 101

Sample ID: SEQ-CCB

Analyst:

Initial Sample Wt:

Dilution:

Wash Time (before sample): 220

Autosampler Location: 1

Date Collected: 4/11/2023 10:59:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: SEQ-CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y radial	138459.3	92.4 %	0.94			1.02%
Y axial	3054048.6	96.8 %	1.13			1.17%
Ag 328.068†	818.8	0.0096 mg/L	0.00080	0.0096 mg/L	0.00080	8.34%
QC value within limits for Ag 328.068	Recovery = Not calculated					
Al 396.153†	-7.0	-0.0017 mg/L	0.00826	-0.0017 mg/L	0.00826	491.43%
QC value within limits for Al 396.153	Recovery = Not calculated					
As 188.979†	-1.6	-0.0008 mg/L	0.00184	-0.0008 mg/L	0.00184	219.07%
QC value within limits for As 188.979	Recovery = Not calculated					
B 208.889†	328.7	0.0271 mg/L	0.00031	0.0271 mg/L	0.00031	1.16%
QC value within limits for B 208.889	Recovery = Not calculated					
Ba 233.527†	12.4	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	63.15%
QC value within limits for Ba 233.527	Recovery = Not calculated					
Be 313.107†	112.8	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	17.09%
QC value within limits for Be 313.107	Recovery = Not calculated					
Ca 317.933†	-1.8	-0.0004 mg/L	0.00082	-0.0004 mg/L	0.00082	218.31%
QC value within limits for Ca 317.933	Recovery = Not calculated					
Cd 228.802†	22.1	0.0005 mg/L	0.00018	0.0005 mg/L	0.00018	37.19%
QC value within limits for Cd 228.802	Recovery = Not calculated					
Co 228.616†	3.0	0.0001 mg/L	0.00018	0.0001 mg/L	0.00018	278.49%
QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	45.4	0.0006 mg/L	0.00007	0.0006 mg/L	0.00007	12.21%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 327.393†	260.9	0.0017 mg/L	0.00029	0.0017 mg/L	0.00029	17.29%
QC value within limits for Cu 327.393	Recovery = Not calculated					
Fe 238.204†	1.9	0.0182 mg/L	0.00260	0.0182 mg/L	0.00260	14.30%
QC value within limits for Fe 238.204	Recovery = Not calculated					
K 766.490†	-32.2	-0.0208 mg/L	0.01948	-0.0208 mg/L	0.01948	93.86%
QC value within limits for K 766.490	Recovery = Not calculated					
Mg 285.213†	37.6	0.0040 mg/L	0.00022	0.0040 mg/L	0.00022	5.51%
QC value within limits for Mg 285.213	Recovery = Not calculated					

Mn 257.610†	-3.4	-0.0006 mg/L	0.00057	-0.0006 mg/L	0.00057	97.44%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	34.0	0.0015 mg/L	0.00009	0.0015 mg/L	0.00009	5.75%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	92.9	0.0147 mg/L	0.00152	0.0147 mg/L	0.00152	10.38%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-1.3	-0.0000 mg/L	0.00022	-0.0000 mg/L	0.00022	745.51%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	37.4	0.0053 mg/L	0.00054	0.0053 mg/L	0.00054	10.14%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	22.8	0.0063 mg/L	0.00102	0.0063 mg/L	0.00102	16.25%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.1	0.0016 mg/L	0.00221	0.0016 mg/L	0.00221	140.62%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	5.9	0.0009 mg/L	0.00115	0.0009 mg/L	0.00115	131.93%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	12.2	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	30.84%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	17.0	0.0040 mg/L	0.00657	0.0040 mg/L	0.00657	163.92%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	39.1	0.0005 mg/L	0.00013	0.0005 mg/L	0.00013	25.38%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	63.0	0.0016 mg/L	0.00007	0.0016 mg/L	0.00007	4.59%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	102.8	0.0004 mg/L	0.00024	0.0004 mg/L	0.00024	65.56%

All analyte(s) passed QC.



Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 70250978

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InOrganic

Wet Chemistry

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April 03, 2023

Kyle Stuckey
Pace-Contest
39 Spruce St.
East Longmeadow, MA

RE: Project: 23C3284
Pace Project No.: 70250978

Dear Kyle Stuckey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Matthew T. Nemeth
matthew.nemeth@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Jessica Hoffman, Con-Test
Raymond McCarthy, Pace Analytical Services - New
England

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23C3284

Pace Project No.: 70250978

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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ANALYTICAL RESULTS

Project: 23C3284

Pace Project No.: 70250978

Sample: 23C3284-01		Lab ID: 70250978001		Collected: 03/28/23 10:02		Received: 03/28/23 14:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		03/28/23 16:11	18540-29-9		

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ANALYTICAL RESULTS

Project: 23C3284

Pace Project No.: 70250978

Sample: 23C3284-02		Lab ID: 70250978002		Collected: 03/28/23 10:50		Received: 03/28/23 14:52		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	0.30	mg/L	0.020	1		03/28/23 16:12	18540-29-9	M1	

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ANALYTICAL RESULTS

Project: 23C3284

Pace Project No.: 70250978

Sample: 23C3284-03		Lab ID: 70250978003		Collected: 03/28/23 11:40		Received: 03/28/23 14:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		03/28/23 16:15	18540-29-9		

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ANALYTICAL RESULTS

Project: 23C3284

Pace Project No.: 70250978

Sample: 23C3284-04		Lab ID: 70250978004		Collected: 03/28/23 12:34		Received: 03/28/23 14:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		03/28/23 16:16	18540-29-9		

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ANALYTICAL RESULTS

Project: 23C3284

Pace Project No.: 70250978

Sample: 23C3284-05		Lab ID: 70250978005		Collected: 03/28/23 13:25		Received: 03/28/23 14:52		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	<0.020	mg/L	0.020	1		03/28/23 16:17	18540-29-9		

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ANALYTICAL RESULTS

Project: 23C3284
Pace Project No.: 70250978

Sample: 23C3284-06		Lab ID: 70250978006		Collected: 03/28/23 13:45	Received: 03/28/23 14:52	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville						
Chromium, Hexavalent	<0.020	mg/L	0.020	1		03/28/23 16:18	18540-29-9	

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ANALYTICAL RESULTS

Project: 23C3284

Pace Project No.: 70250978

Sample: 23C3284-08		Lab ID: 70250978008		Collected: 03/28/23 00:00		Received: 03/28/23 14:52		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent		Analytical Method: EPA 7196A Pace Analytical Services - Melville							
Chromium, Hexavalent	0.29	mg/L	0.020	1		03/28/23 16:10	18540-29-9		

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QUALITY CONTROL DATA

Project: 23C3284
Pace Project No.: 70250978

QC Batch:	299503	Analysis Method:	EPA 7196A
QC Batch Method:	EPA 7196A	Analysis Description:	7196 Chromium, Hexavalent
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70250978001, 70250978002, 70250978003, 70250978004, 70250978005, 70250978006, 70250978008

METHOD BLANK: 1516096 Matrix: Water
Associated Lab Samples: 70250978001, 70250978002, 70250978003, 70250978004, 70250978005, 70250978006, 70250978008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	03/28/23 16:08	

LABORATORY CONTROL SAMPLE: 1516097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.2	0.20	98	85-115	

MATRIX SPIKE SAMPLE: 1516098

Parameter	Units	70250978002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.30	0.2	0.44	69	85-115	M1

SAMPLE DUPLICATE: 1516099

Parameter	Units	70250978002 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	0.30	0.30	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 23C3284

Pace Project No.: 70250978

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 23C3284

Pace Project No.: 70250978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70250978001	23C3284-01	EPA 7196A	299503		
70250978002	23C3284-02	EPA 7196A	299503		
70250978003	23C3284-03	EPA 7196A	299503		
70250978004	23C3284-04	EPA 7196A	299503		
70250978005	23C3284-05	EPA 7196A	299503		
70250978006	23C3284-06	EPA 7196A	299503		
70250978008	23C3284-08	EPA 7196A	299503		

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WO#: 70250978

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CONTRACT CHAIN OF CUSTODY

Pace New England

23C3284

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Kyle K. Stuckey

RECEIVING LABORATORY:

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
Phone: (516) 370-6000
Fax: -

Analysis	Due	Expires	Comments
Sample ID: 23C3284-01 MW-15S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 10:02 03/29/23 10:02	CAT B
Sample ID: 23C3284-02 MW-18S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 10:50 03/29/23 10:50	CAT B MS/MSD
Sample ID: 23C3284-03 MW-3S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 11:40 03/29/23 11:40	CAT B
Sample ID: 23C3284-04 MW-17S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 12:34 03/29/23 12:34	CAT B
Sample ID: 23C3284-05 MW-19S Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 13:25 03/29/23 13:25	CAT B
Sample ID: 23C3284-06 FieldBlank_20230328 Hexavalent Chromium (CR+6) by SW846 7196A Containers Supplied:	Water 04/12/23 15:30	Sampled: 03/28/23 13:45 03/29/23 13:45	CAT B

Released By

Date

Received By

Date

Released By

Date

Received By

Date

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

23C3284

Analysis	Due	Expires	Comments
Sample ID: 23C3284-07 TripBlank_20230328	Water	Sampled: 03/28/23 00:00	CAT B
Hexavalent Chromium (CR+6) by SW846 7196A	04/12/23 15:30	03/29/23 00:00	
<i>Containers Supplied:</i>			
Sample ID: 23C3284-08 MW-X	Water	Sampled: 03/28/23 00:00	CAT B
Hexavalent Chromium (CR+6) by SW846 7196A	04/12/23 15:30	03/29/23 00:00	
<i>Containers Supplied:</i>			

WO#: 70250978

 PM MNZ Due Date: 04/07/23
 CLIENT: Pace-CON

Received By

Date

Received By

Date

Released By

Date

Received By

Date

Sample Condition Upon Receipt

WO#: 70250978

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Pace Analytical®

Client Name:

Dell - New England

PM: MN2

Due Date: 04/07/23

CLIENT: Pace--CON

Courier: ☐ Fed-Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seal Intact: ☐ Yes ☒ No ☐ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Plocc ☐ None ☐ Other

Thermometer Used: TH0: TH148 Correction Factor:

Cooler Temperature(°C): 1.4 Cooler Temperature Corrected(°C): 1.5

Temp should be above freezing to 5°C

USDA Regulated Soil (☒ N/A water sample)

Date and Initials of person examining contents: A.S. 3/28/23

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☒ Noincluding Hawaii and Puerto Rico ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (E-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Reinitiated:	☒ Yes ☐ No	3.
Sample Name & Signature on COC:	☒ Yes ☐ No ☒ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No	6.
Rush Turn Around Time Requested:	☒ Yes ☐ No ☒ N/A	7.
Sufficient Volume: (Triple volume provided for)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	
Containers Intact:	☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☒ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes ☐ No	12. 0 Hexachrome sample for
Includes date/time/ID/Main:	☒ Yes ☐ No	
All containers needing preservation have been checked?	☒ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #		
All containers needing preservation are found to be in compliance with method recommendation?	☐ Yes ☐ No ☒ N/A	Sample #
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>1 Cyanide)		
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRD/BD15 (water).		
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14. Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #		
Residual chlorine strips Lot #		Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes ☐ No ☒ N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>1mm):	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

PM (Project Manager) review

electronically in LMS

ENV-PRM-MEL-0024-01

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

23C3284-01

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284
Lab Sample ID: 70250978001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
18540-29-9	Chromium, Hexavalent	<0.020	U	mg/L	1	03/28/2023 16:11

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

23C3284-02

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284
Lab Sample ID: 70250978002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
18540-29-9	Chromium, Hexavalent	0.30		mg/L	1	03/28/2023 16:12

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

23C3284-03

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284
Lab Sample ID: 70250978003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
18540-29-9	Chromium, Hexavalent	<0.020	U	mg/L	1	03/28/2023 16:15

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

23C3284-04

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284
Lab Sample ID: 70250978004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
18540-29-9	Chromium, Hexavalent	<0.020	U	mg/L	1	03/28/2023 16:16

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

23C3284-05

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284
Lab Sample ID: 70250978005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
18540-29-9	Chromium, Hexavalent	<0.020	U	mg/L	1	03/28/2023 16:17

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

23C3284-06

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284
Lab Sample ID: 70250978006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
18540-29-9	Chromium, Hexavalent	<0.020	U	mg/L	1	03/28/2023 16:18

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

23C3284-08

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284
Lab Sample ID: 70250978008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
18540-29-9	Chromium, Hexavalent	0.29		mg/L	1	03/28/2023 16:10

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: _____

Concentration Units: mg/L Instrument ID: 70WET4

	Initial Calibration Verification				Continuing Calibration Verification			
	03/28/2023 16:05				03/28/2023 16:19			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	
Chromium, Hexavalent	0.2	0.19	97.4	95-105	0.2	0.23	113.0	90-110

FORM II INORGANIC-1
CRDL CHECK STANDARDLab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284CRDL Check Standard Source: 149021,151453,1525 Analysis Date/Time: 03/28/2023 16:07Concentration Units: mg/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Chromium, Hexavalent	0.02	0.025	126.0	70-130

FORM III INORGANIC-1
BLANKSLab Name: Pace Analytical - New York SDG No. : 70250978 Contract : 23C3284Method Blank Matrix: Water Instrument ID: 70WET4Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	03/28/2023 16:06	C	03/28/2023 16:20	C		C		C	1516096	C
Chromium, Hexavalent	0.0030	U	0.020	U					<0.020	U

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

1516098MS

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284Matrix: Water Basis: Wet Parent Sample ID: 23C3284-02

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Chromium, Hexavalent	mg/L	85-115	0.44	0.30	0.20	69*

* Spike Recovery outside QC Limits

FORM VI INORGANIC-1
DUPLICATES

1516099DUP

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284Matrix: Water Concentration Units: mg/LPercent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Chromium, Hexavalent	20	0.30	0.30	1

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

1516097LCS

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Chromium, Hexavalent	mg/L	0.20	0.20	98	85	115

FORM XII INORGANIC-1
PREPARATION LOGLab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284Preparation Method: EPA 7196A Batch: WET 69052

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
1516096	1516096BLANK	03/28/2023	50	50
1516097	1516097LCS	03/28/2023	50	50
1516098	1516098MS	03/28/2023	50	50
1516099	1516099DUP	03/28/2023	50	50
70250978001	23C3284-01	03/28/2023	50	50
70250978002	23C3284-02	03/28/2023	50	50
70250978003	23C3284-03	03/28/2023	50	50
70250978004	23C3284-04	03/28/2023	50	50
70250978005	23C3284-05	03/28/2023	50	50
70250978006	23C3284-06	03/28/2023	50	50
70250978008	23C3284-08	03/28/2023	50	50

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - New York SDG No. : 70250978 Contract: 23C3284

Instrument ID: 70WET4 Analysis Method: EPA 7196A

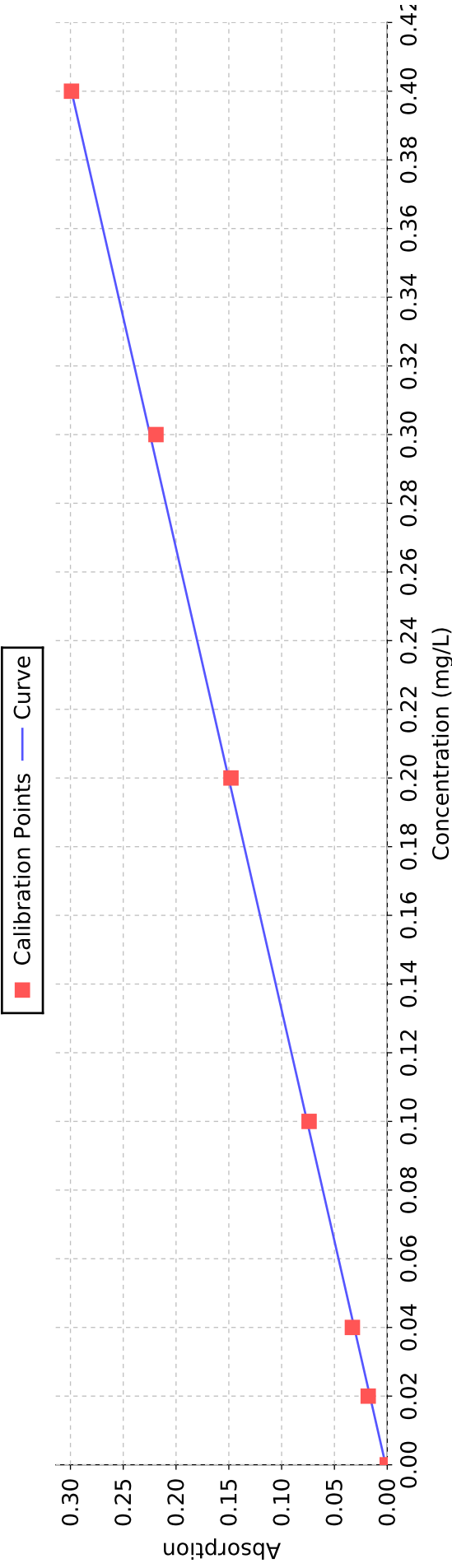
Start Date: 03/28/2023 15:58 End Date: 03/28/2023 16:20

Sample Name	Lab Sample ID	D/F	Date	Time	Cr6
18201656CAL0	18201656CAL0	1	03/28/2023	15:58	X
18201660CAL1	18201660CAL1	1	03/28/2023	15:59	X
18201661CAL2	18201661CAL2	1	03/28/2023	16:00	X
18201662CAL3	18201662CAL3	1	03/28/2023	16:01	X
18201663CAL4	18201663CAL4	1	03/28/2023	16:02	X
18201664CAL5	18201664CAL5	1	03/28/2023	16:03	X
18201665CAL6	18201665CAL6	1	03/28/2023	16:04	X
18221490ICV	18221490ICV	1	03/28/2023	16:05	X
18221491ICB	18221491ICB	1	03/28/2023	16:06	X
18221492CRDL	18221492CRDL	1	03/28/2023	16:07	X
1516096BLANK	1516096	1	03/28/2023	16:08	X
1516097LCS	1516097	1	03/28/2023	16:09	X
23C3284-08	70250978008	1	03/28/2023	16:10	X
23C3284-01	70250978001	1	03/28/2023	16:11	X
23C3284-02	70250978002	1	03/28/2023	16:12	X
1516098MS	1516098	1	03/28/2023	16:13	X
1516099DUP	1516099	1	03/28/2023	16:14	X
23C3284-03	70250978003	1	03/28/2023	16:15	X
23C3284-04	70250978004	1	03/28/2023	16:16	X
23C3284-05	70250978005	1	03/28/2023	16:17	X
23C3284-06	70250978006	1	03/28/2023	16:18	X
18221494CCV	18221494CCV	1	03/28/2023	16:19	X
18221495CCB	18221495CCB	1	03/28/2023	16:20	X



Curve Group Name: WET CR6 UNBACTHED 3/28/23
Curve Group Number: 92818
Curve Creation Date: 03/28/2023 16:12
Instrument ID: 70WET4
Analyst: SM2

SAMPLE TYPE	SCHEDULE SEQ	RUN DATE	STANDARD SOURCE	SPIKE VOL.	SPIKE VOL.		ABSORBANCE	CONC.	TV	UNITS	%REL. ERROR
					UNITS	ml					
CAL0	18201656	03/28/2023 15:58:33	153649	1		ml	0	-0.0020	0	mg/L	
CAL1	18201660	03/28/2023 15:59:35	153650	1		ml	0.018	0.022	0.02	mg/L	10.0
CAL2	18201661	03/28/2023 16:00:36	153651	1		ml	0.033	0.043	0.04	mg/L	7.5
CAL3	18201662	03/28/2023 16:01:38	153652	1		ml	0.074	0.098	0.1	mg/L	-2.0
CAL4	18201663	03/28/2023 16:02:39	153653	1		ml	0.148	0.20	0.2	mg/L	0.0
CAL5	18201664	03/28/2023 16:03:41	153654	1		ml	0.219	0.30	0.3	mg/L	0.0
CAL6	18201665	03/28/2023 16:04:43	153655	1		ml	0.299	0.40	0.4	mg/L	0.0
ICB	18221491	03/28/2023 16:06:26	126731	1		ml	0	-0.0020		mg/L	
LCS	18221286	03/28/2023 16:09:32	150899	.2		ml	0.146	0.20		mg/L	
MS	18221287	03/28/2023 16:13:22	150899	.2		ml	0.325	0.44		mg/L	
CCB	18221495	03/28/2023 16:20:25	126731	1		ml	0	-0.0020		mg/L	





Prep Log Report

Batch Information: WET CR6 UNBACTHED 3/28/23

Template Version: F-LI-I-021-Rev.02 (01Aug2021)

Curve-r	0.9997927791831417
Curve Date	03/28/2023 16:12
0.2N Sulfuric Acid	152528
Pipette ID 2	WCP007
Batch Notes	

Curve-m	0.736470113085622
Analysis Method	EPA 7196A
diphenylcarbazide soln. (mL)	149021 (1)
Pipette ID 3	N/A

Curve-y	0.0014773828756057897
Analyzed By	SM2
o-Phosphoric Acid	151453
Reviewed By	SDO
Reviewed By Date	04/03/2023 09:39
Curve-seq	3404
Instrument	70WET4
Pipette ID 1	WCP058
Reviewed By Date	04/03/2023 09:39

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Run Date/Time	Initial pH	Final pH	pH Acceptance Range	Initial Amount (g mL wipe)	Final Volume (mL)	Initial Abs	Final Abs	Absorbance	Cr6 Conc.
WET CR6_Q	CAL0	CAL0	N	Water	03/28/2023 15:58:33			2 +/- 0.5	1	1			0	-0.0020
WET CR6_Q	CAL1	CAL1	N	Water	03/28/2023 15:59:35			2 +/- 0.5	1	1			0.018	0.0224
WET CR6_Q	CAL2	CAL2	N	Water	03/28/2023 16:00:36			2 +/- 0.5	1	1			0.033	0.0428
WET CR6_Q	CAL3	CAL3	N	Water	03/28/2023 16:01:38			2 +/- 0.5	1	1			0.074	0.0985
WET CR6_Q	CAL4	CAL4	N	Water	03/28/2023 16:02:39			2 +/- 0.5	1	1			0.148	0.1990
WET CR6_Q	CAL5	CAL5	N	Water	03/28/2023 16:03:41			2 +/- 0.5	1	1			0.219	0.2954
WET CR6_Q	CAL6	CAL6	N	Water	03/28/2023 16:04:43			2 +/- 0.5	1	1			0.299	0.4040
WET CR6_Q	ICV	ICV	Y	Water	03/28/2023 16:05:28			2 +/- 0.5	1	1			0.145	0.1949
WET CR6_Q	ICB	ICB	Y	Water	03/28/2023 16:06:26			2 +/- 0.5	1	1			0	-0.0020
WET CR6_Q	CRDL	CRDL	Y	Water	03/28/2023 16:07:53			2 +/- 0.5	1	1			0.02	0.0252
7196 W	BLANK	1516096	Y	Water	03/28/2023 16:08:20	5.88	2	2 +/- 0.5	50	50			0	-0.0020
7196 W	LCS	1516097	Y	Water	03/28/2023 16:09:32	5.64	2	2 +/- 0.5	50	50			0.146	0.1962
7196 W	PS	70250978008	Y	Water	03/28/2023 16:10:34	6.12	2	2 +/- 0.5	50	50	0.001	0.216	0.2150	0.2899
7196 W	PS	70250978001	Y	Water	03/28/2023 16:11:29	5.56	2	2 +/- 0.5	50	50	0.013	0.013	0.0000	-0.0020
7196 W	RQS	70250978002	Y	Water	03/28/2023 16:12:35	5.94	2	2 +/- 0.5	50	50	0.001	0.224	0.2230	0.3049
7196 W	MS	1516098	Y	Water	03/28/2023 16:13:22	5.68	2	2 +/- 0.5	50	50	0.001	0.326	0.3250	0.4393
7196 W	DUP	1516099	Y	Water	03/28/2023 16:14:21	5.23	2	2 +/- 0.5	50	50	0.001	0.227	0.2260	0.3049



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Run Date/Time	Initial pH	Final pH	pH Acceptance Range	Initial Amount (g mL wipe)	Final Volume (mL)	Initial Abs	Final Abs	Absorbance	Cr6 Conc.
7196 W	PS	70250978003	Y	Water	03/28/2023 16:15:37	6.13	2	2 +/- 0.5	50	50	0.001	-0.001	-0.0020	-0.0047
7196 W	PS	70250978004	Y	Water	03/28/2023 16:16:33	5.74	2	2 +/- 0.5	50	50	0.003	0.003	0.0000	-0.0020
7196 W	PS	70250978005	Y	Water	03/28/2023 16:17:27	5.44	2	2 +/- 0.5	50	50	0.009	0.01	0.0010	-0.0006
7196 W	PS	70250978006	Y	Water	03/28/2023 16:18:31	5.39	2	2 +/- 0.5	50	50	0.001	0.001	0.0000	-0.0020
WET CR6_Q	CCV	CCV	Y	Water	03/28/2023 16:19:24			2 +/- 0.5	1	1			0.168	0.2261
WET CR6_Q	CCB	CCB	Y	Water	03/28/2023 16:20:25			2 +/- 0.5	1	1			0	-0.0020

QC Rule	Sample Type	Lab Sample ID	Units	Dilution	Final Cr6	Final Units	Sample Notes	HEXCR-SPK (mL)	CAL-STD
WET CR6_Q	CAL0	CAL0	mg/L	1.00	-0.0020	mg/L			153649 (1)
WET CR6_Q	CAL1	CAL1	mg/L	1.00	0.0224	mg/L			153650 (1)
WET CR6_Q	CAL2	CAL2	mg/L	1.00	0.0428	mg/L			153651 (1)
WET CR6_Q	CAL3	CAL3	mg/L	1.00	0.0985	mg/L			153652 (1)
WET CR6_Q	CAL4	CAL4	mg/L	1.00	0.1990	mg/L			153653 (1)
WET CR6_Q	CAL5	CAL5	mg/L	1.00	0.2954	mg/L			153654 (1)
WET CR6_Q	CAL6	CAL6	mg/L	1.00	0.4040	mg/L			153655 (1)
WET CR6_Q	ICV	ICV	mg/L	1.00	0.1949	mg/L			
WET CR6_Q	ICB	ICB	mg/L	1.00	-0.0020	mg/L			126731 (1)
WET CR6_Q	CRDL	CRDL	mg/L	1.00	0.0252	mg/L			
7196 W	BLANK	1516096	mg/L	1.00	-0.0020	mg/L			
7196 W	LCS	1516097	mg/L	1.00	0.1962	mg/L		150899 (.2)	
7196 W	PS	70250978008	mg/L	1.00	0.2899	mg/L			
7196 W	PS	70250978001	mg/L	1.00	-0.0020	mg/L			
7196 W	RQS	70250978002	mg/L	1.00	0.3008	mg/L			



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Units	Dilution	Final Cr6	Final Units	Sample Notes	HEXCR-SPK (mL)	CAL-STD
7196 W	MS	1516098	mg/L	1.00	0.4393	mg/L		150899 (.2)	
7196 W	DUP	1516099	mg/L	1.00	0.3049	mg/L			
7196 W	PS	70250978003	mg/L	1.00	-0.0047	mg/L			
7196 W	PS	70250978004	mg/L	1.00	-0.0020	mg/L			
7196 W	PS	70250978005	mg/L	1.00	-0.0006	mg/L			
7196 W	PS	70250978006	mg/L	1.00	-0.0020	mg/L			
WET CR6_Q	CCV	CCV	mg/L	1.00	0.2261	mg/L			
WET CR6_Q	CCB	CCB	mg/L	1.00	-0.0020	mg/L			126731 (1)

Standard Notes:

126731: WET CR6 CAL0
153651: WET CR6 CAL2
153655: WET CR6 CAL6

150899: Working Standard HexChrom for Spikes
153652: WET CR6 CAL3

153649: WET CR6 CAL0
153653: WET CR6 CAL4

153650: WET CR6 CAL1
153654: WET CR6 CAL5