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September 23, 2024

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Attention: Site Attorney (1 copy)

United States Department of Justice
Chief, Environmental Enforcement Section
Environment and Natural Resources Division
950 Pennsylvania Avenue, NW
Washington, DC 20530-0001
DOJ # (90-11-3-1575) (1 copy)

Subject: Malta Rocket Fuel Area Site - Malta, New York
Consent Decree 98-CV-0014 - Remedial Work Elements II and IV
2023 Annual O&M Report

Dear Agency Officials:

Enclosed please find the Annual Operation & Maintenance Report summarizing recent activities at the referenced site. This Report discusses remedial work elements II and IV and covers the period of January 1, 2023 through December 31, 2023. Feel free to contact me if you have any questions regarding this project.

Sincerely,

Matthew Calacone
Senior Project Manager
Corporate Holdings
GE Aerospace

cc, electronic:

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Enclosure: Annual O&M Report

Intended for
General Electric

Document type
Final Report

Date
September 23, 2024

Annual O&M Report Remedial Work Elements II and IV

January through December 2023

RAMBOLL Bright ideas. Sustainable change.

Annual O&M Report Remedial Work Elements II and IV

January through December 2023

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1. Introduction

This Annual Operations and Maintenance (O&M) Report was prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of the General Electric Company (GE) for the Malta Rocket Fuel Area (MRFA) in the Town of Malta, New York (the Site). The Site layout and sampling locations are provided on **Figure 1,** in addition to the parcel boundaries and the Environmental Restriction Zone (ERZ) boundary. The ERZ boundary is based on the survey conducted during development of the Remedial Work Element IV Operations and Maintenance Manual (IT Corporation, Inc., 1999) and has been recorded in the registry of deeds for each property.

This report documents the Site activities associated with the Remedial Work Element II Groundwater Operations and Monitoring Manual [Element II O&M Manual] (ERM-Northeast, Inc., 1998) and the Operation and Maintenance Manual Remedial Work Element IV – Institutional Controls (IT Corporation, Inc., 1999) that were performed for the period from January 1, 2023, through December 31, 2023.

2. Element II Monitoring (Groundwater)

Surface water and groundwater monitoring was performed in accordance with the Element II O&M Manual at the monitoring locations presented in the Sixth Five-Year Review Report (United States Environmental Protection Agency [USEPA], 2024) to evaluate groundwater quality and to assess the natural attenuation and degradation of Site-related constituents of concern (COCs), particularly hexavalent chromium, carbon tetrachloride, trichloroethene (TCE), chloromethane, and chloroform. The 2022 Revised Annual OM&M Report (Ramboll, 2023) included the recommendation to reduce the monitoring frequency from semi-annual to annual based on the relative consistency of recent data and lack of seasonal variation between the sampling events. The report also included the recommendation to remove DGC-3S from the monitoring program based on its location and lack of detections of Site-related COCs over the previous five years. These recommendations were approved by USEPA via email on May 8, 2023. The annual surface water and groundwater monitoring event was conducted from September 25 to 28, 2023.

2.1 Hydraulic Conditions

On September 25, 2023, Ramboll measured groundwater levels at the 19 Site monitoring wells. Depth to groundwater, groundwater elevations, and well construction details are presented in **Table 1**. Hydraulic conditions at the Site are illustrated through groundwater elevation contour maps for the shallow and deep overburden wells, which are presented in **Figures 2** and **3**, respectively.

As shown in **Figure 2**, the groundwater flow direction within the shallow overburden is generally southwest. **Figure 3** shows that the groundwater flow direction in the deep overburden is also generally southwest, however, an approximated groundwater divide is indicated by the groundwater elevation at monitoring well MW-11D.

2.2 Sample Collection

Samples were collected from 19 groundwater monitoring wells and six surface water locations (SW-A, SW-B, SW-D, SW-E, SW-F, and SW-G). These sample locations include monitoring wells and surface water locations associated with the previously established Early Warning Monitoring System (EWMS) for the Site. The initial EWMS included surface water sampling locations SW-A, SW-B, SW-C, and SW-D. Additional monitoring locations (SW-E, SW-F, and SW-G) were added through subsequent modifications of the Element II O&M Manual. Surface water location SW-C was removed from the program with the January 22, 1998, submittal of the Element II O&M Manual, which was approved by USEPA on February 4, 1998.

Surface water samples were collected as grab samples. Groundwater samples were collected using low-flow sampling techniques.

Depth to water measurements and field parameters were recorded from each monitoring well location prior to sampling. In addition, field parameters were recorded from the grab surface water sample locations. The 2023 groundwater sampling logs are provided in **Appendix A**.

2.3 Analytical Results

Groundwater and surface water samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260C and ethane by USEPA Method RSK 175, by Eurofins TestAmerica laboratory

in Amherst, New York. In addition, samples collected from monitoring wells M-27D, 13D, and surface water location SW-B were analyzed for total chromium by USEPA Method 6010C and hexavalent chromium by USEPA Method 7196A by the Amherst laboratory. Analytical Results

A summary of detected constituents in groundwater and surface water from the September 2023 sampling event is presented in **Table 2**. Site-related COCs with concentrations detected above their respective New York State Groundwater Standard (NYSGWS) in 2023 are shown on **Figure 4**.

The 2023 analytical laboratory report is provided in **Appendix B.** A data quality review was performed on the 2023 analytical results as part of the monitoring program. In addition, a summary of analytical results from previous years is provided in **Appendix C**.

A discussion of Site-related COCs is presented below.

2.3.1 Chromium

Total Chromium

In September 2023, unfiltered total chromium was detected in monitoring well M-27D at a concentration of 63 µg/L, which is above the NYSGWS for total chromium of 50 µg/L. Unfiltered total chromium was detected in monitoring well 13D and surface water location SW-B at an estimated concentration of 3.3 µg/L and 1.4 µg/L, respectively; well below the NYSGWS. Each of the 2023 chromium concentrations are within the range of the results from the previous five years.

Hexavalent Chromium

In September 2023, unfiltered hexavalent chromium was detected in M-27D at an estimated concentration of 9.2 µg/L (below NYSGWS for hexavalent chromium of 50 µg/L). Unfiltered hexavalent chromium was not detected above the method detection limit in monitoring well 13D or surface water location SW-B.

Over the previous five years, detected concentrations of hexavalent chromium have generally not exceeded the NYSGWS of 50 µg/L. The 2023 hexavalent chromium concentrations are within the range of the results from the previous five years for monitoring well 13D and are slightly higher than previous results for monitoring well M-27D.

2.3.2 VOCs

Carbon tetrachloride

In September 2023, carbon tetrachloride was detected in 12 of the 19 monitoring wells sampled. Carbon tetrachloride detections ranged from an estimated concentration of 0.43 µg/L in monitoring well 10S to 19 µg/L in monitoring well M-25D. Only four monitoring wells (M-25S, M-25D, M-27D, and M-29D) had detections above the NYSGWS for carbon tetrachloride of 5.0 µg/L. A concentration trend plot for carbon tetrachloride in monitoring well M-27D from 1992 to 2023 is presented on **Figure 5**. Carbon tetrachloride was not detected above the method detection limit at the surface water locations during the 2023 sampling event. Each of the 2023 carbon tetrachloride concentrations are within the range of the results from the previous five years.

TCE

In September 2023, TCE was detected in 11 of the 19 monitoring wells. TCE detections ranged from an estimated concentration of 0.63 µg/L in monitoring well M-28D to 51 µg/L in monitoring

well M-25D. Five monitoring wells (M-24DR, M-25S, M-25D, M-28S, and M-29D) had detections above the NYSGWS for TCE of 5.0 µg/L. A concentration trend plot for TCE in monitoring well M-27D from 1998 to 2023 is presented on **Figure 6**. The concentration of TCE at M-27D has remained below the NYSGWS standard since 2021, and each of the 2023 TCE concentrations are within the range of the results from the previous five years.

Chloromethane

In September 2023, chloromethane was not detected above the method detection limit in groundwater or surface water samples. The 2023 chloromethane concentrations are within the range of the results from the previous five years and have generally not exceeded the NYSGWS.

Chloroform

In September 2023, chloroform was detected in samples collected from three of the 19 monitoring wells. Chloroform detections ranged from an estimated concentration of 0.59 µg/L in monitoring well M-25S to 2.2 µg/L in monitoring well M-27D, each below the NYSGWS of 7.0 µg/L. The 2023 chloroform concentrations are within the range of the results from the previous five years and have generally not exceeded the NYSGWS.

2.4 Comparison of Observed VOC Concentrations to Simulated Concentrations

The concentration trend plots for carbon tetrachloride and TCE in monitoring well M-27D were compared to the prior groundwater transport modeling results for monitoring wells M-27S and M-27D (included in the Element II O&M Manual) to assess the timeframe for natural attenuation and degradation of carbon tetrachloride and TCE at the Site. The comparisons for carbon tetrachloride and TCE are presented on **Figure 7** and **Figure 8**, respectively. As shown in both figures, the observed concentrations for carbon tetrachloride and TCE in M-27D continue to be below the simulated concentrations generated by the modeling.

2.5 Evaluation of Recent Contaminant Attenuation Trends

To further evaluate the natural attenuation and degradation of Site-related COCs, a Mann-Kendall (MK) trend analysis was performed for the carbon tetrachloride, TCE, and total chromium results for the subset of sampling locations with sufficient detections to allow for trend analysis.

MK is a non-parametric method that evaluates temporal trends in data. Rather than using raw values for concentration over time, MK uses ranked values, which makes the analysis more robust to outliers. In addition, using MK trend analysis reduces the likelihood of falsely identifying statistically significant temporal trends.

MK trend analysis was performed for the nine monitoring wells with sufficient detections of carbon tetrachloride, TCE and/or total chromium (MW-13S, MW-13D, MW-24DR, MW-25S, MW-25D, MW-27D, MW-28S, MW-29S, and MW-29D). The MK analysis used the 2023 annual results over:

(a) An approximate 11-year period (MW-13S, MW-13D, MW-24DR, MW-25D, MW-27D, and MW-29D)
(b) An approximate nine-year period (MW-25S, MW-28S, and MW-29S)

The MK statistical results are summarized on **Table 3**. To provide significant statistical results, trends were identified using a 95% confidence interval. **Table 3** also shows the most recent concentration for each well:constituent combination.

As presented on **Table 3**, three (17.6%) of the 17 well:constituent combinations showed a statistically significant increasing trend:

- TCE in MW-24DR and MW-25S
- Total chromium in MW-27D

In contrast, seven (41.2%) of the 17 well:constituent combinations showed a statistically significant decreasing trend:

- Carbon Tetrachloride in 13S, MW-25S, MW-25D and MW-27D
- TCE in 13S, M-27D and M-29S

Further, seven (41.2%) of the 17 well:constituent combinations were stable (no significant trend):

- Chromium in 13D
- Carbon Tetrachloride in M-24DR, M-29S and M-29D
- TCE in M-25D, M-28S and M-29D

In summary, 82% of the well:constituent combinations showed a statistically significant declining trend or were stable over the past nine to 11 years. Three of the 17 well:constituent combinations showed a statistically significant increasing trend, although for well M-24DR and TCE, the most recent detected concentration (6.3 µg/L) was slightly above the NYSGWS of5.0 µg/L.

3. Element IV Monitoring (Institutional Controls)

O&M activities for remedial Work Element IV, Institutional Controls, are conducted on an annual basis. Visual inspections of the ERZ were conducted during the 2023 annual monitoring event. Interviews with property owners regarding changes in conditions within the ERZ were conducted annually via email or phone. Additionally, GE has been assisting USEPA with updating revised easements to incorporate the requirements of the 2018 Explanation of Significant Differences (USEPA, 2018).

3.1 Inspections

On September 25 through 28, 2023, Site conditions within the ERZ boundary were inspected to evaluate changes or new property development, specifically the installation of new groundwater wells. The inspections were conducted in the following areas of the site:

- Proximate to the surface water sampling locations and monitoring well locations, as well as along the access roads and paths leading to these locations.
- Proximate to Building 15 at the MRFA site.

3.2 Interviews with Property Owners

Interviews were conducted with the following representatives regarding the ERZ:

- Ms. Jaime O'Neill, representing the Town of Malta, provided a completed interview form via telephone on February 9, 2024. Ms. O'Neill stated that she was not aware of any new groundwater usage, any current or proposed changes in land use, or any other conditions or actions within the ERZ that would impact the easement or covenants.
- Mr. Kevin Hunt, representing New York State Energy Research and Development Authority (NYSERDA), provided a completed interview form via email on March 1, 2024. Mr. Hunt stated that he was not aware of any new groundwater usage, any current or proposed changes in land use, or any other conditions or actions within the ERZ that would impact the easement or covenants. Mr. Hunt did indicate that notice of the Environmental Restriction Easement and Declaration of Restrictive Covenants were conveyed to interested parties. Mr. Hunt indicated he was aware of the notice requirements associated with the Environmental Restriction Easement and Declaration of Restrictive Covenants.

  Ms. Stephanie Kaczynski, representing GlobalFoundries, provided a completed interview form via email on January 4, 2024. Ms. Kaczynski stated that she was not aware of any new groundwater usage, any current or proposed changes in land use, or any other conditions or actions within the ERZ that would impact the easement or covenants. She was aware of the notice requirements associated with notification of and written approval by USEPA prior to disturbance or contact with Site groundwater.

  On April 27, 2023, GlobalFoundries purchased the MRFA property from the Luther Forest Technology Campus Economic Development Corporation (LFTCDC) with anticipation of future development.

Interview logs documenting the correspondence with each property representative are included in **Appendix D**.

4. Summary

4.1 Element II Monitoring (Groundwater)

- The groundwater flow direction within the shallow overburden is generally southwest. The groundwater flow direction in the deep overburden is also generally south.
- In September 2023, unfiltered total chromium was detected in one groundwater sample (monitoring well M-27D) at a concentration above the NYSGWS. Estimated concentrations of total chromium were detected in monitoring well 13D and surface water sample SW-B, below the NYSGWS.
- In September 2023, hexavalent chromium was detected at an estimated concentration below the NYSGWS in the groundwater sample collected at monitoring well M-27D.
- In September 2023, carbon tetrachloride was detected in 12 of the 20 monitoring wells. Five of the 12 monitoring wells had detections above the NYSGWS.
- In September 2023, TCE was detected in 11 of the 20 monitoring wells. Five of the 12 monitoring wells had detections above the NYSGWS.
- In September 2023, chloromethane was not detected in the sample locations above the method detection limit.
- In September 2023, chloroform was detected in three of the 20 monitoring wells sampled at concentrations below the NYSGWS.
- As shown in **Figures 7** and **8**, the observed concentrations in M-27D continue to be below the simulated carbon tetrachloride and TCE concentrations generated by the prior modeling.
- The results of the MK trend analysis illustrate 82% of the well:constituent combinations showed a statistically significant declining trend or were stable over the past nine or 11 years. Three of the 17 well:constituent combinations showed a statistically significant increasing trend.

4.2 Element IV Monitoring (Institutional Controls)

- Property owner representatives interviewed were not aware of any new groundwater usage, any current or proposed changes in land use, or any other conditions or actions within the ERZ that would impact the easement or covenants.
- GlobalFoundries purchased property from LFTCDC on April 27, 2023 for future development.

5. Recommendations

Based on a review of the of Site-related contaminant concentrations over the past five years, the following recommendations are presented.

Based on the recommendation provided in the 2022 Revised Annual OM&M Report, GE will prepare addendums to the Element II O&M Manual and Remedial Work Element IV O&M Manual to reflect recent changes to the monitoring program and property owners/easements and requirements of the 2018 Explanation of Significant Differences for the Site (USEPA, 2018).

6. References

ERM Northeast, Inc., 1998. *Operations and Maintenance Manual for Remedial Work Element II - Groundwater*. January 22, 1998.

United States Environmental Protection Agency, 2018. *Explanation of Significant Differences, Malta Rocket Fuel Area Superfund Site*. May 7, 2018.

United States Environmental Protection Agency, 2024. *Sixth Five-Year Review Report, Malta Rocket Fuel Area Superfund Site*. February 1, 2024.

IT Corporation, Inc., 1999. *Operation and Maintenance Manual, Remedial Work Element IV, Institutional Controls*. September 27, 1999.

Ramboll Americas Engineering Solution, Inc., 2023. *Revised Annual O&M Report Remedial Work Elements II and IV*. December 5, 2023.

Tables

Table 1
Well Construction Details and Groundwater Elevation Data
Malta Rocket Fuel Area Site
Malta, New York

Well ID	Diameter (in)	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Ground Elevation (ft amsl)	Measuring Point Elevation (ft amsl)	Depth To Water (ft bmp)	Ground Water Elevation (ft amsl)
DGC-4S	2	17	29.6	203.9	205.8	9.89	195.91
DGC-3S	2	5	23	212.6	215.28	NA	NA
M-27D	4	60	70	319.6	321.58	33.47	288.11
10S	2	30	40	327	329.54	34.54	295.00
13S	2	30	40	327.2	329.26	32.47	296.79
13D	2	57	67	327.3	329.27	37.38	291.89
MW-4	2	29.5	39.5	325.5	326.46	27.66	298.8
MW-1	2	45	55	339.6	340.91	42.52	298.39
MW-24DR	4	58	68	NA	320.57	37.04	283.53
4D	2	60.1	65.1	325.7	327.55	39.4	288.15
4S	2	32	47	326.2	329.08	39.49	289.59
MW-25S	2	28	38	311.7	314.1	27.62	286.48
MW-25D	2	53	63	312.7	314.46	30.08	284.38
MW-29D	4	73	83	332.3	334.66	44.94	289.72
MW-29S	2	42	52	332.2	334.5	42.7	291.8
MW-28S	2	52	62	340.3	342.24	50.46	291.78
MW-28D	4	74	84	341.1	342.85	51.03	291.82
MW-26D	4	74	84	325.7	327.9	27.56	300.34
MW-26S	2	32	42	325.7	327.46	19.75	307.71
11D	2	62	72	317.6	319.68	30.31	289.37

Notes:

1. "in" designates inches. "ft bgs" designates feet below ground surface. "ft amsl" designates feet above mean sea level. "ft bmp" designates feet below measuring point.

Table 2
2023 Water Quality Analytical Results
Malta Rocket Fuel Area Site
Malta, New York

Analytical Parameters	Regulatory Criteria		Location ID Sample ID Sample Date	DGC-4S GW-DGC-4S-09282023 9/28/2023	4S GW-4S-09282023 9/28/2023	4D GW-4D-09282023 9/28/2023	10S GW-10S-09262023 9/26/2023	11D GW-11D-09262023 9/26/2023
	Groundwater	Surface Water						
1,1,1-Trichloroethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	50[G]	50[G]		10 U	10 U	10 U	10 U	10 U
Acetone	5	5[G]		10 U	10 U	10 U	10 U	10 U
Carbon disulfide	60[G]	60[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	0.4[G]		1.0 U	1.0 U	1.0 U	**0.43 J**	**4.7**
Chloroform	7	7		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5		1.0 U	1.0 U	1.0 U	**0.73 J**	**1.4**
Trichlorofluoromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethane	N.C.	N.C.		7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Chromium	50	50		--	--	--	--	--
Chromium, hexavalent	50	11		--	--	--	--	--

Notes:

1. Regulatory criteria and analytical parameters are in micrograms per liter (µg/L).
2. Samples were analyzed by Eurofins Buffalo in Amherst, New York. Samples analyzed for volatile organic compounds and dissolved gases using Enviromental Protection Agency (EPA)-SW-846 Method 8260C and RSK-175, respectively. Total chromium and hexavalent chromium samples were analyzed by EPA-SW-846 Methods 6010C and 7196A, respectively.
3. Regulatory criteria are 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations and Ambient Water Quality Standards and Guidance Values from New York State Department of Environmental Conservation (NYSDEC) TOGS 1.1.1 (1993 and April 2000 Adendum). "G" indicates criterion is a guidance value, not a standard. "N.C." indicates there are no standards or guidance values available. Exceedances are marked with "*".
4. "U" designates analyte was analyzed for but not detected.
5 "J" designates analyte detected at an estimated concentration that is less than the laboratory's reporting limit but greater than or equal to the method detection limit. Reporting limit shown.
6 --- designates not sampled.
7. "UJ" designates analyte not detected at an estimated reporting limit.
8. Internal laboratory qualifiers are not reported.
9. Analytical detections are bolded.

Table 2
2023 Water Quality Analytical Results
Malta Rocket Fuel Area Site
Malta, New York

Analytical Parameters	Regulatory Criteria		Location ID Sample ID Sample Date	13S GW-13S-09262023 9/26/2023	13D GW-13D-09252023 9/25/2023	MW-1 GW-M-1-09272023 9/27/2023	MW-4 GW-MW-4-09272023 9/27/2023	M-24DR GW-M-24DR-09282023 9/28/2023
	Groundwater	Surface Water						
1,1,1-Trichloroethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	50[G]	50[G]		10 U	10 U	10 U	10 U	10 U
Acetone	5	5[G]		10 U	10 U	10 U	10 U	10 U
Carbon disulfide	60[G]	60[G]		1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Carbon tetrachloride	5	0.4[G]		**1.3**	**0.61 J**	1.0 U	1.0 U	**4.0**
Chloroform	7	7		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5	5		**0.42 J**	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5		**1.0**	1.0 U	1.0 U	1.0 U	**6.3***
Trichlorofluoromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethane	N.C.	N.C.		7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Chromium	50	50		--	**3.3 J**	--	--	--
Chromium, hexavalent	50	11		--	10 U	--	--	--

Notes:

1. Regulatory criteria and analytical parameters are in micrograms per liter (µg/L).
2. Samples were analyzed by Eurofins Buffalo in Amherst, New York. Samples analyzed for volatile organic compounds and dissolved gases using Enviromental Protection Agency (EPA)-SW-846 Method 8260C and RSK-175, respectively. Total chromium and hexavalent chromium samples were analyzed by EPA-SW-846 Methods 6010C and 7196A, respectively.
3. Regulatory criteria are 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations and Ambient Water Quality Standards and Guidance Values from New York State Department of Environmental Conservation (NYSDEC) TOGS 1.1.1 (1993 and April 2000 Adendum). "G" indicates criterion is a guidance value, not a standard. "N.C." indicates there are no standards or guidance values available. Exceedances are marked with "*".
4. "U" designates analyte was analyzed for but not detected.
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6 --- designates not sampled.
7. "UJ" designates analyte not detected at an estimated reporting limit.
8. Internal laboratory qualifiers are not reported.
9. Analytical detections are bolded.

Table 2
2023 Water Quality Analytical Results
Malta Rocket Fuel Area Site
Malta, New York

Analytical Parameters	Regulatory Criteria		Location ID Sample ID Sample Date	M-25S GW-M-25S-09272023 9/27/2023	M-25D GW-M-25D-09272023 9/27/2023	M-26S GW-M-26S-09262023 9/26/2023	M-26D GW-M-26D-09262023 9/26/2023	M-26D DUP-2-09262023 9/26/2023
	Groundwater	Surface Water						
1,1,1-Trichloroethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	50[G]	50[G]		10 U	10 U	10 U	10 U	10 U
Acetone	5	5[G]		10 U	10 U	10 U	10 U	10 U
Carbon disulfide	60[G]	60[G]		1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	0.4[G]		**11***	**19***	1.0 U	1.0 U	1.0 U
Chloroform	7	7		**0.59 J**	**1.1**	1.0 U	1.0 U	1.0 U
Chloromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5	5		**0.85 J**	**0.59 J**	1.0 U	1.0 U	1.0 U
Methylene chloride	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5		**26***	**51***	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethane	N.C.	N.C.		7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Chromium	50	50		--	--	--	--	--
Chromium, hexavalent	50	11		--	--	--	--	--

Notes:

1. Regulatory criteria and analytical parameters are in micrograms per liter (µg/L).
2. Samples were analyzed by Eurofins Buffalo in Amherst, New York. Samples analyzed for volatile organic compounds and dissolved gases using Enviromental Protection Agency (EPA)-SW-846 Method 8260C and RSK-175, respectively. Total chromium and hexavalent chromium samples were analyzed by EPA-SW-846 Methods 6010C and 7196A, respectively.
3. Regulatory criteria are 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations and Ambient Water Quality Standards and Guidance Values from New York State Department of Environmental Conservation (NYSDEC) TOGS 1.1.1 (1993 and April 2000 Adendum). "G" indicates criterion is a guidance value, not a standard. "N.C." indicates there are no standards or guidance values available. Exceedances are marked with "*".
4. "U" designates analyte was analyzed for but not detected.
5 "J" designates analyte detected at an estimated concentration that is less than the laboratory's reporting limit but greater than or equal to the method detection limit. Reporting limit shown.
6 --- designates not sampled.
7. "UJ" designates analyte not detected at an estimated reporting limit.
8. Internal laboratory qualifiers are not reported.
9. Analytical detections are bolded.

Table 2
2023 Water Quality Analytical Results
Malta Rocket Fuel Area Site
Malta, New York

Analytical Parameters	Regulatory Criteria		Location ID Sample ID Sample Date	M-27D GW-M-27D-09262023 9/26/2023	M-28S GW-M-28S-09272023 9/27/2023	M-28D GW-M-28D-0927023 9/27/2023	M-29S GW-M-29S-09272023 9/27/2023	M-29D GW-M-29D-09272023 9/27/2023
	Groundwater	Surface Water						
1,1,1-Trichloroethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	50[G]	50[G]		10 U	10 U	10 U	10 U	10 U
Acetone	5	5[G]		10 U	10 U	10 U	10 U	10 U
Carbon disulfide	60[G]	60[G]		1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon tetrachloride	5	0.4[G]		**8.4***	**4.1**	**1.6**	**2.2**	**9.0***
Chloroform	7	7		**2.2**	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5	5		**0.77 J**	**2.1**	1.0 U	1.0 U	**1.3**
Methylene chloride	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5		**3.3**	**14***	**0.63 J**	**4.2**	**27***
Trichlorofluoromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethane	N.C.	N.C.		7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Chromium	50	50		**63***	--	--	--	--
Chromium, hexavalent	50	11		**9.2 J**	--	--	--	--

Notes:

1. Regulatory criteria and analytical parameters are in micrograms per liter (µg/L).
2. Samples were analyzed by Eurofins Buffalo in Amherst, New York. Samples analyzed for volatile organic compounds and dissolved gases using Enviromental Protection Agency (EPA)-SW-846 Method 8260C and RSK-175, respectively. Total chromium and hexavalent chromium samples were analyzed by EPA-SW-846 Methods 6010C and 7196A, respectively.
3. Regulatory criteria are 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations and Ambient Water Quality Standards and Guidance Values from New York State Department of Environmental Conservation (NYSDEC) TOGS 1.1.1 (1993 and April 2000 Adendum). "G" indicates criterion is a guidance value, not a standard. "N.C." indicates there are no standards or guidance values available. Exceedances are marked with "*".
4. "U" designates analyte was analyzed for but not detected.
5 "J" designates analyte detected at an estimated concentration that is less than the laboratory's reporting limit but greater than or equal to the method detection limit. Reporting limit shown.
6 --- designates not sampled.
7. "UJ" designates analyte not detected at an estimated reporting limit.
8. Internal laboratory qualifiers are not reported.
9. Analytical detections are bolded.

Table 2
2023 Water Quality Analytical Results
Malta Rocket Fuel Area Site
Malta, New York

Analytical Parameters	Regulatory Criteria		Location ID Sample ID Sample Date	SW-A SW-A-09282023 9/28/2023	SW-B SW-B-09252023 9/25/2023	SW-B FD-1-09252023 9/25/2023	SW-D SW-D-09272023 9/27/2023	SW-E SW-E-09282023 9/28/2023
	Groundwater	Surface Water						
1,1,1-Trichloroethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	50[G]	50[G]		10 U	10 U	10 U	10 U	10 U
Acetone	5	5[G]		10 U	10 U	10 U	10 U	10 U
Carbon disulfide	60[G]	60[G]		1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	5	0.4[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	7		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.7[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5[G]		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethane	N.C.	N.C.		7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Chromium	50	50		--	**1.4 J**	**1.5 J**	--	--
Chromium, hexavalent	50	11		--	10 U	10 U	--	--

Notes:

1. Regulatory criteria and analytical parameters are in micrograms per liter (µg/L).
2. Samples were analyzed by Eurofins Buffalo in Amherst, New York. Samples analyzed for volatile organic compounds and dissolved gases using Enviromental Protection Agency (EPA)-SW-846 Method 8260C and RSK-175, respectively. Total chromium and hexavalent chromium samples were analyzed by EPA-SW-846 Methods 6010C and 7196A, respectively.
3. Regulatory criteria are 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations and Ambient Water Quality Standards and Guidance Values from New York State Department of Environmental Conservation (NYSDEC) TOGS 1.1.1 (1993 and April 2000 Adendum). "G" indicates criterion is a guidance value, not a standard. "N.C." indicates there are no standards or guidance values available. Exceedances are marked with "*".
4. "U" designates analyte was analyzed for but not detected.
5 "J" designates analyte detected at an estimated concentration that is less than the laboratory's reporting limit but greater than or equal to the method detection limit. Reporting limit shown.
6 --- designates not sampled.
7. "UJ" designates analyte not detected at an estimated reporting limit.
8. Internal laboratory qualifiers are not reported.
9. Analytical detections are bolded.

Table 2
2023 Water Quality Analytical Results
Malta Rocket Fuel Area Site
Malta, New York

Analytical Parameters	Regulatory Criteria		Location ID Sample ID Sample Date	SW-F SW-F-09282023 9/28/2023	SW-G SW-G-09282023 9/28/2023
	Groundwater	Surface Water			
1,1,1-Trichloroethane	5	5		1.0 U	1.0 U
1,1-Dichloroethene	5	0.7[G]		1.0 U	1.0 U
2-Butanone	50[G]	50[G]		10 U	10 U
Acetone	5	5[G]		10 U	10 U
Carbon disulfide	60[G]	60[G]		1.0 U	1.0 U
Carbon tetrachloride	5	0.4[G]		1.0 U	1.0 U
Chloroform	7	7		1.0 U	1.0 U
Chloromethane	5	5		1.0 U	1.0 U
cis-1,2-Dichloroethene	5	5		1.0 U	1.0 U
Freon-113	5	5		1.0 U	1.0 U
Methylene chloride	5	5		1.0 U	1.0 U
Tetrachloroethene	5	0.7[G]		1.0 U	1.0 U
Toluene	5	5[G]		1.0 U	1.0 U
Trichloroethene	5	5		1.0 U	1.0 U
Trichlorofluoromethane	5	5		1.0 U	1.0 U
Ethane	N.C.	N.C.		7.5 U	7.5 U
Chromium	50	50		--	--
Chromium, hexavalent	50	11		--	--

Notes:

1. Regulatory criteria and analytical parameters are in micrograms per liter (µg/L).
2. Samples were analyzed by Eurofins Buffalo in Amherst, New York. Samples analyzed for volatile organic compounds and dissolved gases using Enviromental Protection Agency (EPA)-SW-846 Method 8260C and RSK-175, respectively. Total chromium and hexavalent chromium samples were analyzed by EPA-SW-846 Methods 6010C and 7196A, respectively.
3. Regulatory criteria are 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations and Ambient Water Quality Standards and Guidance Values from New York State Department of Environmental Conservation (NYSDEC) TOGS 1.1.1 (1993 and April 2000 Adendum). "G" indicates criterion is a guidance value, not a standard. "N.C." indicates there are no standards or guidance values available. Exceedances are marked with "*".
4. "U" designates analyte was analyzed for but not detected.
5 "J" designates analyte detected at an estimated concentration that is less than the laboratory's reporting limit but greater than or equal to the method detection limit. Reporting limit shown.
6 --- designates not sampled.
7. "UJ" designates analyte not detected at an estimated reporting limit.
8. Internal laboratory qualifiers are not reported.
9. Analytical detections are bolded.

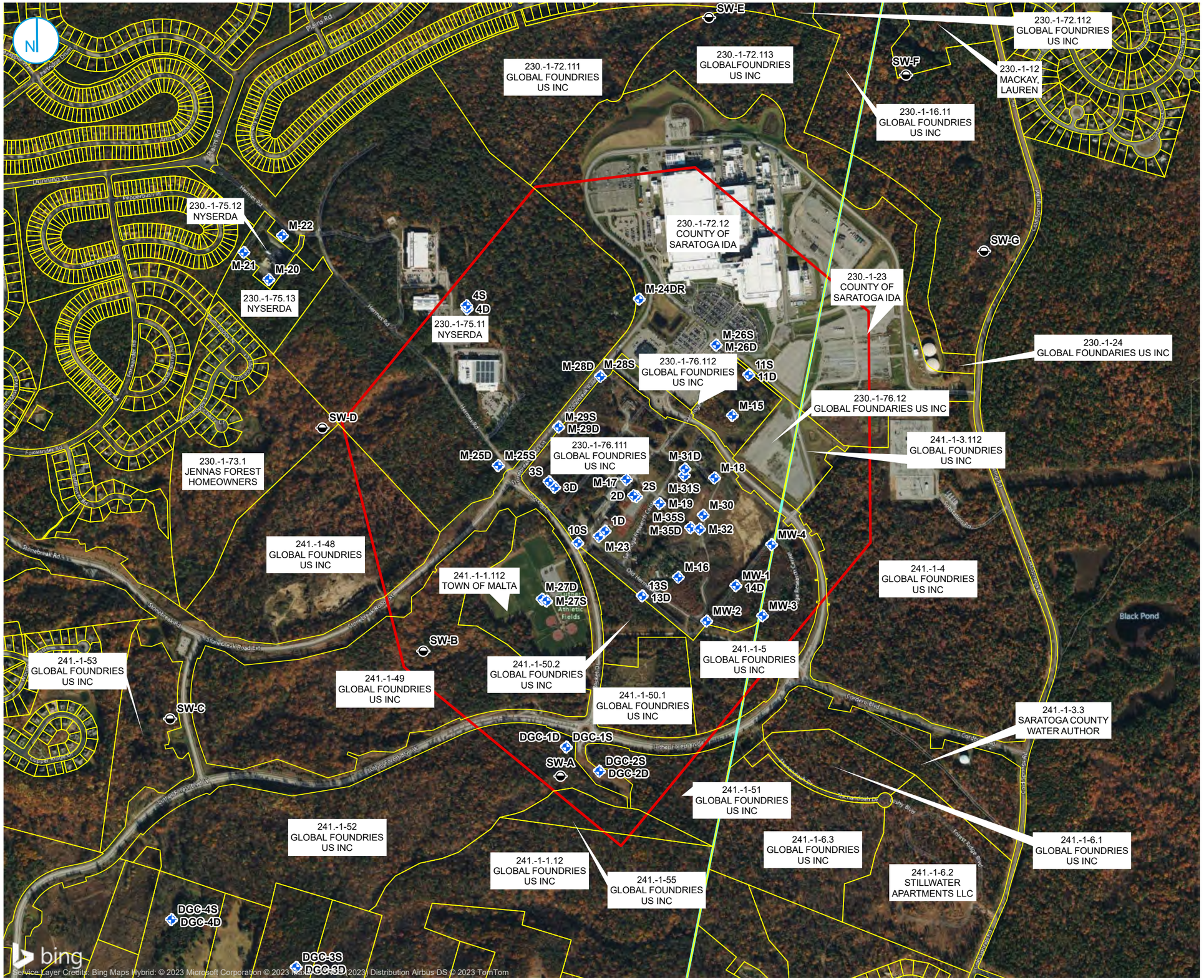
Table 3
Summary of Mann-Kendall Trend Analysis
Malta Rocket Fuel Area
Malta, New York

Well ID	Number of Samples	Groundwater Quality Standard	Historical Range of Concentrations	September 2023 Results	S Value	Trend
13S[a]						
Carbon Tetrachloride	11	5	ND - 24	**1.3**	-40	Decreasing
Trichloroethene	11	5	ND - 3.8	**1.0**	-37	Decreasing
13D						
Chromium	20	50	ND - 98.4	**3.3**	13	Stable/No Trend
M-24DR						
Carbon Tetrachloride	20	5	ND - 16	**4.0**	-29	Stable/No Trend
Trichloroethene	20	5	1.7 - 49	**6.3**	58	Increasing
M-25S[b]						
Carbon Tetrachloride	11	5	11.5 - 29	**11**	-46	Decreasing
Trichloroethene	11	5	7.8 - 31.5	**26**	32	Increasing
M-25D						
Carbon Tetrachloride	20	5	20.1 - 91	**19**	-57	Decreasing
Trichloroethene	20	5	3.0 - 93	**51**	-42	Stable/No Trend
M-27D						
Carbon Tetrachloride	20	5	ND - 75	**8.4**	-59	Decreasing
Trichloroethene	20	5	ND - 27	**3.3**	-157	Decreasing
Chromium	20	50	ND - 228	**63**	97	Increasing
M-28S[b]						
Trichloroethene	10	5	2.4 - 17.5	**4.1**	-1	Stable/No Trend
M-29S[b]						
Carbon Tetrachloride	10	5	3.9 - 14	**2.2**	-21	Stable/No Trend
Trichloroethene	10	5	1.3 - 11	**4.2**	-27	Decreasing
M-29D						
Carbon Tetrachloride	20	5	8.6 - 84	**9.0**	-33	Stable/No Trend
Trichloroethene	20	5	10 - 33	**27**	-14	Stable/No Trend

Notes:

1. Mann-Kendall analysis run on volatile organic compounds (VOCs) and chromium data collected annually starting in the fall of 2004 unless otherwise noted.
2. Significance level is 95 percent.
3. "[a]" designates VOC data collection started in the fall of 2012.
4. "[b]" designates VOC data collection started in the fall of 2014.
5. Detections are bolded.
5. Non-detects are reported at the practical quantitation limit.
6. Blind duplicate samples were not used in the statistical analysis.
7. Concentrations reported in micrograms per liter.

Figures



Monitoring Well Location
1999 Enviromental Restriction Zone
Parcel Boundary
Stillwater/Malta Town Line
Surface Water Location

Notes:
1. Parcel boundaries based on Saratoga County Planning Department.
2. Environmental Restriction Zone considered approximate.

0 1,000 2,000 Feet

SITE LAYOUT AND SAMPLING LOCATIONS

MALTA ROCKET FUEL AREA SITE
MALTA, NEW YORK

FIGURE 1

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

K:\GE-CEP.1087692\Standards\GIS\Malta Rocket Fuel\Figure1_SiteLayoutAndSamplingLocations.aprx\Ramboll_ANSI_B_Landscape

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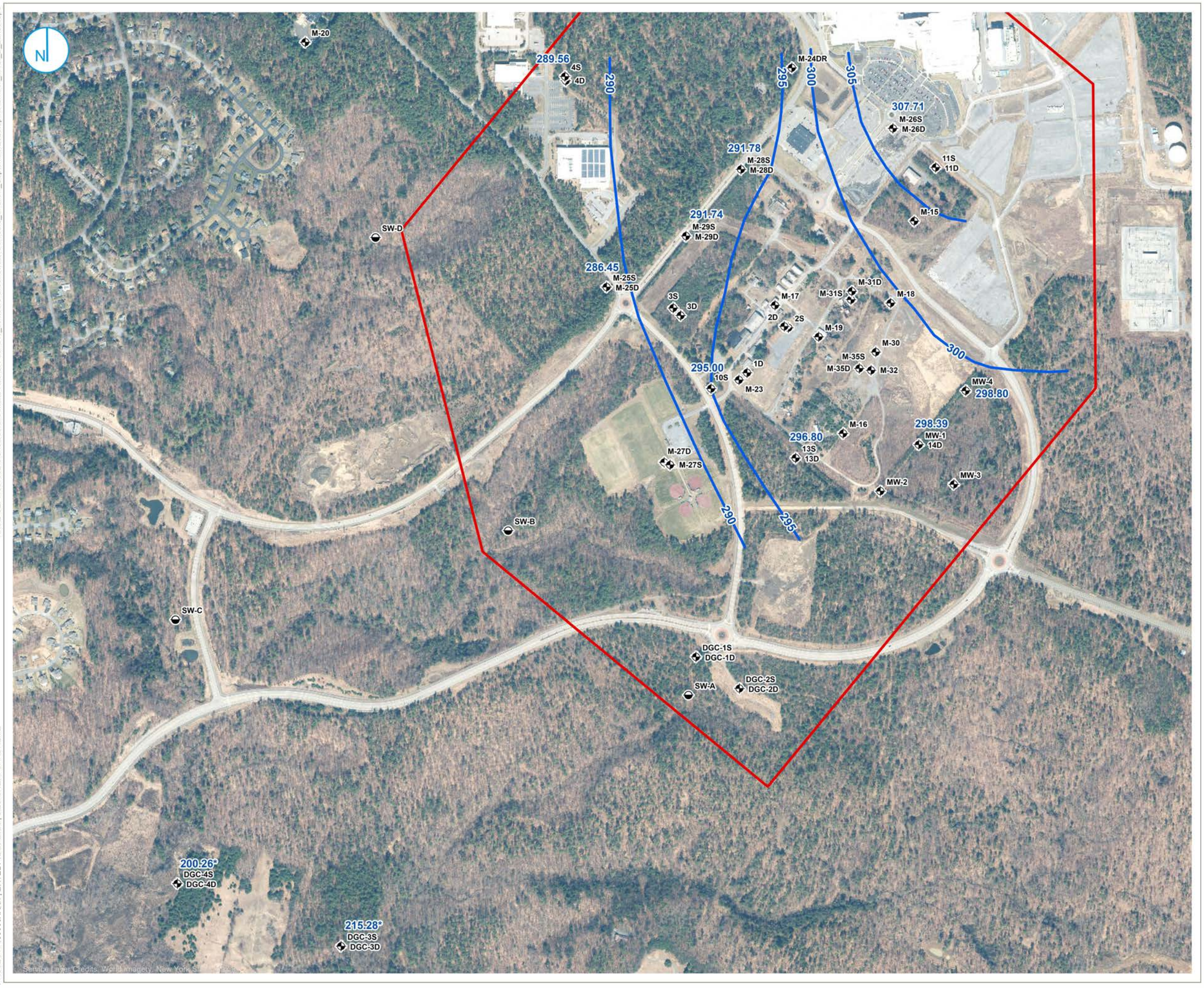


Shallow Groundwater Contour - September 2023

Well Locations

Surface Water Sample Locations

Enviromental Restriction Zone

Note:
"*" designates location is not used in contouring.

0 750 1,500 Feet

GROUNDWATER ELEVATION CONTOUR MAP SHALLOW OVERBURDEN – SEPTEMBER 2023

MALTA ROCKET FUEL AREA SITE
MATLA, NEW YORK

FIGURE 2

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

K:\GE-CEP.1087692\Standards\GIS\Malta Rocket Fuel\GW_contours\GroundwaterContours_Shallow_September2023.aprx\Ramboll_ANSI_B_Landscape

PROJECT: 169000XXXX | DATED: 12/29/2023 | DESIGNER: GARDNEME

Deep Groundwater Contour - September 2023
Well Locations
Surface Water Sample Locations
Enviromental Restriction Zone

0 500 1,000 Feet

GROUNDWATER ELEVATION CONTOUR MAP DEEP OVERBURDEN – SEPTEMBER 2023

MALTA ROCKET FUEL AREA SITE
MATLA, NEW YORK

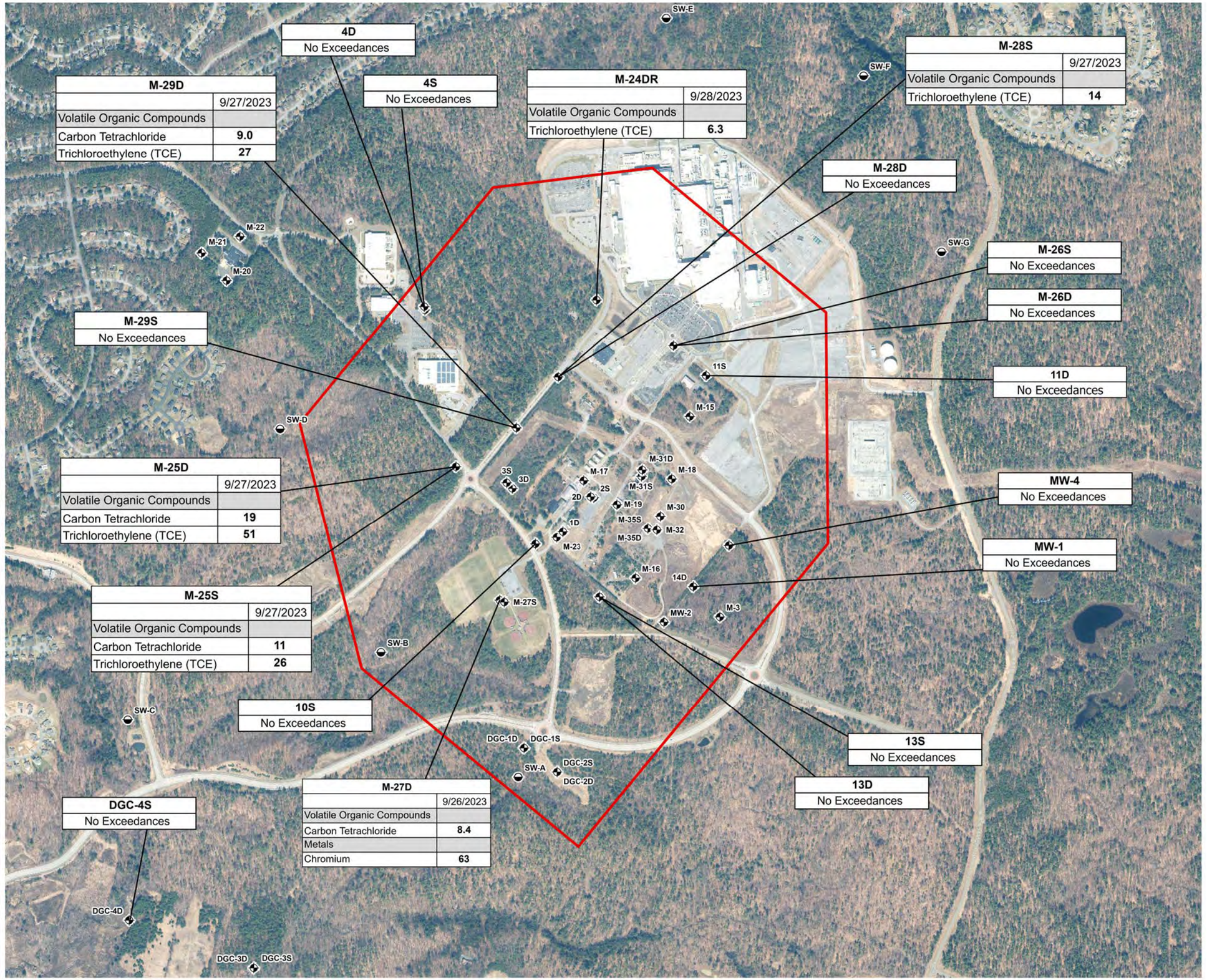
FIGURE 3

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

K:\GE-CEP.1087692\Standards\GIS\Malta Rocket Fuel\GW_contours\GroundwaterContours_Deep_September2023_rev2.aprx\Ramboll_ANSI_B_Landscape

PROJECT: 169000XXXX | DATED: 1/8/2024 | DESIGNER: GARDNEME



Surface Water Sample Locations
Well Locations
1999 Enviromental Restriction Zone

	NYS GW CLASS GA
Volatile Organic Compounds	
Carbon Tetrachloride	5.00
Trichloroethylene (TCE)	5.00
Metals	
Chromium	50

Notes:

1. Regulatory criteria are 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations and Ambient Water Quality Standards and Guidance Values from New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1. Class GA Standards and Guidance Values, June 1998, with all current addendums.
2. Regulatory criteria and analytical parameters are in micrograms per liter (µg/L).
3. Only exceedances are shown.

0 500 1,000 Feet

EXCEEDANCES IN GROUNDWATER - 2023

MALTA ROCKET FUEL AREA SITE
MATLA, NEW YORK

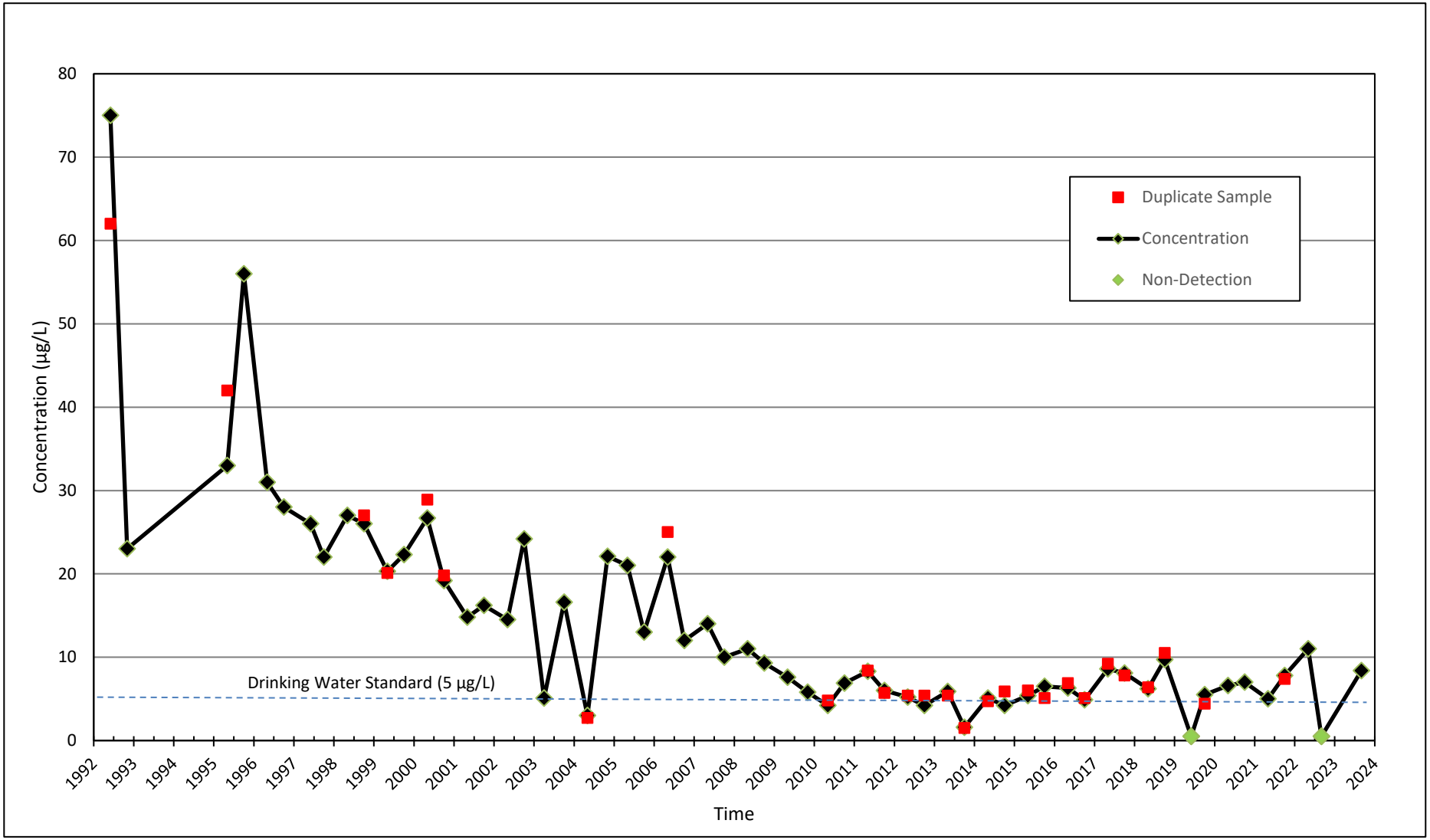
FIGURE 4

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

K:\GE-CEP 1087692\Standards\GIS\Malta Rocket Fuel\Databox Figures\2023\Exceedances_Databoxes_2023.aprx\RamboII_ANSI_B_Landscape
PROJECT: 1690000XXXX | DATED: 1/8/2024 | DESIGNER: GARDNEME

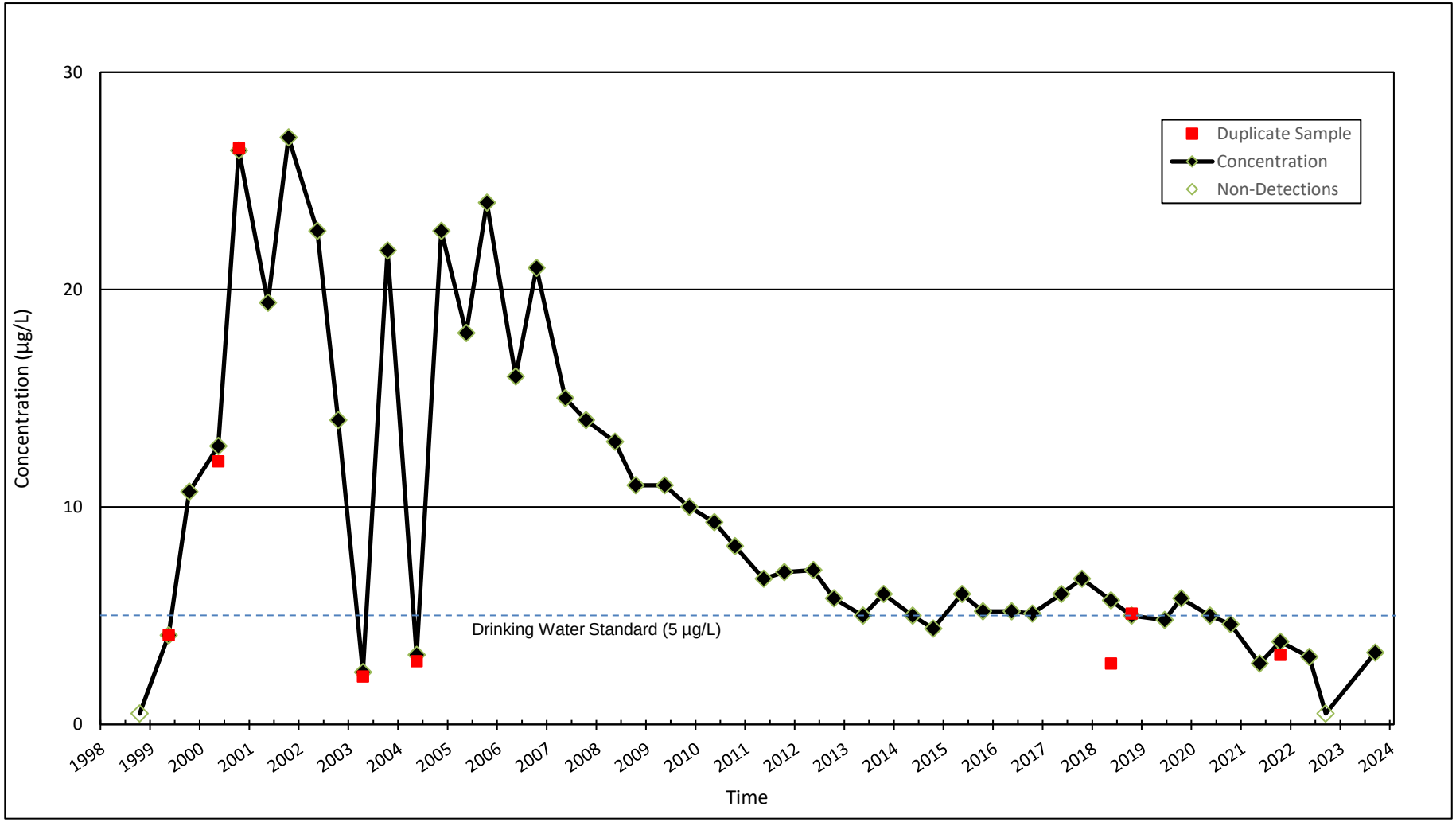
Figure 5
Carbon Tetrachloride Concentrations at Monitoring Well M-27D



Notes:

Results and drinking water standard are shown in micrograms per liter (µg/L).

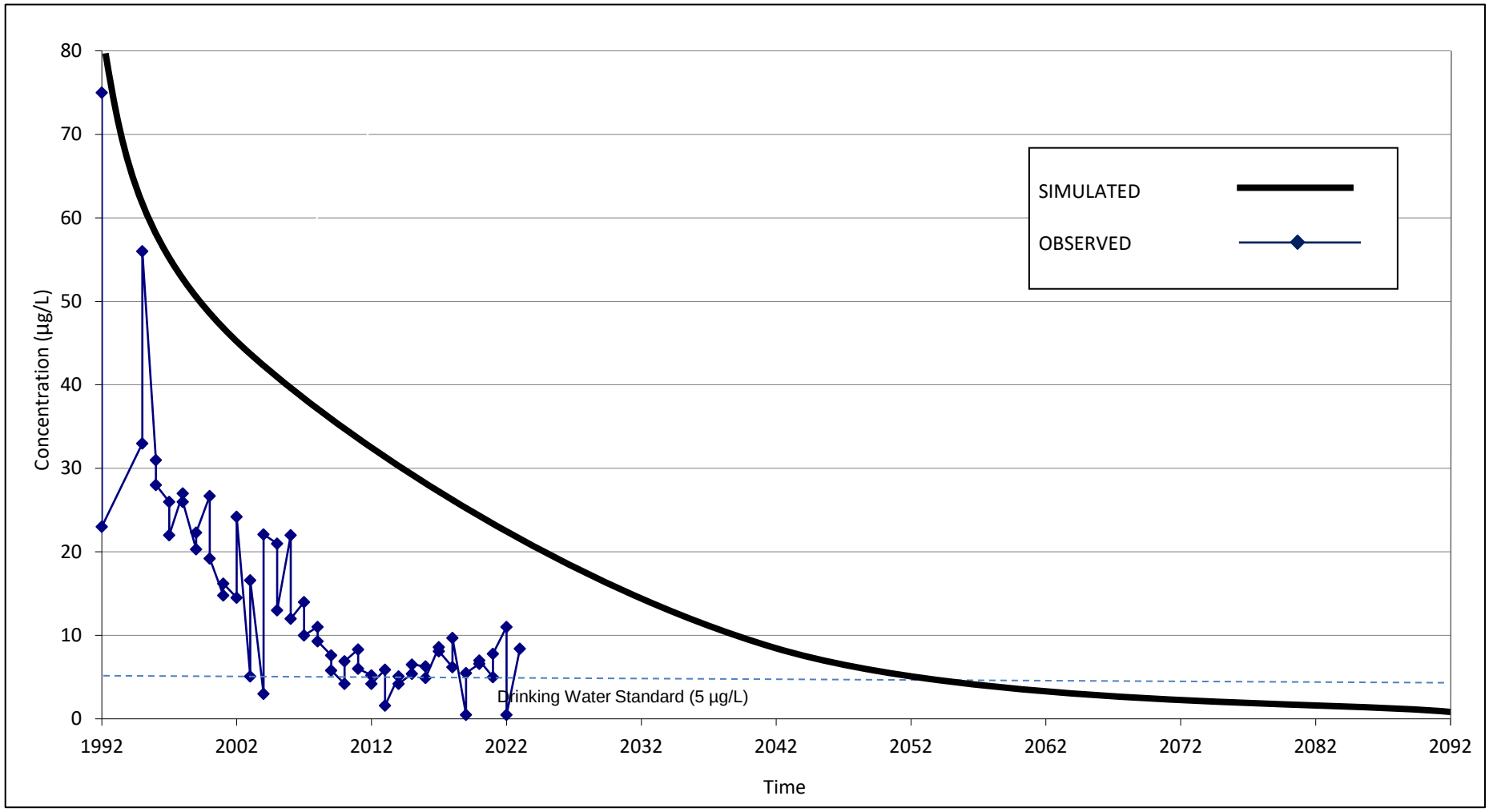
Figure 6
Trichloroethene Concentrations at Monitoring Well M-27D



Notes:

Results and drinking water standard are shown in micrograms per liter (µg/L).

Figure 7
Simulated Versus Observed Carbon Tetrachloride Concentrations at Monitoring Well M-27D

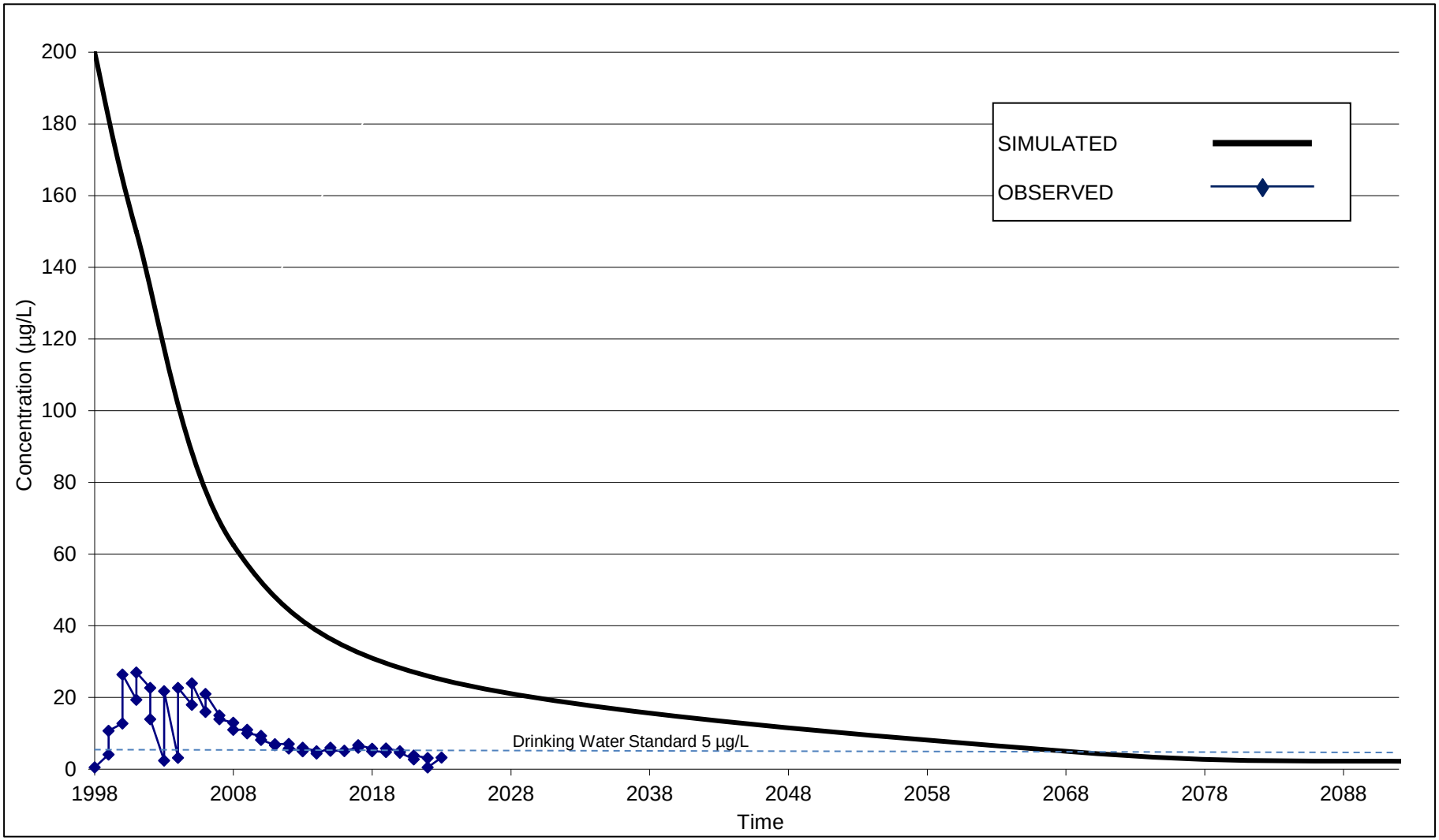


Notes:

Results and drinking water standard are shown in micrograms per liter (µg/L).

Simulated concentrations created by groundwater transport modeling, performed by ERM-Northeast, Inc. (1998).

Figure 8
Simulated Versus Observed Trichloroethene at Monitoring Well M-27D



Notes:

Results are shown in micrograms per liter (µg/L).
Simulated concentrations created by groundwater transport modeling, performed by ERM-Northeast, Inc. (1998).
Simulation is modeled using M-27S (data not shown).

Appendices

Appendix A

Groundwater Sampling Logs

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-27D
Northing:
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: TRA
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/26/23
Project #: 1940102620 | Pump/Controller ID#: FA04581 | Weather: Sunny 70s

Well information:

Installed Depth of Well*: 70 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 33.47 ft. bmp.
Length of Water Column (LWC): 36.53 ft
Well Diameter: 4.0 in.

Well Volume Multipliers:

BS — 1 in. = 0.041 gal/ft
X — 2 in. = 0.163 gal/ft
X — 4 in. = 0.653 gal/ft
— 6 in. = 1.469 gal/ft
— 8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 23.85 gal.
Pump Intake Depth*: 65.0 ft. bmp.

Start Purge Time: 1550

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time (Minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Other
			Select Units from Dropdown Menus						
0	33.47	15.5	7.52	0.882	252.1	6.63	18.6	250	
5	33.71	12.2	7.52	0.837	253.4	4.73	11.38	250	
10	33.73	11.9	7.54	0.856	239.5	4.25	9.34	250	
15	33.73	11.9	7.55	0.846	210.7	4.05	8.81	250	
20	33.73	11.9	7.54	0.840	177.1	4.08	7.89	250	
25	33.73	11.9	7.55	0.841	160.5	4.20	11.32	250	
30	33.73	11.9	7.55	0.831	124.6	4.18	10.65	250	
35	33.73	11.9	7.54	0.829	119.8	4.16	8.97	250	
40	33.73	11.9	7.54	0.829	116.5	4.14	9.21	250	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1630
DO Titrataion: — mg/L
Total volume of groundwater purged: 2.25 gal.

Final Observations: Color Clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-M-27D-0926 2023 **Date:** 9/26/23 **Time:** 1630

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins
125 ml	Polyethylene	1	No	None	Eurofins
250 ml	Polyethylene	1	No	HNO3	Eurofins

Notes: @ Rosamie

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-27D
Northing:
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: TRQ, BJS
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/25/23
Project #: 1940102620 | Pump/Controller ID#: FA Ø4581 | Weather: Overcast

Well information:

Installed Depth of Well*: 70 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 30.46 ft. bmp.
Length of Water Column (LWC): 39.54 ft.
Well Diameter: 4.0 in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft
~~2 in. = 0.163 gal/ft~~
X 4 in. = 0.653 gal/ft
6 in. = 1.469 gal/ft
8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 25.81 gal.
Pump Intake Depth*: 65.0 ft. bmp.

Start Purge Time: 1058

Initial Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Elapsed Time *Minutes*	Depth to Water *ft bmp*	Temperature *Celsius*	pH *SU*	Specific Conductivity *µS/cm*	ORP *mV*	Dissolved Oxygen *mg/L*	Turbidity *NTU*	Flow Rate *ml/min*	Other
			Select Units from Dropdown Menus						
0	30.46	13.8	7.03	1.574	165.7	5.71	16.2	150	
5	30.46	12.9	7.21	1.426	108.4	5.04	13.5	150	
10	30.46	12.4	7.49	0.992	96.2	3.96	58.6	150	
15	30.46	12.9	7.50	0.884	95.2	3.44	67.4	150	
20	30.46	13.2	7.51	0.847	99.3	3.20	56.7	150	
25	30.46	13.5	7.50	0.824	106.8	3.19	44.1	150	
30	30.46	13.3	7.49	0.806	112.3	3.07	35.6	150	
35	30.46	13.6	7.48	0.800	123.9	3.09	30.9	150	
40	30.46	13.2	7.48	0.802	130.9	3.17	33.6	150	
45	30.46	13.3	7.49	0.806	134.3	3.25	31.9	150	
50	30.46	13.5	7.48	0.809	138.1	3.29	30.1	150	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1148
DO Titrataion: — mg/L
Total volume of groundwater purged: 1.75 gal.

Final Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Analytical Sample ID: GW-M-27D-09252023 **Date:** 9/25/23 **Time:** 1200

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins
125 ml	Polyethylene	1	No	None	Eurofins
250 ml	Polyethylene	1	No	HNO3	Eurofins

Notes: Dedicated Pump, YSI FA Ø 5287, battery FA Ø 45 ØØ, LaMotte FA Ø 5111

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: 13D
Northing:
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: TRQ/BJS
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/25/23
Project #: 1940102620 | Pump/Controller ID#: FA 0545 81 | Weather: overcast

Well information:

Installed Depth of Well*: 70 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 37.38 ft. bmp.
Length of Water Column (LWC): 32.62 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 5.32 gal.
Pump Intake Depth*: 62.0 ft. bmp.

Start Purge Time: 1530

Initial Observations: *Color* Brown *Odor* None *Sheen/Free Product* No

Elapsed Time *Minutes*	Depth to Water *ft bmp*	Temperature *Celsius*	pH *SU*	Specific Conductivity *µS/cm*	ORP *mV*	Dissolved Oxygen *mg/L*	Turbidity *NTU*	Flow Rate *ml/min*	Other
				Select Units from Dropdown Menus					
0	37.38	10.5	7.93	0.290	121.8	3.99	~~88~~.9	150	
5	37.68	10.3	7.91	0.298	34.3	2.31	35.2	150	
10	37.76	10.6	7.98	0.301	-7.4	0.93	33.7	150	
15	37.75	10.5	7.98	0.315	-21.8	0.89	~~39~~ 35.9	150	
20	~~37.78~~	10.3	8.00	0.315	-~~19~~.6	0.78	~~48~~ 46.2	150	
25	37.75	10.4	8.04	0.308	-~~15~~.5	0.68	106.8	150	
30	37.75	10.3	8.05	0.306	-15.6	0.61	104.0	150	
35	37.75	10.3	8.05	0.308	+~~8~~.4	0.63	105.5	150	
40	37.75	10.4	8.02	0.310	+25.1	0.67	98.2	150	
45	37.75	10.4	8.01	0.313	31.4	0.66	95.6	150	
50	37.75	10.5	8.01	0.313	36.~~6~~	0.67	87.2	150	
55	37.75	10.3	8.00	0.315	40.6	0.72	~~86~~.8	150	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1625

DO Titrataion: — mg/L

Total volume of groundwater purged: 225 gal.

Final Observations: *Color* Brown-clear *Odor* None *Sheen/Free Product* None

Analytical Sample ID: GW-13D-09252023 **Date:** 9/25/23 **Time:** 1625

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	eurofins
40 ml	Clear VOA	3	No	HCl	eurofins
125 ml	Polyethylene	1	No	None	eurofins
250 ml	Polyethylene	1	No	HNO3	eurofins

Notes: Dedicated Pump

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-26S
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FA0 2072
Field Personnel: TRQ
Date: 9/26/23
Weather: Sunny ±60°

Well information:

Installed Depth of Well*: 42.85 ft. bmp.
Measured Depth of Well*: ~ ft. bmp.
Depth to Water*: 19.75 ft. bmp.
Length of Water Column (LWC): 23.10 ft.
Well Diameter: ~~40~~ 240 in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
X 4 in. = 0.653 gal/ft
6 in. = 1.469 gal/ft
8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 3.7 gal.
Pump Intake Depth*: 37.0 ft. bmp.

Start Purge Time: 0905

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
				Select Units from Dropdown Menus					
0	19.75	13.9	7.93	3.940	398.5	11.40	~~72.4~~ 79.4	350	
5	19.81	13.6	7.92	4.107	391.3	11.51	66.6	350	
10	19.81	13.6	7.87	4.151	387.3	11.16	59.8	350	
15	19.81	13.6	7.96	4.178	385.6	11.42	60.1	350	
20	19.81	13.7	7.96	4.200	383.1	11.41	53.9	350	
25	19.81	13.8	7.95	4.210	380.1	11.39	57.2	350	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 0930

DO Titrataion: — mg/L

Total volume of groundwater purged: 2.0 gal.

Final Observations: Color Clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-M-26S- 09262023 **Date:** 9/26/23 **Time:** 930

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear Glass	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-26D
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FA Ø 4581
Field Personnel: BJS
Date: 9/26/23
Weather: Sunny ± 60

Well information:

Installed Depth of Well*: 84.8 ft. bmp.
Measured Depth of Well*: ~ ft. bmp.
Depth to Water*: 27.56 ft. bmp.
Length of Water Column (LWC): 56.84 ft.
Well Diameter: 4.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
___ 2 in. = 0.163 gal/ft
X 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 37.11 gal.
Pump Intake Depth*: 79.0 ft. bmp.

Start Purge Time: 900

Initial Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
			Select Units from Dropdown Menus						
0	27.56	15.6	9.79	0.026	154.5	9.81	22.7	150	
5	27.62	13.3	7.74	0.371	154.7	4.85	18.0	150	
10	27.62	13.1	7.80	0.356	145.2	3.31	10.0	150	
15	27.62	13.0	7.87	0.354	128.8	3.03	11.06	150	
20	27.62	13.0	7.93	0.354	97.4	2.65	10.3	150	
25	27.62	13.0	7.96	0.355	84.7	2.53	9.8	150	
30	27.62	13.0	7.97	0.355	73.9	2.37	11.60	150	
35	27.62	12.9	7.98	0.355	66.3	2.24	11.31	150	
40	27.62	13.0	7.98	0.355	64.2	2.19	10.91	150	
45	27.62	13.0	7.98	0.355	60.6	2.21	10.84	150	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 945

DO Titrataion: ___ mg/L

Total volume of groundwater purged: 1.5 gal.

Final Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Analytical Sample ID: GW-M-26D-09262023 **Date:** 9/26/23 **Time:** 950

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes: Lamotte FA Ø 5111, YSI FA Ø 2111, Battery FA Ø 5572, Heron FA Ø 5744
DUP-2-09262023 Collected

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: 11D
Northing: 0
Easting: 0

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FAØ 4581
Field Personnel: BJS/TRQ
Date: 9/26/23
Weather: Sunny ±65

Well information:

Installed Depth of Well*: 75 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 30.31 ft. bmp.
Length of Water Column (LWC): ~~30.31~~ 44.69 ft
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: Top of ~~Well~~ steel Casing
MP Notes:
Well Volume: 7.2 gal.
Pump Intake Depth*: 67.0 ft. bmp.

Start Purge Time: 1050

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
			Select Units from Dropdown Menus						
0	30.31	13.7	7.38	0.40	375.0	8.54	4.99	325	
5	30.41	10.2	7.26	1.28	375.2	6.66	2.45	325	
10	30.43	10.1	7.29	1.28	366.3	6.52	2.55	325	
15	30.44	10.0	7.33	1.33	250.9	6.36	2.21	325	
20	30.44	10.1	7.35	1.35	125.1	6.48	1.62	325	
25	30.44	10.0	7.36	1.36	87.5	6.36	1.85	325	
30	30.44	10.0	7.36	1.37	81.4	6.43	1.71	325	
35	30.44	10.0	7.36	1.37	80.2	6.39	1.66	325	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1125

DO Titrataion: — mg/L

Total volume of groundwater purged: 2.5 gal.

Final Observations: Color Clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-11D-092623 **Date:** 9/26/23 **Time:** 1130

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes: QSI FAØ2111, Lumotte FAØ5111, Heron FAØ5744

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: 10S
Northing:
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: TRQ/BJS
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/26/23
Project #: 1940102620 | Pump/Controller ID#: FA Ø 4581 | Weather: Sunny ± 65

Well information:

Installed Depth of Well*: 46.55 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 34.54 ft. bmp.
Length of Water Column (LWC): 12.01 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 1.95 gal.
Pump Intake Depth*: 35.0 ft. bmp.

Start Purge Time: 1235

Initial Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
				Select Units from Dropdown Menus					
0	34.54	18.1	7.83	1.10	106.7	10.06	8.64	200	
5	34.56	11.8	6.88	1.06	32.9	9.84	3.04	200	
10	34.56	11.3	6.95	1.05	4.7	9.37	1.14	200	
15	34.56	11.2	6.96	1.07	-14.8	8.95	1.44	200	
20	34.56	11.1	6.96	1.09	-31.6	8.62	0.80	200	
25	34.56	11.1	6.95	1.10	-40.7	9.41	0.96	200	
30	34.56	11.1	6.96	1.11	-47.6	9.42	0.78	200	
35	34.56	11.1	6.96	1.11	-52.5	9.41	0.93	200	
40	34.56	11.1	6.96	1.12	-55.4	9.38	0.53	200	
45	34.56	11.0	6.95	1.11	-58.4	9.37	0.46	200	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1320
DO Titrataion: — mg/L
Total volume of groundwater purged: 2.0 gal.

Final Observations: *Color* Clear *Odor* Yes *Sheen/Free Product* None

Analytical Sample ID: GW-10S-0926 2023 **Date:** 9/26/23 **Time:** 1325

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes: YS=FA Ø 2111, La Motte FA Ø, Heron FA Ø MS/MSD Collected

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: 13S
Northing:
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: B.JS
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/26/23
Project #: 1940102620 | Pump/Controller ID#: FAP 4581 | Weather: Sunny, low 70s

Well information:

Installed Depth of Well*: 43 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 32.47 ft. bmp.
Length of Water Column (LWC): 10.53 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 1.7 gal.
Pump Intake Depth*: 35.0 ft. bmp.

Start Purge Time: 1420

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time (Minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Other
	Select Units from Dropdown Menus								
0	32.47	10.1	7.51	0.425	153.1	11.09	4.56	375	
5	32.55	9.8	7.51	0.352	94.6	10.35	4.62	375	
10	32.57	9.8	7.58	0.328	87.4	10.33	4.75	375	
15	32.57	9.9	7.64	0.294	93.5	10.39	4.53	375	
20	32.57	9.8	7.64	0.279	110.4	10.41	3.79	375	
25	32.57	9.8	7.64	0.269	102.5	10.37	3.91	375	
30	32.57	9.8	7.66	0.265	84.2	10.34	2.71	375	
35	32.57	9.8	7.67	0.264	89.9	10.37	2.88	375	
40	32.57	9.8	7.67	0.263	88.4	10.39	2.76	375	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1500
Total volume of groundwater purged: 3.25 gal.
DO Titrataion: ~ mg/L

Final Observations: Color Clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-13S-09262023 **Date:** 9/26/2023 **Time:** 1505

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes: Decontaminated Pump

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: 4D
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FA02072
Field Personnel: TRQ
Date: 9/28/2023
Weather: Overcast, 50s

Well information:

Installed Depth of Well*: 65.1 ft. bmp.
Measured Depth of Well*: ~ ft. bmp.
Depth to Water*: 39.40 ft. bmp.
Length of Water Column (LWC): 25.70 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 4.20 gal.
Pump Intake Depth*: 62.6 ft. bmp.

Start Purge Time: 0815

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
			Select Units from Dropdown Menus						
0	39.40	9.4	8.50	0.2[illegible]	-181.1	12.20	1.18	275	
5	39.42	9.1	8.27	0.211	-191.8	11.23	4.32	275	
10	39.43	9.1	8.29	0.211	-233.0	10.94	2.91	275	
15	39.43	9.2	8.09	0.320	-210.1	10.73	3.00	275	
20	39.43	9.1	8.05	0.339	-189.3	10.12	2.64	275	
25	39.43	9.1	7.99	0.345	-173.4	9.79	2.15	275	
30	39.43	9.1	7.98	0.343	-166.1	9.35	2.31	275	
35	39.43	9.1	7.99	0.347	-162.7	9.15	2.22	275	
40	39.43	9.1	8.00	0.348	-160.3	9.08	1.96	275	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 0855
Total volume of groundwater purged: 2.4 gal.
DO Titrataion: ~ mg/L

Final Observations: Color clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-4D-09282023 **Date:** 9/28/2023 **Time:** 0855

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: 4S
Northing:
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: BJS
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/28/23
Project #: 1940102620 | Pump/Controller ID#: FA0458 | Weather: overcast ± 55

Well information:

Installed Depth of Well*: 52.25 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 34.49 ft. bmp.
Length of Water Column (LWC): 12.76 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 2.0 gal.
Pump Intake Depth*: 39.5 ft. bmp.

Start Purge Time: 845

Initial Observations: *Color* light brown *Odor* none *Sheen/Free Product* none

Elapsed Time *Minutes*	Depth to Water *ft bmp*	Temperature *Celsius*	pH *SU*	Specific Conductivity *µS/cm*	ORP *mV*	Dissolved Oxygen *mg/L*	Turbidity *NTU*	Flow Rate *ml/min*	Other
				Select Units from Dropdown Menus					
0	34.49	10.6	7.97	0.4088	297.4	12.02	82.5	175	
5	39.50	9.8	7.57	0.4028	268.8	10.57	66.4	175	
10	39.50	9.6	7.54	0.4004	279.1	10.48	57.9	175	
15	39.50	9.6	7.49	0.3993	288.2	10.46	44.0	175	
20	39.50	9.5	7.51	0.3975	294.1	10.41	42.8	175	
25	39.50	9.5	7.51	0.3969	299.2	10.38	40.1	175	
30	39.50	9.5	7.52	0.3975	304.2	10.36	41.5	175	
35	39.50	9.5	7.52	0.3976	307.1	10.35	40.8	175	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 850
DO Titrataion: — mg/L
Total volume of groundwater purged: 1.25 gal.

Final Observations: *Color* light brown *Odor* none *Sheen/Free Product* none

Analytical Sample ID: GW-4S-0428 2023 **Date:** 9/28/23 **Time:** 850

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCL	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-25D
Northing: ~~4/27/23~~
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: TRQ
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/27/23
Project #: 1940102620 | Pump/Controller ID#: FAB 2072 | Weather: Sunny ±65

Well information:

Installed Depth of Well*: 64.4 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 30.08 ft. bmp.
Length of Water Column (LWC): 34.32 ft.
Well Diameter: 4.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
___ 2 in. = 0.163 gal/ft
X 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 22.4 gal.
Pump Intake Depth*: 57.0 ft. bmp.

Start Purge Time: 1450

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time (Minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Other
	Select Units from Dropdown Menus								
0	30.08	10.4	8.06	0.591	77.0	5.90	2.39	~~375~~	
5	30.12	10.2	7.90	0.612	45.6	5.25	3.46	375	
10	30.13	10.3	7.85	0.614	36.9	4.97	4.77	375	
15	30.13	10.3	7.85	0.614	34.7	5.06	3.92	375	
20	30.13	10.3	7.86	0.615	33.2	4.97	5.47	375	
25	30.13	10.3	7.84	0.613	30.4	4.94	4.68	375	
30	30.13	10.3	7.84	0.613	27.9	4.96	5.10	375	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1520
DO Titrataion: — mg/L
Total volume of groundwater purged: 2.5 gal.

Final Observations: Color Clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-M-25D-09272023 **Date:** 9/27/2023 **Time:** 1526

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-25S
Northing:
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: BJS
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/27/23
Project #: 1940102620 | Pump/Controller ID#: FA0458l | Weather: Sunny ~65

Well information:

Installed Depth of Well*: 39 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 27.62 ft. bmp.
Length of Water Column (LWC): 11.38 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
4 in. = 0.653 gal/ft
6 in. = 1.469 gal/ft
8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 1.85 gal.
Pump Intake Depth*: 33.0 ft. bmp.

Start Purge Time: 1445

Initial Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Elapsed Time (Minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Other
			Select Units from Dropdown Menus						
0	27.62	11.4	7.47	0.938	297.8	5.32	35.7	225	
5	27.66	11.2	7.46	0.942	294.5	4.92	16.4	225	
10	27.66	11.1	7.46	0.961	285.7	4.67	10.52	225	
15	27.66	11.0	7.46	0.959	264.1	4.65	8.66	225	
20	27.66	11.0	7.46	0.961	260.1	4.59	9.69	225	
25	27.66	11.0	7.45	0.965	252.2	4.69	8.13	225	
30	27.66	10.9	7.46	0.964	248.9	4.66	7.26	225	
35	27.66	10.9	7.45	0.965	246.8	4.64	6.73	225	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1520
DO Titrataion: — mg/L
Total volume of groundwater purged: 1.75 gal.

Final Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Analytical Sample ID: GW-M-25S-09272023 **Date:** 1520 9/27/23 **Time:** 1520

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-28S
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FA04581
Field Personnel: TRR
Date: 9/27/2023
Weather: Sunny, low 70s

Well information:

Installed Depth of Well*: 62 ft. bmp.
Measured Depth of Well*: ~ ft. bmp.
Depth to Water*: 50.46 ft. bmp.
Length of Water Column (LWC): 11.60 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 1.90 gal.
Pump Intake Depth*: 57.0 ft. bmp.

Start Purge Time: 1320

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time (Minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Other
		Select Units from Dropdown Menus							
0	50.46	12.1	7.89	0.494	131.8	2.54	13.6	200	
5	50.48	11.5	7.85	0.486	127.2	1.49	17.6	200	
10	50.48	11.3	7.65	0.509	119.5	4.87	19.9	200	
15	50.49	11.2	7.47	0.545	116.4	7.45	24.4	200	
20	50.49	11.2	7.45	0.585	111.2	8.55	19.6	200	
25	50.49	11.2	7.45	0.603	102.4	8.74	22.3	200	
30	50.49	11.2	7.45	0.620	90.6	9.01	12.3	200	
35	50.49	11.2	7.46	0.643	79.7	9.10	8.52	200	
40	50.49	11.2	7.46	0.644	75.8	9.12	9.11	200	
45	50.49	11.3	7.45	0.647	73.2	9.15	7.68	200	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1405
Total volume of groundwater purged: 2.0 gal.
DO Titrataion: ~ mg/L

Final Observations: Color Clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-M-28S-09272023 **Date:** 9/27/23 **Time:** 1405

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-28D
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FAØ2072
Field Personnel: BJS
Date: 9/27/23
Weather: Sunny 65

Well information:

Installed Depth of Well*: 85.3 ft. bmp.
Measured Depth of Well*: ~ ft. bmp.
Depth to Water*: 51.03 ft. bmp.
Length of Water Column (LWC): 34.27 ft.
Well Diameter: 4.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
___ 2 in. = 0.163 gal/ft
X 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 22.40 gal.
Pump Intake Depth*: 79.0 ft. bmp.

Start Purge Time: 1325

Initial Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
				Select Units from Dropdown Menus					
0	51.03	13.5	7.36	0.563	298.2	9.07	2.04	295	
5	51.09	11.7	7.34	0.563	309.1	8.33	1.46	295	
15	51.04	11.3	7.35	0.562	314.9	8.65	1.96	295	
20	51.16	10.4	7.38	0.563	317.3	8.77	2.45	295	
25	51.16	10.4	7.41	0.562	320.9	8.71	1.84	295	
30	51.16	11.0	7.38	0.563	325.3	8.77	1.12	295	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1355
Total volume of groundwater purged: 1.75 gal.
DO Titrataion: ~ mg/L

Final Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Analytical Sample ID: GW-M-28D- 09272023 **Date:** 9/27/23 **Time:** 1355

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes: YSI FAØ5287, Lamotte FAØ3811, Heron FAØ5494

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-29D
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FAP 4581
Field Personnel: TRH
Date: 9/27/23
Weather: SUNNY ~65

Well information:

Installed Depth of Well*: 84 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 44.94 ft. bmp.
Length of Water Column (LWC): 39.06 ft.
Well Diameter: 4.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
___ 2 in. = 0.163 gal/ft
X 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 25.50 gal.
Pump Intake Depth*: 79.0 ft. bmp.

Start Purge Time: 1210

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
			Select Units from Dropdown Menus						
0	44.94	15.6	7.57	0.851	138.9	7.55	1.66	225	
5	44.96	14.3	7.34	0.92	137.2	8.15	0.92	225	
10	44.96	12.6	7.43	0.91	135.2	7.78	1.24	225	
15	44.96	12.0	7.47	0.93	135.1	7.67	1.89	225	
20	44.97	11.8	7.62	0.95	133.7	7.62	2.26	225	
25	44.97	11.7	7.59	0.96	130.0	7.70	2.51	225	
30	44.97	11.6	7.60	0.97	128.7	7.72	3.17	225	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1240
Total volume of groundwater purged: 1.5 gal.
DO Titrataion: — mg/L

Final Observations: Color Clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-M-29D-09272023 **Date:** 9/27/23 **Time:** 1240

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-29S
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FA02872
Field Personnel: BJS
Date: 9/28/23
Weather: Sunny ± 65

Well information:

Installed Depth of Well*: 53.1 ft. bmp.
Measured Depth of Well*: ~ ft. bmp.
Depth to Water*: 42.70 ft. bmp.
Length of Water Column (LWC): 10.40 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 1.69 gal.
Pump Intake Depth*: 47.0 ft. bmp.

Start Purge Time: 12 15

Initial Observations: Color Clear Odor None Sheen/Free Product None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
	Select Units from Dropdown Menus								
Ø	~~42.8~~	12.8	7.83	0.3486	128.6	10.98	15.66		
5	~~42.3~~	12.3	7.14	0.3417	327.3	10.32	12.49		
10	42.70	11.1	7.53	0.3510	331.4	9.75	11.97		
15	42.70	10.9	7.65	0.3540	333.9	9.71	10.86		
20	42.70	10.8	7.65	0.3547	3358	9.69	11.33		
25	42.70	10.7	7.66	0.3554	3370	9.70	10.23		
30	42.70	10.7	7.66	0.3551	3373	9.68	11.12		
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 12 45
DO Titrataion: ~ mg/L
Total volume of groundwater purged: 1.0 gal.

Final Observations: Color Clear Odor None Sheen/Free Product None

Analytical Sample ID: GW-M-29S-09272023 **Date:** 9/27/23 **Time:** 12 45

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes: YSI, Lamotte FA03811, FA05744

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: MW-4
Northing:
Easting:

Site Name: Malta Rocket Fuel Site | Sampling Method: Bladder Pump | Field Personnel: BJS/TRQ
Site Location: Malta, NY | Equipment Used: Bladder Pump | Date: 9/27/23
Project #: 1940102620 | Pump/Controller ID#: FA82072 | Weather: Sun I 60

Well information:

Installed Depth of Well*: 40.8 ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 27.66 ft. bmp.
Length of Water Column (LWC): 13.14 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 2.15 gal.
Pump Intake Depth*: 34.5 ft. bmp.

Start Purge Time: 1035

Initial Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Elapsed Time (Minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Other
			Select Units from Dropdown Menus						
0	27.66	10.4	8.22	0.153	116.0	11.08	3.49	275	
5	27.66	9.2	8.31	0.161	117.4	11.13	2.26	275	
10	27.66	8.9	8.28	0.163	118.3	11.10	2.10	275	
15	27.66	8.9	8.22	0.159	118.9	11.13	2.29	275	
20	27.66	8.9	8.24	0.154	116.8	11.11	1.95	275	
25	27.66	8.9	8.25	0.153	115.6	11.13	1.00	275	
30	27.66	8.9	8.26	0.156	114.6	11.13	1.17	275	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1105
Total volume of groundwater purged: 1.75 gal.
DO Titrataion: — mg/L

Final Observations: *Color* clear *Odor* None *Sheen/Free Product* None

Analytical Sample ID: GW-MW-4- 09272023 **Date:** 9/27/23 **Time:** 1105

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: MW-1
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FAV2072
Field Personnel: TRQ/BJS
Date: 9/27/23
Weather: fog/sun I 60

Well information:

Installed Depth of Well*: 55.55 ft. bmp.
Measured Depth of Well*: ~ ft. bmp.
Depth to Water*: 42.52 ft. bmp.
Length of Water Column (LWC): 13.03 ft.
Well Diameter: 2.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
X 2 in. = 0.163 gal/ft
___ 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: Top of Well Casing
MP Notes:
Well Volume: 2.12 gal.
Pump Intake Depth*: 50.0 ft. bmp.

Start Purge Time: 925

Initial Observations: Color clear Odor none Sheen/Free Product none

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
				Select Units from Dropdown Menus					
0	42.52	10.4	8.24	~~10.26~~	7 162.1	11.24	23.3	200	
5	42.53	9.6	8.07	0.261	156.5	10.89	10.7	200	
10	42.53	9.5	7.47	0.262	152.5	10.81	11.9	200	
15	42.53	9.4	7.82	0.261	153.3	10.62	10.2	200	
20	42.53	9.4	7.82	0.261	149.5	10.53	9.8	200	
25	42.53	9.4	7.86	0.261	142.6	10.53	8.8	200	
30	42.53	9.4	7.84	0.261	140.8	10.52	9.6	200	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 955

DO Titrataion: ~ mg/L

Total volume of groundwater purged: 1.25 gal.

Final Observations: Color clear Odor none Sheen/Free Product none

Analytical Sample ID: GW-MW-1- 0927 2023 **Date:** 9/27/23 **Time:** 955

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: DGC-4S
Northing:
Easting:

Site Name:	Malta Rocket Fuel Site	Sampling Method:	Bladder Pump	Field Personnel:	TRQ
Site Location:	Malta, NY	Equipment Used:	Bladder Pump	Date:	4/28/23
Project #:	1940102620	Pump/Controller ID#:	SAV 24/72	Weather:	SUNNY ± 65

Well information:

Installed Depth of Well*:	30	ft. bmp.
Measured Depth of Well*:	—	ft. bmp.
Depth to Water*:	4.84	ft. bmp.
Length of Water Column (LWC):	20.11	ft.
Well Diameter:	2.0	in.

Well Volume Multipliers:

	1 in. = 0.041 gal/ft
X	2 in. = 0.163 gal/ft
	4 in. = 0.653 gal/ft
	6 in. = 1.469 gal/ft
	8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: 3.25 gal.
Pump Intake Depth*: 23.3 ft. bmp.

Start Purge Time: 1005

Initial Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Elapsed Time (Minutes)	Depth to Water (ft bmp)	Temperature (Celsius)	pH (SU)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Other
				Select Units from Dropdown Menus					
0	4.84	11.7	7.44	0.99	25.4	10.30	5.90	350	
5	4.91	11.0	7.44	1.02	2.6	10.23	3.94	350	
10	4.92	11.0	7.43	1.02	-14.7	2.7	2.68	350	
15	4.92	10.9	7.44	1.02	-34.8	2.4	2.51	350	
20	4.94	11.0	7.44	1.02	-61.6	0.19	4.47	350	
25	4.94	10.9	7.45	1.02	-84.3	0.18	4.15	350	
30	4.94	10.9	7.45	1.02	-77.0	0.20	3.99	350	
35	4.94	10.9	7.45	1.02	-75.1	0.22	3.66	350	
40	4.94	10.9	7.46	1.02	-70.4	0.23	4.12	350	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 1045
DO Titrataion: — mg/L
Total volume of groundwater purged: 3 gal.

Final Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Analytical Sample ID: GW-DGC-4S- **Date:** **Time:**

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

RAMBOLL

Low Flow Groundwater Sampling Log

Well ID: M-24DR
Northing:
Easting:

Site Name: Malta Rocket Fuel Site
Site Location: Malta, NY
Project #: 1940102620
Sampling Method: Bladder Pump
Equipment Used: Bladder Pump
Pump/Controller ID#: FAP 4581
Field Personnel: BJS
Date: 9/28/23
Weather: Sunny ± 60

Well information:

Installed Depth of Well*: Unknown ft. bmp.
Measured Depth of Well*: — ft. bmp.
Depth to Water*: 37.01 ft. bmp.
Length of Water Column (LWC): ft.
Well Diameter: 4.0 in.

Well Volume Multipliers:

___ 1 in. = 0.041 gal/ft
___ 2 in. = 0.163 gal/ft
X 4 in. = 0.653 gal/ft
___ 6 in. = 1.469 gal/ft
___ 8 in. = 2.611 gal/ft

Measurement Point*: TOC
MP Notes:
Well Volume: gal.
Pump Intake Depth*: 63.0 ft. bmp.

Start Purge Time: ~~1020~~ 1015

Initial Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Celsius	pH SU	Specific Conductivity µS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other
				Select Units from Dropdown Menus					
0	37.01	14.01	8.77	2.866	311	8.84	11.8	200	
5	37.01	14.0	11.24	2.869	278.0	8.76	10.7	200	
10	37.01	13.3	11.92	3.563	141.4	8.35	10.2	200	
15	37.01	13.3	11.98	3.616	176.9	8.25	9.8	200	
20	37.01	13.3	10.50	2.905	186.3	6.97	12.6	200	
25	37.01	13.3	9.24	3.155	148.7	6.45	13.3	200	
30	37.01	13.3	8.75	3.276	212.0	6.17	13.8	200	
35	37.01	13.3	8.60	3.310	218.0	6.11	12.9	200	
40	37.01	13.5	8.55	3.310	224.8	6.08	11.2	200	
45	37.01	13.5	8.53	3.305	226.7	6.04	11.8	200	
Stabilization	Δ ≤ 0.3'	± 3%	± 0.1	± 3%	± 10 mV	± 10%	± 10%	200 ≤ X ≤ 500	

End Purge Time: 11:00
Total volume of groundwater purged: 2.0 gal.
DO Titration: — mg/L

Final Observations: *Color* Clear *Odor* None *Sheen/Free Product* None

Analytical Sample ID: GW-M-24DR- 09282023 **Date:** 9/28/23 **Time:** 1100

Container Size	Container Type	Qty Collected	Field Filtered?	Preservative	Laboratory
40 ml	Clear VOA	3	No	HCl	Eurofins
40 ml	Clear VOA	3	No	HCl	Eurofins

Notes:

Appendix B

Groundwater Laboratory Data and Validation Reports

RAMBOLL

ENVIRONMENT
& HEALTH

TECHNICAL NOTE

Project name	**Malta Rocket Fuel Area Monitoring**
Project no.	**1940102620**
Client	**General Electric**
To	**File**
From	**Vic Maietta**
Copy to	**Paul D'Annibale, PG**

Date January 3, 2024

Ramboll
94 New Karner Road
Suite 106
Albany, NY 12203
USA

T 518-724-7272
F 315-463-7554
https://ramboll.com

1 Sampling Event Details

Sampling Event: 2023 Annual Sampling

Sample Dates: September 25-28, 2023

Samples Collected: 19 groundwaters, 6 surface waters, 2 field duplicates, 2 MS/MSDs, 4 equipment blanks & 4 trip blanks

Analyses Requested: TCL VOCs by 8260C, Ethane, & total and hex-Cr by 6010C and 7196A

Analytical Laboratory: Eurofins Environment Testing in Amherst, NY

Sample Delivery Group: 480-213061-1

Sampling Event Completeness Check: ✓

2 COC/Sample Management Compliance

Samples Analyzed as Specified on COC: ✓

Samples Received in Good Condition: ✓ 4 coolers received at 2.0º C, 2.4º C, 3.2º C and 3.2º C.

Preservation Compliance: ✓ VOCs and dissolved gases preserved with HCl
Total chromium preserved with nitric acid
Hexavalent chromium unpreserved

VOCs

3 Analysis Details

Analytical Holding Times Met: ✓ 9/27/23, 9/29/23, & 10/2/23

TCLs and PQLs Checked and in Compliance: ✓

Sample Units as Requested: ✓

Blind Duplicate precision Checked: ✓

- SW-B and FD-1

Compound	SW-B	FD-1	RPD
	All compounds ND	All compounds ND	Not calculatable

- M-26D and Dup-2

Compound	M-26D	Dup-2	RPD
	All compounds ND	All compounds ND	Not calculatable

MS/MSDs Checked:

- SW-B
  - 2-Hexanone recovered above QC limits in MS and MSD and Bromoform recovered marginally above QC limits in MSD. RPDs for 2-Hexanone and Bromoform within QC limits.
  - 2-Hexanone and Bromoform ND in SW-B. No further qualification necessary based solely on MSD excursion. Percent recoveries in MS and LCS within QC limits.
- GW-10S
  - All compound % recoveries within quality control limits. ✓
  - 1,2-Dibromo-3-Chloropropane, 2-Butanone, 2-Hexanone, Acetone, Bromoform, Carbon disulfide, Dibromochloromethane, Methyl acetate RPDs exceeded laboratory quality control limits.
  - Compounds listed above are ND in GW-10S so no further qualification necessary.

Surrogates Checked: ✓

Trip/Equipment Blanks Checked:

- Trip Blanks all compounds non-detect.
- EB-1-09252023 Acetone and Chloroform detected at 4.5 J ug/L and 0.57 J ug/L, respectively.
  - Associated samples GW-13D, SW-B and FD-1 are ND for compounds. No additional qualification necessary.
- EB-2-09262023 2-Butanone, Acetone, and Chloroform detected at 1.9 J ug/L, 7.0 J ug/L, and 0.52 J ug/L, respectively.
  - Associated samples: GW-M-26S, GW-M-26D, GW-11D, DUP-2, GW-10S, GW-13S and GW-M-27D.
  - All compounds are non-detect in GW-M-26S, GW-M-26D, DUP-2, GW-10S and GW-13S. No additional qualification necessary.
  - Chloroform detected in GW-11D and GW-M-27D. Chloroform Action Level = 0.52 ug/L x 5 = 2.6.

- GW-11D Chloroform (0.50 J ug/L) is less than the practical quantitation limit and AL so is considered ND at the PQL (1.0 U ug/L) due to likelihood of contamination and is qualified w/U.
- GW-M-27D Chloroform (2.2 ug/L) is greater than the PQL and lower than the AL. Sampling location has a dedicated pump and is unlikely to have contamination carry-over during sampling. Due to the compound's historical presence in this well at low levels, the detection is unlikely true. No qualification necessary.
- Acetone ND in GW-M-11D and GW-M-27D. No further qualifications necessary.

- EB-3-09272023 2-Butanone, Acetone, and Chloroform detected at 1.7 J ug/L, 5.8 J ug/L, and 0.53 J ug/L, respectively.
  - Associated samples: SW-D, GW-M-28S, GW-M-29S, GW-MW-4, GW-M-29D, GW-M-25D, GW-M-25S, GW-M-1 and GW-M-28D.
  - SW-D, GW-M-28S, GW-M-29S, GW-MW-4, GW-M-29D, GW-M-1 and GW-M-28D are ND for these compounds. No additional qualification necessary.
  - Chloroform detected in GW-M-25D and GW-M-25S. Chloroform Action Level = 0.53 ug/L x 5 = 2.65.
  - GW-M-25D Chloroform (1.1 ug/L) and GW-M-25S Chloroform (0.59 J ug/L) are within historic norms for these locations and are likely true detections. No further qualification necessary.
  - GW-M-25D and GW-M-25S are ND for 2-Butanone and Acetone. No further qualifications necessary.
- EB-4-09282023 Acetone and Chloroform detected at 5.4 J ug/L and 0.58 J ug/L, respectively.
  - Associated samples: GW-4S, GW-4D, GW-M-24DR, GW-DGC-4S, SW-F, SW-A, SW-E and SW-G.
  - GW-4S, GW-4D, GW-DGC-4S, SW-F, SW-E and SW-G are ND for all compounds. No additional qualification necessary.
  - Chloroform detected in GW-M-24DR and SW-A. Chloroform Action Level = 0.58 ug/L x 5 = 2.9.
  - GW-M-24DR and SW-A Chloroform (0.61 J ug/L and 0.78 J ug/L, respectively) are less than the PQL and AL so are considered ND at the PQL (1.0 U ug/L) due to likelihood of contamination and are qualified w/U.
  - GW-M-24DR and SW-A are ND for Acetone. No additional qualification necessary.

Method Blanks Checked: ✓ no detections

LCSs Checked:

- LCS-9/26/23 (batch 685071) recovered marginally above quality control limits for 2-Hexanone
  - Associated samples: GW-13D, FD-1, EB-1 and TB-1.
  - 2-Hexanone ND in associated samples so no further qualification necessary.
- LCS-9/27/23 (batch 685139) ✓
- LCS-9/27/23 (batch 685187) ✓
- LCS-9/29/23 (batch 685418) Acetone recovered above quality control limits.
  - Associated samples: SW-D, GW-M-28S, GW-M-29S, GW-MW-4, GW-M-29D, GW-M-25D, GW-M-25S, GW-M-1, GW-M-28D, EB-3 and TB-3.
  - Acetone ND in SW-D, GW-M-28S, GW-M-29S, GW-MW-4, GW-M-29D, GW-M-25D, GW-M-25S, GW-M-1, GW-M-28D and TB-3 so no further qualification necessary.
  - Acetone detection in EB-3 (5.8 J ug/L) is already an estimated quantitation below the PQL. No further qualification necessary.
- LCS-10/2/23 (batch 685822) ✓

Case Narrative Checked:

- Per laboratory case narrative, the continuing calibration verification (CCV) associated with batch 480-685071 recovered above the upper control limit for 2-Hexanone.
    - Associated samples: GW-13D, FD-1, EB-1 and TB-1.
    - 2-Butanone is ND in associated samples. No further qualification necessary.
- Per laboratory case narrative, the CCV associated with batch 480-685418 recovered outside acceptance criteria, low biased, for Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analytes are detected.
    - Associated samples: SW-D, GW-M-28S, GW-M-29S, GW-MW-4, GW-M-29D, GW-M-25D, GW-M-25S, GW-M-1, GW-M-28D, EB-3 and TB-3.
    - Carbon disulfide ND in associated samples so are considered ND at an estimated PQL and qualified w/UJ.
- Per laboratory case narrative, the CCV associated with batch 480-685822 recovered above the upper control limit for 2-Hexanone, 2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK) and trans-1,3-Dichloropropene.
    - Associated samples: GW-4S, GW-4D, GW-M-24DR, GW-DGC-4S, SW-F, SW-A, SW-E, SW-G, EB-4 and TB-4.
    - These compounds ND in associated samples. No additional qualification necessary.

Ethane

4 Analysis Details

Extraction Holding Times Met: ✓ within 14 days

Analytical Holding Times Met: ✓ 9/27/23, 9/28/23, 9/29/23, & 10/4/23

TCLs and PQLs Checked and in Compliance: ✓

Sample Units as Requested: ✓

Blind Duplicate precision Checked: ✓

- SW-B and FD-1

Compound	SW-B	FD-1	RPD
Ethane	ND	ND	Not calculatable

- M-26D and Dup-2

Compound	M-26D	Dup-2	RPD
Ethane	ND	ND	Not calculatable

MS/MSDs Checked:

- SW-B
    - Percent recovery: ✓
    - RPD: ✓
- GW-10S

- Percent recovery: ✓
- RPD: ✓

Equipment Blanks Checked: ✓

Method Blanks Checked: ✓ no detections

LCS/LCSDs Checked:
- Percent recoveries: ✓
- RPDs: ✓

Case Narrative Checked: ✓

Total and Hexavalent Chromium

5 Analysis Details

Extraction Holding Times Met: ✓ 6 months except for Hex-Cr (24 hours)

Analytical Holding Times Met: ✓ Total Cr 10/8/23 & 10/9/23,
Hex-Cr 9/26/23 & 9/27/23,
Laboratory case narrative cites hold time (HT) exceedance for FD-1 and EB-1. No sample time provided so midnight (00:00) is assumed, however not practical estimate of sample collection time. FD-1 collected with parent sample at 13:00 on 9/25/23. EB-1 collection time per field technician was after equipment decontamination and prior to collection of the first field sample; putting collection window between 9:00 and 12:00 9/25/23. FD-1 and EB-1 analyzed 9/26/23 at 12:24. FD-1 hexavalent chromium does not warrant further qualification as it does not exceed HT. EB-1 hexavalent chromium was analyzed potentially outside collection window by 24 minutes. The excursion is marginal and does not warrant additional qualification.

TCLs and PQLs Checked and in Compliance: ✓

Sample Units as Requested: ✓

Blind Duplicate precision Checked: ✓
- SW-B and FD-1 RPDs < 50% ✓

Compound	SW-B	FD-1	RPD
Total Chromium	0.0014 J mg/L	0.0015 J mg/L	6.9 %
Hex-Cr	ND	ND	Not calculatable

MS/MSDs Checked:

- SW-B – Total Cr
  - Percent recovery: ✓
  - RPD: ✓
- SW-B – Hex-Cr
  - Percent recovery: ✓
  - RPD: ✓

- GW-M-27D – Hex-Cr
    - Percent recovery: ✓
    - RPD: ✓

Equipment Blank Checked:

- EB-1 (9/25/23): ✓ No detection

Method Blanks Checked: ✓ no detections

LCSs Checked: % recoveries ✓

Case Narrative Checked: ✓

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul D'Annibale
Ramboll Americas Engineering Solutions
94 New Karner Road
Suite 106
Albany NY 12203

Generated 10/13/2023 10:08 AM

JOB DESCRIPTION

Malta Rocket Fuel (MRFA)
SDG Number 480-213061-1

JOB NUMBER

480-213061-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

Eurofins Buffalo

Job Notes

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Job Narrative
480-213061-1

Receipt
The samples were received on 9/26/2023 11:00 AM, 9/27/2023 10:45 AM, 9/28/2023 10:30 AM and 9/29/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0º C, 2.4º C, 3.2º C and 3.2º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-685071 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: GW-13D-09252023 (480-213061-1), FD-1-09252023 (480-213061-3), EB-1-09252023 (480-213061-4) and TB-1-09252023 (480-213061-5).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-685071 recovered outside control limits for the following analyte: 2-Hexanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: GW-13D-09252023 (480-213061-1), FD-1-09252023 (480-213061-3), EB-1-09252023 (480-213061-4) and TB-1-09252023 (480-213061-5).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-685139 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are impacted: SW-B-09252023-MS (480-213061-2[MS]) and SW-B-09252023-MSD (480-213061-2[MSD]).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-685418 recovered outside acceptance criteria, low biased, for Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte, the data are reported. The associated samples are impacted: SW-D-09272023 (480-213168-1), GW-M-28S-09272023 (480-213168-2), GW-M-29S-09272023 (480-213168-3), GW-MW-4-09272023 (480-213168-4), GW-M-29D-09272023 (480-213168-5), GW-M-25D-09272023 (480-213168-6), GW-M-25S-09272023 (480-213168-7), GW-M-1-09272023 (480-213168-8), GW-M-28D-0929023 (480-213168-9), EB-3-09272023 (480-213168-10) and TB-3-09272023 (480-213168-11).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-685418 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS and was not detected above the reporting limit in the associated samples; therefore, the data have been reported. The associated samples are impacted: SW-D-09272023 (480-213168-1), GW-M-28S-09272023 (480-213168-2), GW-M-29S-09272023 (480-213168-3), GW-MW-4-09272023 (480-213168-4), GW-M-29D-09272023 (480-213168-5), GW-M-25D-09272023 (480-213168-6), GW-M-25S-09272023 (480-213168-7), GW-M-1-09272023 (480-213168-8), GW-M-28D-0929023 (480-213168-9), EB-3-09272023 (480-213168-10) and TB-3-09272023 (480-213168-11).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-685822 recovered above the upper control limit for 2-Hexanone, 2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK) and trans-1,3-Dichloropropene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: GW-4S-09282023 (480-213196-1), GW-4D-09282023 (480-213196-2), GW-M-24DR-09282023 (480-213196-3), GW-DGC-4S-09282023 (480-213196-4), SW-F-09282023 (480-213196-5), SW-A-09282023 (480-213196-6), SW-E-09282023 (480-213196-7), SW-G-09282023 (480-213196-8), EB-4-09282023 (480-213196-9) and TB-4-09282023 (480-213196-10).

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

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

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

General Chemistry
Method 7196A: The following samples were received outside of holding time: FD-1-09252023 (480-213061-3) and EB-1-09252023 (480-213061-4).

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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-213061-1	GW-13D-09252023	Water	09/25/23 16:25	09/26/23 11:00
480-213061-2	SW-B-09252023	Water	09/25/23 13:00	09/26/23 11:00
480-213061-3	FD-1-09252023	Water	09/25/23 00:00	09/26/23 11:00
480-213061-4	EB-1-09252023	Water	09/25/23 00:00	09/26/23 11:00
480-213061-5	TB-1-09252023	Water	09/25/23 15:25	09/26/23 11:00
480-213117-1	GW-M-26S-09262023	Water	09/26/23 09:30	09/27/23 10:45
480-213117-2	GW-M-26D-09262023	Water	09/26/23 09:50	09/27/23 10:45
480-213117-3	GW-11D-09262023	Water	09/26/23 11:30	09/27/23 10:45
480-213117-4	DUP-2-09262023	Water	09/26/23 00:00	09/27/23 10:45
480-213117-5	GW-10S-09262023	Water	09/26/23 13:25	09/27/23 10:45
480-213117-6	GW-13S-09262023	Water	09/26/23 15:05	09/27/23 10:45
480-213117-7	GW-M-27D-09262023	Water	09/26/23 16:30	09/27/23 10:45
480-213117-8	EB-2-09262023	Water	09/26/23 00:00	09/27/23 10:45
480-213117-9	TB-2-09262023	Water	09/26/23 16:45	09/27/23 10:45
480-213168-1	SW-D-09272023	Water	09/27/23 16:00	09/28/23 10:30
480-213168-2	GW-M-28S-09272023	Water	09/27/23 14:05	09/28/23 10:30
480-213168-3	GW-M-29S-09272023	Water	09/27/23 12:45	09/28/23 10:30
480-213168-4	GW-MW-4-09272023	Water	09/27/23 11:05	09/28/23 10:30
480-213168-5	GW-M-29D-09272023	Water	09/27/23 12:40	09/28/23 10:30
480-213168-6	GW-M-25D-09272023	Water	09/27/23 15:20	09/28/23 10:30
480-213168-7	GW-M-25S-09272023	Water	09/27/23 15:20	09/28/23 10:30
480-213168-8	GW-M-1-09272023	Water	09/27/23 09:55	09/28/23 10:30
480-213168-9	GW-M-28D-0929023	Water	09/27/23 13:55	09/28/23 10:30
480-213168-10	EB-3-09272023	Water	09/27/23 00:00	09/28/23 10:30
480-213168-11	TB-3-09272023	Water	09/27/23 16:45	09/28/23 10:30
480-213196-1	GW-4S-09282023	Water	09/28/23 08:50	09/29/23 10:30
480-213196-2	GW-4D-09282023	Water	09/28/23 08:55	09/29/23 10:30
480-213196-3	GW-M-24DR-09282023	Water	09/28/23 11:00	09/29/23 10:30
480-213196-4	GW-DGC-4S-09282023	Water	09/28/23 10:45	09/29/23 10:30
480-213196-5	SW-F-09282023	Water	09/28/23 12:50	09/29/23 10:30
480-213196-6	SW-A-09282023	Water	09/28/23 11:35	09/29/23 10:30
480-213196-7	SW-E-09282023	Water	09/28/23 12:30	09/29/23 10:30
480-213196-8	SW-G-09282023	Water	09/28/23 12:00	09/29/23 10:30
480-213196-9	EB-4-09282023	Water	09/28/23 00:00	09/29/23 10:30
480-213196-10	TB-4-09282023	Water	09/28/23 15:00	09/29/23 10:30

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-13D-09252023 — Lab Sample ID: 480-213061-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.61	J	1.0	0.27	ug/L	1		8260C	Total/NA
Chromium	0.0033	J	0.0040	0.0010	mg/L	1		6010C	Total/NA

Client Sample ID: SW-B-09252023 — Lab Sample ID: 480-213061-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0014	J	0.0040	0.0010	mg/L	1		6010C	Total/NA

Client Sample ID: FD-1-09252023 — Lab Sample ID: 480-213061-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0015	J	0.0040	0.0010	mg/L	1		6010C	Total/NA

Client Sample ID: EB-1-09252023 — Lab Sample ID: 480-213061-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.5	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	0.57	J	1.0	0.34	ug/L	1		8260C	Total/NA
Chromium	0.0013	J	0.0040	0.0010	mg/L	1		6010C	Total/NA

Client Sample ID: TB-1-09252023 — Lab Sample ID: 480-213061-5

No Detections.

Client Sample ID: GW-M-26S-09262023 — Lab Sample ID: 480-213117-1

No Detections.

Client Sample ID: GW-M-26D-09262023 — Lab Sample ID: 480-213117-2

No Detections.

Client Sample ID: GW-11D-09262023 — Lab Sample ID: 480-213117-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	4.7		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	0.50	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: DUP-2-09262023 — Lab Sample ID: 480-213117-4

No Detections.

Client Sample ID: GW-10S-09262023 — Lab Sample ID: 480-213117-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.43	J	1.0	0.27	ug/L	1		8260C	Total/NA
Trichloroethene	0.73	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: GW-13S-09262023 — Lab Sample ID: 480-213117-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	J	1.0	0.31	ug/L	1		8260C	Total/NA
Carbon tetrachloride	1.3		1.0	0.27	ug/L	1		8260C	Total/NA
Trichloroethene	1.0		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-27D-09262023 — Lab Sample ID: 480-213117-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.77	J	1.0	0.31	ug/L	1		8260C	Total/NA
Carbon tetrachloride	8.4		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	2.2		1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	3.3		1.0	0.46	ug/L	1		8260C	Total/NA
Chromium	0.063		0.0040	0.0010	mg/L	1		6010C	Total/NA
Chromium, hexavalent	0.0092	J	0.010	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: EB-2-09262023 — Lab Sample ID: 480-213117-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.9	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	7.0	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	0.52	J	1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: TB-2-09262023 — Lab Sample ID: 480-213117-9

No Detections.

Client Sample ID: SW-D-09272023 — Lab Sample ID: 480-213168-1

No Detections.

Client Sample ID: GW-M-28S-09272023 — Lab Sample ID: 480-213168-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	2.1		1.0	0.31	ug/L	1		8260C	Total/NA
Carbon tetrachloride	4.1		1.0	0.27	ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: GW-M-29S-09272023 — Lab Sample ID: 480-213168-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	2.2		1.0	0.27	ug/L	1		8260C	Total/NA
Trichloroethene	4.2		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: GW-MW-4-09272023 — Lab Sample ID: 480-213168-4

No Detections.

Client Sample ID: GW-M-29D-09272023 — Lab Sample ID: 480-213168-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3		1.0	0.31	ug/L	1		8260C	Total/NA
Carbon tetrachloride	9.0		1.0	0.27	ug/L	1		8260C	Total/NA
Trichloroethene	27		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: GW-M-25D-09272023 — Lab Sample ID: 480-213168-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.0	0.31	ug/L	1		8260C	Total/NA
Carbon tetrachloride	19		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	1.1		1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	51		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-25S-09272023 — Lab Sample ID: 480-213168-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.85	J	1.0	0.31	ug/L	1		8260C	Total/NA
Carbon tetrachloride	11		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	0.59	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	26		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: GW-M-1-09272023 — Lab Sample ID: 480-213168-8

No Detections.

Client Sample ID: GW-M-28D-0929023 — Lab Sample ID: 480-213168-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	1.6		1.0	0.27	ug/L	1		8260C	Total/NA
Trichloroethene	0.63	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: EB-3-09272023 — Lab Sample ID: 480-213168-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.7	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	5.8	J *+	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	0.53	J	1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: TB-3-09272023 — Lab Sample ID: 480-213168-11

No Detections.

Client Sample ID: GW-4S-09282023 — Lab Sample ID: 480-213196-1

No Detections.

Client Sample ID: GW-4D-09282023 — Lab Sample ID: 480-213196-2

No Detections.

Client Sample ID: GW-M-24DR-09282023 — Lab Sample ID: 480-213196-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	4.0		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	0.61	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	6.3		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: GW-DGC-4S-09282023 — Lab Sample ID: 480-213196-4

No Detections.

Client Sample ID: SW-F-09282023 — Lab Sample ID: 480-213196-5

No Detections.

Client Sample ID: SW-A-09282023 — Lab Sample ID: 480-213196-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.78	J	1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: SW-E-09282023 — Lab Sample ID: 480-213196-7

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-G-09282023 — Lab Sample ID: 480-213196-8

No Detections.

Client Sample ID: EB-4-09282023 — Lab Sample ID: 480-213196-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.4	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	0.58	J	1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: TB-4-09282023 — Lab Sample ID: 480-213196-10

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7196A	Chromium, Hexavalent	SW846	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Client Sample ID: GW-13D-09252023

Date Collected: 09/25/23 16:25
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 00:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 00:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 00:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 00:32	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 00:32	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 00:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 00:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 00:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 00:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 00:32	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 00:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 00:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 00:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 00:32	1
2-Hexanone	5.0	U *+	5.0	1.2	ug/L			09/27/23 00:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 00:32	1
Acetone	10	U	10	3.0	ug/L			09/27/23 00:32	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 00:32	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 00:32	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 00:32	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 00:32	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 00:32	1
Carbon tetrachloride	**0.61**	**J**	1.0	0.27	ug/L			09/27/23 00:32	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 00:32	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 00:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 00:32	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 00:32	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 00:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 00:32	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 00:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 00:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 00:32	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 00:32	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 00:32	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 00:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 00:32	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 00:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 00:32	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 00:32	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 00:32	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 00:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 00:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 00:32	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 00:32	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 00:32	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 00:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 00:32	1

Client Sample ID: GW-13D-09252023
Lab Sample ID: 480-213061-1

Date Collected: 09/25/23 16:25
Matrix: Water
Date Received: 09/26/23 11:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/27/23 00:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*09/27/23 00:32*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*09/27/23 00:32*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/27/23 00:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 11:50	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0033**	**J**	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	0.010	U	0.010	0.0050	mg/L			09/26/23 12:24	1

Client Sample ID: SW-B-09252023

Date Collected: 09/25/23 13:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 16:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 16:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 16:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 16:11	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 16:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 16:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 16:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 16:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 16:11	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 16:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 16:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 16:11	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 16:11	1
2-Hexanone	5.0	U F1	5.0	1.2	ug/L			09/27/23 16:11	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 16:11	1
Acetone	10	U	10	3.0	ug/L			09/27/23 16:11	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 16:11	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 16:11	1
Bromoform	1.0	U F1	1.0	0.26	ug/L			09/27/23 16:11	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 16:11	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 16:11	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 16:11	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 16:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 16:11	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 16:11	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 16:11	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 16:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 16:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 16:11	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 16:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 16:11	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 16:11	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 16:11	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 16:11	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 16:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 16:11	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 16:11	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 16:11	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 16:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 16:11	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 16:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 16:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 16:11	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 16:11	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 16:11	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 16:11	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 16:11	1

Client Sample ID: SW-B-09252023
Lab Sample ID: 480-213061-2

Date Collected: 09/25/23 13:00
Matrix: Water
Date Received: 09/26/23 11:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/27/23 16:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*09/27/23 16:11*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/27/23 16:11*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/27/23 16:11*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 11:31	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0014**	**J**	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 19:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	0.010	U	0.010	0.0050	mg/L			09/26/23 12:24	1

Client Sample ID: FD-1-09252023
Lab Sample ID: 480-213061-3

Date Collected: 09/25/23 00:00
Matrix: Water
Date Received: 09/26/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 01:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 01:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 01:16	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 01:16	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 01:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 01:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 01:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 01:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 01:16	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 01:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 01:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 01:16	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 01:16	1
2-Hexanone	5.0	U *+	5.0	1.2	ug/L			09/27/23 01:16	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 01:16	1
Acetone	10	U	10	3.0	ug/L			09/27/23 01:16	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 01:16	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 01:16	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 01:16	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 01:16	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 01:16	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 01:16	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 01:16	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 01:16	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 01:16	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 01:16	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 01:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 01:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 01:16	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 01:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 01:16	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 01:16	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 01:16	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 01:16	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 01:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 01:16	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 01:16	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 01:16	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 01:16	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 01:16	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 01:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 01:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 01:16	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 01:16	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 01:16	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 01:16	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 01:16	1

Client Sample ID: FD-1-09252023
Date Collected: 09/25/23 00:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 01:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/27/23 01:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/27/23 01:16*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*09/27/23 01:16*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 12:09	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0015**	**J**	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	0.010	U H H3	0.010	0.0050	mg/L			09/26/23 12:24	1

Client Sample ID: EB-1-09252023

Date Collected: 09/25/23 00:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-4

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 01:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 01:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 01:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 01:38	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 01:38	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 01:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 01:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 01:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 01:38	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 01:38	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 01:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 01:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 01:38	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 01:38	1
2-Hexanone	5.0	U *+	5.0	1.2	ug/L			09/27/23 01:38	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 01:38	1
Acetone	**4.5**	**J**	10	3.0	ug/L			09/27/23 01:38	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 01:38	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 01:38	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 01:38	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 01:38	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 01:38	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 01:38	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 01:38	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 01:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 01:38	1
Chloroform	**0.57**	**J**	1.0	0.34	ug/L			09/27/23 01:38	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 01:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 01:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 01:38	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 01:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 01:38	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 01:38	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 01:38	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 01:38	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 01:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 01:38	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 01:38	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 01:38	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 01:38	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 01:38	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 01:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 01:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 01:38	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 01:38	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 01:38	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 01:38	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 01:38	1

Client Sample ID: EB-1-09252023
Lab Sample ID: 480-213061-4

Date Collected: 09/25/23 00:00
Matrix: Water
Date Received: 09/26/23 11:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/27/23 01:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/27/23 01:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/27/23 01:38*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/27/23 01:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 12:28	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0013**	**J**	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 20:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	0.010	U H H3	0.010	0.0050	mg/L			09/26/23 12:24	1

Client Sample ID: TB-1-09252023
Lab Sample ID: 480-213061-5

Date Collected: 09/25/23 15:25
Matrix: Water
Date Received: 09/26/23 11:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 02:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 02:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 02:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 02:00	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 02:00	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 02:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 02:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 02:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 02:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 02:00	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 02:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 02:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 02:00	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 02:00	1
2-Hexanone	5.0	U *+	5.0	1.2	ug/L			09/27/23 02:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 02:00	1
Acetone	10	U	10	3.0	ug/L			09/27/23 02:00	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 02:00	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 02:00	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 02:00	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 02:00	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 02:00	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 02:00	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 02:00	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 02:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 02:00	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 02:00	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 02:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 02:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 02:00	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 02:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 02:00	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 02:00	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 02:00	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 02:00	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 02:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 02:00	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 02:00	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 02:00	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 02:00	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 02:00	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 02:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 02:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 02:00	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 02:00	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 02:00	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 02:00	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 02:00	1

Client Sample ID: TB-1-09252023
Date Collected: 09/25/23 15:25
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		09/27/23 02:00	1
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		09/27/23 02:00	1
4-Bromofluorobenzene (Surr)	102		73 - 120		09/27/23 02:00	1
Dibromofluoromethane (Surr)	98		75 - 123		09/27/23 02:00	1

Client Sample ID: GW-M-26S-09262023

Date Collected: 09/26/23 09:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 18:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 18:00	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 18:00	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 18:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 18:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:00	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 18:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 18:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 18:00	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 18:00	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 18:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 18:00	1
Acetone	10	U	10	3.0	ug/L			09/27/23 18:00	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:00	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 18:00	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 18:00	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 18:00	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 18:00	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 18:00	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 18:00	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:00	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 18:00	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 18:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 18:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 18:00	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 18:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 18:00	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 18:00	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 18:00	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:00	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 18:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 18:00	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 18:00	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 18:00	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 18:00	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 18:00	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 18:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 18:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 18:00	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 18:00	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 18:00	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 18:00	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 18:00	1

Client Sample ID: GW-M-26S-09262023
Lab Sample ID: 480-213117-1

Date Collected: 09/26/23 09:30
Matrix: Water
Date Received: 09/27/23 10:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*09/27/23 18:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/27/23 18:00*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*09/27/23 18:00*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/27/23 18:00*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 12:14	1

Client Sample ID: GW-M-26D-09262023

Date Collected: 09/26/23 09:50
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 18:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 18:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 18:24	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 18:24	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 18:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 18:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:24	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 18:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 18:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 18:24	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 18:24	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 18:24	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 18:24	1
Acetone	10	U	10	3.0	ug/L			09/27/23 18:24	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:24	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 18:24	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 18:24	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 18:24	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 18:24	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 18:24	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 18:24	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:24	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:24	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 18:24	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 18:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 18:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 18:24	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 18:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 18:24	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 18:24	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 18:24	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:24	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 18:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 18:24	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 18:24	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 18:24	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 18:24	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 18:24	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 18:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 18:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 18:24	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 18:24	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 18:24	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 18:24	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 18:24	1

Client Sample ID: GW-M-26D-09262023
Lab Sample ID: 480-213117-2

Date Collected: 09/26/23 09:50
Matrix: Water
Date Received: 09/27/23 10:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/27/23 18:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/27/23 18:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/27/23 18:24*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/27/23 18:24*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 12:33	1

Client Sample ID: GW-11D-09262023

Date Collected: 09/26/23 11:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 18:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 18:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 18:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 18:49	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 18:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 18:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:49	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 18:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 18:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 18:49	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 18:49	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 18:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 18:49	1
Acetone	10	U	10	3.0	ug/L			09/27/23 18:49	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:49	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 18:49	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 18:49	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 18:49	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 18:49	1
Carbon tetrachloride	**4.7**		1.0	0.27	ug/L			09/27/23 18:49	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 18:49	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:49	1
Chloroform	**0.50**	**J**	1.0	0.34	ug/L			09/27/23 18:49	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 18:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 18:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 18:49	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 18:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 18:49	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 18:49	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 18:49	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:49	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 18:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 18:49	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 18:49	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 18:49	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 18:49	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 18:49	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 18:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 18:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 18:49	1
Trichloroethene	**1.4**		1.0	0.46	ug/L			09/27/23 18:49	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 18:49	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 18:49	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 18:49	1

Client Sample ID: GW-11D-09262023
Lab Sample ID: 480-213117-3

Date Collected: 09/26/23 11:30
Matrix: Water
Date Received: 09/27/23 10:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/27/23 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/27/23 18:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/27/23 18:49*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/27/23 18:49*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 12:52	1

Client Sample ID: DUP-2-09262023

Date Collected: 09/26/23 00:00
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-4

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 19:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 19:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 19:13	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 19:13	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 19:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 19:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 19:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 19:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 19:13	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 19:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 19:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 19:13	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 19:13	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 19:13	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 19:13	1
Acetone	10	U	10	3.0	ug/L			09/27/23 19:13	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 19:13	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 19:13	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 19:13	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 19:13	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 19:13	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 19:13	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 19:13	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 19:13	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 19:13	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 19:13	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 19:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 19:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 19:13	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 19:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 19:13	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 19:13	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 19:13	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 19:13	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 19:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 19:13	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 19:13	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 19:13	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 19:13	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 19:13	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 19:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 19:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 19:13	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 19:13	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 19:13	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 19:13	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 19:13	1

Client Sample ID: DUP-2-09262023
Date Collected: 09/26/23 00:00
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/23 19:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/27/23 19:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/27/23 19:13*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*09/27/23 19:13*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 13:11	1

Client Sample ID: GW-10S-09262023

Date Collected: 09/26/23 13:25
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-5

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 19:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 19:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 19:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 19:37	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 19:37	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 19:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 19:37	1
1,2-Dibromo-3-Chloropropane	1.0	U F2	1.0	0.39	ug/L			09/27/23 19:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 19:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 19:37	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 19:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 19:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 19:37	1
2-Butanone (MEK)	10	U F2	10	1.3	ug/L			09/27/23 19:37	1
2-Hexanone	5.0	U F2	5.0	1.2	ug/L			09/27/23 19:37	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 19:37	1
Acetone	10	U F2	10	3.0	ug/L			09/27/23 19:37	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 19:37	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 19:37	1
Bromoform	1.0	U F2	1.0	0.26	ug/L			09/27/23 19:37	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 19:37	1
Carbon disulfide	1.0	U F2	1.0	0.19	ug/L			09/27/23 19:37	1
Carbon tetrachloride	**0.43**	**J**	1.0	0.27	ug/L			09/27/23 19:37	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 19:37	1
Dibromochloromethane	1.0	U F2	1.0	0.32	ug/L			09/27/23 19:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 19:37	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 19:37	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 19:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 19:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 19:37	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 19:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 19:37	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 19:37	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 19:37	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 19:37	1
Methyl acetate	2.5	U F2	2.5	1.3	ug/L			09/27/23 19:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 19:37	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 19:37	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 19:37	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 19:37	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 19:37	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 19:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 19:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 19:37	1
Trichloroethene	**0.73**	**J**	1.0	0.46	ug/L			09/27/23 19:37	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 19:37	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 19:37	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 19:37	1

Client Sample ID: GW-10S-09262023
Lab Sample ID: 480-213117-5

Date Collected: 09/26/23 13:25
Matrix: Water
Date Received: 09/27/23 10:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/27/23 19:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/27/23 19:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/27/23 19:37*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/27/23 19:37*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 13:30	1

Client Sample ID: GW-13S-09262023

Date Collected: 09/26/23 15:05
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-6

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 20:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 20:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.42**	**J**	1.0	0.31	ug/L			09/27/23 20:02	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 20:02	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 20:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 20:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:02	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:02	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 20:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 20:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 20:02	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 20:02	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 20:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 20:02	1
Acetone	10	U	10	3.0	ug/L			09/27/23 20:02	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:02	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 20:02	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 20:02	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 20:02	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 20:02	1
Carbon tetrachloride	**1.3**		1.0	0.27	ug/L			09/27/23 20:02	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 20:02	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:02	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 20:02	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 20:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 20:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 20:02	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 20:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 20:02	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 20:02	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 20:02	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:02	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 20:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 20:02	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 20:02	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 20:02	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 20:02	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 20:02	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 20:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 20:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 20:02	1
Trichloroethene	**1.0**		1.0	0.46	ug/L			09/27/23 20:02	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 20:02	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 20:02	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 20:02	1

Client Sample ID: GW-13S-09262023

Lab Sample ID: 480-213117-6

Date Collected: 09/26/23 15:05

Matrix: Water

Date Received: 09/27/23 10:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/27/23 20:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/27/23 20:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*09/27/23 20:02*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*09/27/23 20:02*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 13:48	1

Client Sample ID: GW-M-27D-09262023

Date Collected: 09/26/23 16:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 20:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 20:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.77**	**J**	1.0	0.31	ug/L			09/27/23 20:27	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 20:27	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 20:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 20:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:27	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 20:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 20:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 20:27	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 20:27	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 20:27	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 20:27	1
Acetone	10	U	10	3.0	ug/L			09/27/23 20:27	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:27	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 20:27	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 20:27	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 20:27	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 20:27	1
Carbon tetrachloride	**8.4**		1.0	0.27	ug/L			09/27/23 20:27	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 20:27	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:27	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:27	1
Chloroform	**2.2**		1.0	0.34	ug/L			09/27/23 20:27	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 20:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 20:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 20:27	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 20:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 20:27	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 20:27	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 20:27	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:27	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 20:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 20:27	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 20:27	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 20:27	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 20:27	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 20:27	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 20:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 20:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 20:27	1
Trichloroethene	**3.3**		1.0	0.46	ug/L			09/27/23 20:27	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 20:27	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 20:27	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 20:27	1

Client Sample ID: GW-M-27D-09262023
Lab Sample ID: 480-213117-7

Date Collected: 09/26/23 16:30
Matrix: Water
Date Received: 09/27/23 10:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/27/23 20:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*09/27/23 20:27*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/27/23 20:27*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/27/23 20:27*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 14:07	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.063**		0.0040	0.0010	mg/L		09/29/23 08:13	10/08/23 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	**0.0092**	**J**	0.010	0.0050	mg/L			09/27/23 14:16	1

Client Sample ID: EB-2-09262023

Date Collected: 09/26/23 00:00
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-8

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 20:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 20:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 20:51	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 20:51	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 20:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:51	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 20:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:51	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 20:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 20:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 20:51	1
2-Butanone (MEK)	**1.9**	**J**	10	1.3	ug/L			09/27/23 20:51	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 20:51	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 20:51	1
Acetone	**7.0**	**J**	10	3.0	ug/L			09/27/23 20:51	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:51	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 20:51	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 20:51	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 20:51	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 20:51	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 20:51	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 20:51	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:51	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:51	1
Chloroform	**0.52**	**J**	1.0	0.34	ug/L			09/27/23 20:51	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 20:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 20:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 20:51	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 20:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 20:51	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 20:51	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 20:51	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:51	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 20:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 20:51	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 20:51	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 20:51	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 20:51	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 20:51	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 20:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 20:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 20:51	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 20:51	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 20:51	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 20:51	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 20:51	1

Client Sample ID: EB-2-09262023
Lab Sample ID: 480-213117-8

Date Collected: 09/26/23 00:00
Matrix: Water
Date Received: 09/27/23 10:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/27/23 20:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/27/23 20:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*09/27/23 20:51*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/27/23 20:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 14:26	1

Client Sample ID: TB-2-09262023

Date Collected: 09/26/23 16:45
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-9

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 21:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 21:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 21:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 21:15	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 21:15	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 21:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 21:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 21:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 21:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 21:15	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 21:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 21:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 21:15	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 21:15	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 21:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 21:15	1
Acetone	10	U	10	3.0	ug/L			09/27/23 21:15	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 21:15	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 21:15	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 21:15	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 21:15	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 21:15	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 21:15	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 21:15	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 21:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 21:15	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 21:15	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 21:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 21:15	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 21:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 21:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 21:15	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 21:15	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 21:15	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 21:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 21:15	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 21:15	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 21:15	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 21:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 21:15	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 21:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 21:15	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 21:15	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 21:15	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 21:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 21:15	1

Client Sample ID: TB-2-09262023
Date Collected: 09/26/23 16:45
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		09/27/23 21:15	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/27/23 21:15	1
4-Bromofluorobenzene (Surr)	92		73 - 120		09/27/23 21:15	1
Dibromofluoromethane (Surr)	100		75 - 123		09/27/23 21:15	1

Client Sample ID: SW-D-09272023

Date Collected: 09/27/23 16:00
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 04:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 04:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 04:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 04:29	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 04:29	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 04:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 04:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 04:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 04:29	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 04:29	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 04:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 04:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 04:29	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 04:29	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 04:29	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 04:29	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 04:29	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 04:29	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 04:29	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 04:29	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 04:29	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 04:29	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 04:29	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 04:29	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 04:29	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 04:29	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 04:29	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 04:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 04:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 04:29	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 04:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 04:29	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 04:29	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 04:29	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 04:29	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 04:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 04:29	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 04:29	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 04:29	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 04:29	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 04:29	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 04:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 04:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 04:29	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 04:29	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 04:29	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 04:29	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 04:29	1

Client Sample ID: SW-D-09272023
Lab Sample ID: 480-213168-1

Date Collected: 09/27/23 16:00
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/29/23 04:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 04:29*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*09/29/23 04:29*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/29/23 04:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 08:44	1

Client Sample ID: GW-M-28S-09272023

Date Collected: 09/27/23 14:05
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 04:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 04:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 04:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**2.1**		1.0	0.31	ug/L			09/29/23 04:53	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 04:53	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 04:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 04:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 04:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 04:53	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 04:53	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 04:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 04:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 04:53	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 04:53	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 04:53	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 04:53	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 04:53	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 04:53	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 04:53	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 04:53	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 04:53	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 04:53	1
Carbon tetrachloride	**4.1**		1.0	0.27	ug/L			09/29/23 04:53	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 04:53	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 04:53	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 04:53	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 04:53	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 04:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 04:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 04:53	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 04:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 04:53	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 04:53	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 04:53	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 04:53	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 04:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 04:53	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 04:53	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 04:53	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 04:53	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 04:53	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 04:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 04:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 04:53	1
Trichloroethene	**14**		1.0	0.46	ug/L			09/29/23 04:53	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 04:53	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 04:53	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 04:53	1

Client Sample ID: GW-M-28S-09272023
Lab Sample ID: 480-213168-2

Date Collected: 09/27/23 14:05
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 04:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*09/29/23 04:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/29/23 04:53*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*09/29/23 04:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 09:03	1

Client Sample ID: GW-M-29S-09272023

Date Collected: 09/27/23 12:45
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 05:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 05:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 05:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 05:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 05:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 05:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 05:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 05:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 05:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 05:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 05:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 05:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 05:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 05:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 05:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 05:18	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 05:18	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 05:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 05:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 05:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 05:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 05:18	1
Carbon tetrachloride	**2.2**		1.0	0.27	ug/L			09/29/23 05:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 05:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 05:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 05:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 05:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 05:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 05:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 05:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 05:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 05:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 05:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 05:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 05:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 05:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 05:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 05:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 05:18	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 05:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 05:18	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 05:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 05:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 05:18	1
Trichloroethene	**4.2**		1.0	0.46	ug/L			09/29/23 05:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 05:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 05:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 05:18	1

Client Sample ID: GW-M-29S-09272023
Lab Sample ID: 480-213168-3

Date Collected: 09/27/23 12:45
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/23 05:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 05:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/29/23 05:18*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/29/23 05:18*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 09:21	1

Client Sample ID: GW-MW-4-09272023

Date Collected: 09/27/23 11:05
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-4

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 05:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 05:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 05:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 05:42	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 05:42	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 05:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 05:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 05:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 05:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 05:42	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 05:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 05:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 05:42	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 05:42	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 05:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 05:42	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 05:42	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 05:42	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 05:42	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 05:42	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 05:42	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 05:42	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 05:42	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 05:42	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 05:42	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 05:42	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 05:42	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 05:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 05:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 05:42	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 05:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 05:42	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 05:42	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 05:42	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 05:42	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 05:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 05:42	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 05:42	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 05:42	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 05:42	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 05:42	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 05:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 05:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 05:42	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 05:42	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 05:42	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 05:42	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 05:42	1

Client Sample ID: GW-MW-4-09272023
Lab Sample ID: 480-213168-4

Date Collected: 09/27/23 11:05
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/23 05:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*09/29/23 05:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/29/23 05:42*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*09/29/23 05:42*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 09:40	1

Client Sample ID: GW-M-29D-09272023

Date Collected: 09/27/23 12:40
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-5

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 06:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 06:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.3**		1.0	0.31	ug/L			09/29/23 06:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 06:07	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 06:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 06:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:07	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 06:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 06:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 06:07	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 06:07	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 06:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 06:07	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 06:07	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:07	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 06:07	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 06:07	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 06:07	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 06:07	1
Carbon tetrachloride	**9.0**		1.0	0.27	ug/L			09/29/23 06:07	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 06:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:07	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 06:07	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 06:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 06:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 06:07	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 06:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 06:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 06:07	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 06:07	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:07	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 06:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 06:07	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 06:07	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 06:07	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 06:07	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 06:07	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 06:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 06:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 06:07	1
Trichloroethene	**27**		1.0	0.46	ug/L			09/29/23 06:07	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 06:07	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 06:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 06:07	1

Client Sample ID: GW-M-29D-09272023
Lab Sample ID: 480-213168-5

Date Collected: 09/27/23 12:40
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/29/23 06:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*09/29/23 06:07*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*09/29/23 06:07*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*09/29/23 06:07*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 09:59	1

Client Sample ID: GW-M-25D-09272023

Date Collected: 09/27/23 15:20
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-6

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 06:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 06:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.59**	**J**	1.0	0.31	ug/L			09/29/23 06:31	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 06:31	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 06:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 06:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:31	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 06:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 06:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 06:31	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 06:31	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 06:31	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 06:31	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 06:31	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:31	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 06:31	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 06:31	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 06:31	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 06:31	1
Carbon tetrachloride	**19**		1.0	0.27	ug/L			09/29/23 06:31	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 06:31	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:31	1
Chloroform	**1.1**		1.0	0.34	ug/L			09/29/23 06:31	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 06:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 06:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 06:31	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 06:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 06:31	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 06:31	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 06:31	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:31	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 06:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 06:31	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 06:31	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 06:31	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 06:31	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 06:31	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 06:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 06:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 06:31	1
Trichloroethene	**51**		1.0	0.46	ug/L			09/29/23 06:31	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 06:31	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 06:31	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 06:31	1

Client Sample ID: GW-M-25D-09272023
Lab Sample ID: 480-213168-6

Date Collected: 09/27/23 15:20
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/29/23 06:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/29/23 06:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/29/23 06:31*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/29/23 06:31*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 10:18	1

Client Sample ID: GW-M-25S-09272023

Date Collected: 09/27/23 15:20
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 06:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.85**	**J**	1.0	0.31	ug/L			09/29/23 06:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 06:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 06:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 06:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 06:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 06:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 06:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 06:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 06:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 06:56	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 06:56	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 06:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 06:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 06:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 06:56	1
Carbon tetrachloride	**11**		1.0	0.27	ug/L			09/29/23 06:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 06:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:56	1
Chloroform	**0.59**	**J**	1.0	0.34	ug/L			09/29/23 06:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 06:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 06:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 06:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 06:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 06:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 06:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 06:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 06:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 06:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 06:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 06:56	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 06:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 06:56	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 06:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 06:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 06:56	1
Trichloroethene	**26**		1.0	0.46	ug/L			09/29/23 06:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 06:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 06:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 06:56	1

Client Sample ID: GW-M-25S-09272023
Lab Sample ID: 480-213168-7

Date Collected: 09/27/23 15:20
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/23 06:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 06:56*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*09/29/23 06:56*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*09/29/23 06:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 10:37	1

Client Sample ID: GW-M-1-09272023

Date Collected: 09/27/23 09:55
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-8

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 07:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 07:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 07:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 07:20	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 07:20	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 07:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 07:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 07:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 07:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 07:20	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 07:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 07:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 07:20	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 07:20	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 07:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 07:20	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 07:20	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 07:20	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 07:20	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 07:20	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 07:20	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 07:20	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 07:20	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 07:20	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 07:20	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 07:20	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 07:20	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 07:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 07:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 07:20	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 07:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 07:20	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 07:20	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 07:20	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 07:20	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 07:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 07:20	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 07:20	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 07:20	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 07:20	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 07:20	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 07:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 07:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 07:20	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 07:20	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 07:20	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 07:20	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 07:20	1

Client Sample ID: GW-M-1-09272023
Lab Sample ID: 480-213168-8

Date Collected: 09/27/23 09:55
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/29/23 07:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/29/23 07:20*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*09/29/23 07:20*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/29/23 07:20*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 10:56	1

Client Sample ID: GW-M-28D-0929023

Date Collected: 09/27/23 13:55
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-9

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 07:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 07:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 07:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 07:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 07:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 07:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 07:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 07:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 07:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 07:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 07:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 07:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 07:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 07:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 07:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 07:45	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 07:45	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 07:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 07:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 07:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 07:45	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 07:45	1
Carbon tetrachloride	**1.6**		1.0	0.27	ug/L			09/29/23 07:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 07:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 07:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 07:45	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 07:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 07:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 07:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 07:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 07:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 07:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 07:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 07:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 07:45	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 07:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 07:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 07:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 07:45	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 07:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 07:45	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 07:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 07:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 07:45	1
Trichloroethene	**0.63**	**J**	1.0	0.46	ug/L			09/29/23 07:45	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 07:45	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 07:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 07:45	1

Client Sample ID: GW-M-28D-0929023
Lab Sample ID: 480-213168-9

Date Collected: 09/27/23 13:55
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/29/23 07:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 07:45*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*09/29/23 07:45*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*09/29/23 07:45*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 11:15	1

Client Sample ID: EB-3-09272023

Date Collected: 09/27/23 00:00
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-10

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 08:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 08:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 08:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 08:09	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 08:09	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 08:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 08:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 08:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 08:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 08:09	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 08:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 08:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 08:09	1
2-Butanone (MEK)	**1.7**	**J**	10	1.3	ug/L			09/29/23 08:09	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 08:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 08:09	1
Acetone	**5.8**	**J *+**	10	3.0	ug/L			09/29/23 08:09	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 08:09	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 08:09	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 08:09	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 08:09	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 08:09	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 08:09	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 08:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 08:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 08:09	1
Chloroform	**0.53**	**J**	1.0	0.34	ug/L			09/29/23 08:09	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 08:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 08:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 08:09	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 08:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 08:09	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 08:09	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 08:09	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 08:09	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 08:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 08:09	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 08:09	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 08:09	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 08:09	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 08:09	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 08:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 08:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 08:09	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 08:09	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 08:09	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 08:09	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 08:09	1

Client Sample ID: EB-3-09272023
Lab Sample ID: 480-213168-10

Date Collected: 09/27/23 00:00
Matrix: Water
Date Received: 09/28/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/29/23 08:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 08:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/29/23 08:09*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*09/29/23 08:09*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 11:33	1

Client Sample ID: TB-3-09272023

Date Collected: 09/27/23 16:45
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-11

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 08:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 08:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 08:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 08:33	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 08:33	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 08:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 08:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 08:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 08:33	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 08:33	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 08:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 08:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 08:33	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 08:33	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 08:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 08:33	1
Acetone	10	U *+	10	3.0	ug/L			09/29/23 08:33	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 08:33	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 08:33	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 08:33	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 08:33	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 08:33	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 08:33	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 08:33	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 08:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 08:33	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 08:33	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 08:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 08:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 08:33	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 08:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 08:33	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 08:33	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 08:33	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 08:33	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 08:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 08:33	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 08:33	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 08:33	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 08:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 08:33	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 08:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 08:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 08:33	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 08:33	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 08:33	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 08:33	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 08:33	1

Client Sample ID: TB-3-09272023
Date Collected: 09/27/23 16:45
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/29/23 08:33	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		09/29/23 08:33	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/29/23 08:33	1
Dibromofluoromethane (Surr)	102		75 - 123		09/29/23 08:33	1

Client Sample ID: GW-4S-09282023

Date Collected: 09/28/23 08:50
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 17:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 17:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 17:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 17:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 17:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 17:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 17:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 17:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 17:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 17:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 17:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 17:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 17:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 17:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 17:56	1
Acetone	10	U	10	3.0	ug/L			10/02/23 17:56	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 17:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 17:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 17:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 17:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 17:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 17:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 17:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 17:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 17:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 17:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 17:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 17:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 17:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 17:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 17:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 17:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 17:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 17:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 17:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 17:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 17:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 17:56	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 17:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 17:56	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 17:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 17:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 17:56	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 17:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 17:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 17:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 17:56	1

Client Sample ID: GW-4S-09282023
Lab Sample ID: 480-213196-1

Date Collected: 09/28/23 08:50
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/02/23 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/02/23 17:56*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*10/02/23 17:56*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/02/23 17:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 08:38	1

Client Sample ID: GW-4D-09282023

Date Collected: 09/28/23 08:55
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 18:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 18:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 18:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 18:19	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 18:19	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 18:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 18:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 18:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 18:19	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 18:19	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 18:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 18:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 18:19	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 18:19	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 18:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 18:19	1
Acetone	10	U	10	3.0	ug/L			10/02/23 18:19	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 18:19	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 18:19	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 18:19	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 18:19	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 18:19	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 18:19	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 18:19	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 18:19	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 18:19	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 18:19	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 18:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 18:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 18:19	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 18:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 18:19	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 18:19	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 18:19	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 18:19	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 18:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 18:19	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 18:19	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 18:19	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 18:19	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 18:19	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 18:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 18:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 18:19	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 18:19	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 18:19	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 18:19	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 18:19	1

Client Sample ID: GW-4D-09282023
Lab Sample ID: 480-213196-2

Date Collected: 09/28/23 08:55
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/02/23 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/02/23 18:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/02/23 18:19*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/02/23 18:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 08:57	1

Client Sample ID: GW-M-24DR-09282023

Date Collected: 09/28/23 11:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 18:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 18:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 18:41	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 18:41	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 18:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 18:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 18:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 18:41	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 18:41	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 18:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 18:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 18:41	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 18:41	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 18:41	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 18:41	1
Acetone	10	U	10	3.0	ug/L			10/02/23 18:41	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 18:41	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 18:41	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 18:41	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 18:41	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 18:41	1
Carbon tetrachloride	**4.0**		1.0	0.27	ug/L			10/02/23 18:41	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 18:41	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 18:41	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 18:41	1
Chloroform	**0.61**	**J**	1.0	0.34	ug/L			10/02/23 18:41	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 18:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 18:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 18:41	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 18:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 18:41	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 18:41	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 18:41	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 18:41	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 18:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 18:41	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 18:41	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 18:41	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 18:41	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 18:41	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 18:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 18:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 18:41	1
Trichloroethene	**6.3**		1.0	0.46	ug/L			10/02/23 18:41	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 18:41	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 18:41	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 18:41	1

Client Sample ID: GW-M-24DR-09282023
Lab Sample ID: 480-213196-3

Date Collected: 09/28/23 11:00
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/02/23 18:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/02/23 18:41*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*10/02/23 18:41*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/02/23 18:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 09:16	1

Client Sample ID: GW-DGC-4S-09282023

Date Collected: 09/28/23 10:45
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-4

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 19:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 19:03	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 19:03	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 19:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 19:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:03	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 19:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 19:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 19:03	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 19:03	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 19:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 19:03	1
Acetone	10	U	10	3.0	ug/L			10/02/23 19:03	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:03	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 19:03	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 19:03	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 19:03	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 19:03	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 19:03	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 19:03	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:03	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 19:03	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 19:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 19:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 19:03	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 19:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 19:03	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 19:03	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 19:03	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:03	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 19:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 19:03	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 19:03	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 19:03	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 19:03	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 19:03	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 19:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 19:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 19:03	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 19:03	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 19:03	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 19:03	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 19:03	1

Client Sample ID: GW-DGC-4S-09282023
Lab Sample ID: 480-213196-4

Date Collected: 09/28/23 10:45
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/02/23 19:03*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/02/23 19:03*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/02/23 19:03*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 09:35	1

Client Sample ID: SW-F-09282023
Lab Sample ID: 480-213196-5

Date Collected: 09/28/23 12:50
Matrix: Water
Date Received: 09/29/23 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 19:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 19:25	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 19:25	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 19:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 19:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:25	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 19:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 19:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 19:25	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 19:25	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 19:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 19:25	1
Acetone	10	U	10	3.0	ug/L			10/02/23 19:25	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:25	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 19:25	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 19:25	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 19:25	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 19:25	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 19:25	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 19:25	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:25	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:25	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 19:25	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 19:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 19:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 19:25	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 19:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 19:25	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 19:25	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 19:25	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:25	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 19:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 19:25	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 19:25	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 19:25	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 19:25	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 19:25	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 19:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 19:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 19:25	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 19:25	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 19:25	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 19:25	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 19:25	1

Client Sample ID: SW-F-09282023
Lab Sample ID: 480-213196-5

Date Collected: 09/28/23 12:50
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/02/23 19:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*10/02/23 19:25*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/02/23 19:25*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 09:53	1

Client Sample ID: SW-A-09282023
Lab Sample ID: 480-213196-6

Date Collected: 09/28/23 11:35
Matrix: Water
Date Received: 09/29/23 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 19:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 19:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 19:47	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 19:47	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 19:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 19:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:47	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 19:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 19:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 19:47	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 19:47	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 19:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 19:47	1
Acetone	10	U	10	3.0	ug/L			10/02/23 19:47	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:47	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 19:47	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 19:47	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 19:47	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 19:47	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 19:47	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 19:47	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:47	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:47	1
Chloroform	**0.78**	**J**	1.0	0.34	ug/L			10/02/23 19:47	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 19:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 19:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 19:47	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 19:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 19:47	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 19:47	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 19:47	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:47	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 19:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 19:47	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 19:47	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 19:47	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 19:47	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 19:47	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 19:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 19:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 19:47	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 19:47	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 19:47	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 19:47	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 19:47	1

Client Sample ID: SW-A-09282023
Lab Sample ID: 480-213196-6

Date Collected: 09/28/23 11:35
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 19:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/02/23 19:47*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*10/02/23 19:47*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/02/23 19:47*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 10:12	1

Client Sample ID: SW-E-09282023
Lab Sample ID: 480-213196-7

Date Collected: 09/28/23 12:30
Matrix: Water
Date Received: 09/29/23 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 20:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 20:09	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 20:09	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 20:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 20:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:09	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 20:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 20:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 20:09	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 20:09	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 20:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 20:09	1
Acetone	10	U	10	3.0	ug/L			10/02/23 20:09	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:09	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 20:09	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 20:09	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 20:09	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 20:09	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 20:09	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 20:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:09	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 20:09	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 20:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 20:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 20:09	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 20:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 20:09	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 20:09	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 20:09	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:09	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 20:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 20:09	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 20:09	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 20:09	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 20:09	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 20:09	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 20:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 20:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 20:09	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 20:09	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 20:09	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 20:09	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 20:09	1

Client Sample ID: SW-E-09282023
Lab Sample ID: 480-213196-7

Date Collected: 09/28/23 12:30
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/02/23 20:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/02/23 20:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*10/02/23 20:09*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/02/23 20:09*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 10:31	1

Client Sample ID: SW-G-09282023
Lab Sample ID: 480-213196-8

Date Collected: 09/28/23 12:00
Matrix: Water
Date Received: 09/29/23 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 20:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 20:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 20:31	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 20:31	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 20:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 20:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:31	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 20:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 20:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 20:31	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 20:31	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 20:31	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 20:31	1
Acetone	10	U	10	3.0	ug/L			10/02/23 20:31	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:31	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 20:31	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 20:31	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 20:31	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 20:31	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 20:31	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 20:31	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:31	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 20:31	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 20:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 20:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 20:31	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 20:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 20:31	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 20:31	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 20:31	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:31	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 20:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 20:31	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 20:31	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 20:31	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 20:31	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 20:31	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 20:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 20:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 20:31	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 20:31	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 20:31	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 20:31	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 20:31	1

Client Sample ID: SW-G-09282023
Lab Sample ID: 480-213196-8

Date Collected: 09/28/23 12:00
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/02/23 20:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*10/02/23 20:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/02/23 20:31*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/02/23 20:31*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 10:50	1

Client Sample ID: EB-4-09282023

Lab Sample ID: 480-213196-9

Date Collected: 09/28/23 00:00

Matrix: Water

Date Received: 09/29/23 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 20:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 20:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 20:53	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 20:53	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 20:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 20:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:53	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:53	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 20:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 20:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 20:53	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 20:53	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 20:53	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 20:53	1
Acetone	**5.4**	**J**	10	3.0	ug/L			10/02/23 20:53	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:53	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 20:53	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 20:53	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 20:53	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 20:53	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 20:53	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 20:53	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:53	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:53	1
Chloroform	**0.58**	**J**	1.0	0.34	ug/L			10/02/23 20:53	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 20:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 20:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 20:53	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 20:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 20:53	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 20:53	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 20:53	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:53	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 20:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 20:53	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 20:53	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 20:53	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 20:53	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 20:53	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 20:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 20:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 20:53	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 20:53	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 20:53	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 20:53	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 20:53	1

Client Sample ID: EB-4-09282023
Lab Sample ID: 480-213196-9

Date Collected: 09/28/23 00:00
Matrix: Water
Date Received: 09/29/23 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 20:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*10/02/23 20:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/02/23 20:53*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/02/23 20:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 11:09	1

Client Sample ID: TB-4-09282023

Lab Sample ID: 480-213196-10

Date Collected: 09/28/23 15:00

Matrix: Water

Date Received: 09/29/23 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 21:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 21:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 21:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 21:15	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 21:15	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 21:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 21:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 21:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 21:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 21:15	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 21:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 21:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 21:15	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 21:15	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 21:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 21:15	1
Acetone	10	U	10	3.0	ug/L			10/02/23 21:15	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 21:15	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 21:15	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 21:15	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 21:15	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 21:15	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 21:15	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 21:15	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 21:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 21:15	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 21:15	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 21:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 21:15	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 21:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 21:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 21:15	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 21:15	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 21:15	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 21:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 21:15	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 21:15	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 21:15	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 21:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 21:15	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 21:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 21:15	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 21:15	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 21:15	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 21:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 21:15	1

Client Sample ID: TB-4-09282023
Date Collected: 09/28/23 15:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		10/02/23 21:15	1
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		10/02/23 21:15	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/02/23 21:15	1
Dibromofluoromethane (Surr)	96		75 - 123		10/02/23 21:15	1

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-213061-1	GW-13D-09252023	97	97	105	98
480-213061-2	SW-B-09252023	97	96	104	98
480-213061-2 MS	SW-B-09252023-MS	98	93	104	95
480-213061-2 MSD	SW-B-09252023-MSD	97	92	103	95
480-213061-3	FD-1-09252023	99	98	102	99
480-213061-4	EB-1-09252023	97	98	102	98
480-213061-5	TB-1-09252023	96	98	102	98
480-213117-1	GW-M-26S-09262023	110	101	109	103
480-213117-2	GW-M-26D-09262023	102	98	97	102
480-213117-3	GW-11D-09262023	103	103	100	102
480-213117-4	DUP-2-09262023	98	99	97	96
480-213117-5	GW-10S-09262023	102	103	97	102
480-213117-5 MS	GW-10S-09262023-MS	99	101	96	104
480-213117-5 MSD	GW-10S-09262023-MSD	105	102	104	108
480-213117-6	GW-13S-09262023	104	103	101	105
480-213117-7	GW-M-27D-09262023	105	102	103	103
480-213117-8	EB-2-09262023	104	101	105	101
480-213117-9	TB-2-09262023	97	101	92	100
480-213168-1	SW-D-09272023	102	103	105	101
480-213168-2	GW-M-28S-09272023	100	100	99	100
480-213168-3	GW-M-29S-09272023	103	103	102	103
480-213168-4	GW-MW-4-09272023	103	105	97	104
480-213168-5	GW-M-29D-09272023	108	108	108	107
480-213168-6	GW-M-25D-09272023	96	101	97	101
480-213168-7	GW-M-25S-09272023	103	103	105	100
480-213168-8	GW-M-1-09272023	98	101	92	102
480-213168-9	GW-M-28D-0929023	106	103	106	106
480-213168-10	EB-3-09272023	102	103	102	105
480-213168-11	TB-3-09272023	100	102	97	102
480-213196-1	GW-4S-09282023	97	96	103	96
480-213196-2	GW-4D-09282023	95	96	101	97
480-213196-3	GW-M-24DR-09282023	98	97	106	97
480-213196-4	GW-DGC-4S-09282023	96	97	100	97
480-213196-5	SW-F-09282023	96	95	105	96
480-213196-6	SW-A-09282023	96	96	103	98
480-213196-7	SW-E-09282023	97	97	102	98
480-213196-8	SW-G-09282023	94	99	100	97
480-213196-9	EB-4-09282023	96	99	100	98
480-213196-10	TB-4-09282023	94	96	101	96
LCS 480-685071/6	Lab Control Sample	98	93	103	96
LCS 480-685139/6	Lab Control Sample	99	94	104	96
LCS 480-685187/7	Lab Control Sample	97	100	96	102
LCS 480-685418/6	Lab Control Sample	102	113	101	107
LCS 480-685822/6	Lab Control Sample	96	95	100	94
MB 480-685071/9	Method Blank	96	94	102	94
MB 480-685139/9	Method Blank	98	97	100	96
MB 480-685187/9	Method Blank	99	98	102	97
MB 480-685418/8	Method Blank	101	101	100	101
MB 480-685822/8	Method Blank	96	95	102	96

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Surrogate Legend

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

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

Lab Sample ID: MB 480-685071/9
Matrix: Water
Analysis Batch: 685071

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/26/23 23:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/26/23 23:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/26/23 23:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/26/23 23:04	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/26/23 23:04	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/26/23 23:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/26/23 23:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/26/23 23:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/26/23 23:04	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/26/23 23:04	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/26/23 23:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/26/23 23:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/26/23 23:04	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/26/23 23:04	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/26/23 23:04	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/26/23 23:04	1
Acetone	10	U	10	3.0	ug/L			09/26/23 23:04	1
Benzene	1.0	U	1.0	0.41	ug/L			09/26/23 23:04	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/26/23 23:04	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/26/23 23:04	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/26/23 23:04	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/26/23 23:04	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/26/23 23:04	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/26/23 23:04	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/26/23 23:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/26/23 23:04	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/26/23 23:04	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/26/23 23:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/26/23 23:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/26/23 23:04	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/26/23 23:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/26/23 23:04	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/26/23 23:04	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/26/23 23:04	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/26/23 23:04	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/26/23 23:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/26/23 23:04	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/26/23 23:04	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/26/23 23:04	1
Styrene	1.0	U	1.0	0.73	ug/L			09/26/23 23:04	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/26/23 23:04	1
Toluene	1.0	U	1.0	0.51	ug/L			09/26/23 23:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/26/23 23:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/26/23 23:04	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/26/23 23:04	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/26/23 23:04	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/26/23 23:04	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/26/23 23:04	1

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

Lab Sample ID: MB 480-685071/9
Matrix: Water
Analysis Batch: 685071

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/26/23 23:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*09/26/23 23:04*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/26/23 23:04*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*09/26/23 23:04*	*1*

Lab Sample ID: LCS 480-685071/6
Matrix: Water
Analysis Batch: 685071

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	27.6		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	27.4		ug/L		110	76 - 120
1,1,2-Trichloroethane	25.0	28.1		ug/L		112	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.8		ug/L		111	61 - 148
1,1-Dichloroethane	25.0	25.6		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	28.7		ug/L		115	66 - 127
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	28.2		ug/L		113	56 - 134
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	24.3		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	27.2		ug/L		109	76 - 120
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	77 - 120
1,4-Dichlorobenzene	25.0	26.7		ug/L		107	80 - 120
2-Butanone (MEK)	125	140		ug/L		112	57 - 140
2-Hexanone	125	161	*+	ug/L		128	65 - 127
4-Methyl-2-pentanone (MIBK)	125	147		ug/L		117	71 - 125
Acetone	125	125		ug/L		100	56 - 142
Benzene	25.0	26.4		ug/L		105	71 - 124
Bromodichloromethane	25.0	27.5		ug/L		110	80 - 122
Bromoform	25.0	33.0		ug/L		132	61 - 132
Bromomethane	25.0	23.5		ug/L		94	55 - 144
Carbon disulfide	25.0	28.3		ug/L		113	59 - 134
Carbon tetrachloride	25.0	29.8		ug/L		119	72 - 134
Chlorobenzene	25.0	27.1		ug/L		108	80 - 120
Dibromochloromethane	25.0	30.1		ug/L		120	75 - 125
Chloroethane	25.0	23.0		ug/L		92	69 - 136
Chloroform	25.0	24.7		ug/L		99	73 - 127
Chloromethane	25.0	21.9		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	28.1		ug/L		112	74 - 124
Cyclohexane	25.0	28.7		ug/L		115	59 - 135
Dichlorodifluoromethane	25.0	21.8		ug/L		87	59 - 135
Ethylbenzene	25.0	28.5		ug/L		114	77 - 123
1,2-Dibromoethane	25.0	28.2		ug/L		113	77 - 120
Isopropylbenzene	25.0	26.5		ug/L		106	77 - 122
Methyl acetate	50.0	53.3		ug/L		107	74 - 133
Methyl tert-butyl ether	25.0	24.6		ug/L		98	77 - 120
Methylcyclohexane	25.0	27.9		ug/L		111	68 - 134

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

Lab Sample ID: LCS 480-685071/6
Matrix: Water
Analysis Batch: 685071

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	25.6		ug/L		102	75 - 124
Styrene	25.0	28.1		ug/L		112	80 - 120
Tetrachloroethene	25.0	27.6		ug/L		111	74 - 122
Toluene	25.0	27.3		ug/L		109	80 - 122
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	73 - 127
trans-1,3-Dichloropropene	25.0	29.3		ug/L		117	80 - 120
Trichloroethene	25.0	26.5		ug/L		106	74 - 123
Trichlorofluoromethane	25.0	27.1		ug/L		109	62 - 150
Vinyl chloride	25.0	24.2		ug/L		97	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 123*

Lab Sample ID: MB 480-685139/9
Matrix: Water
Analysis Batch: 685139

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 11:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 11:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 11:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 11:28	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 11:28	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 11:28	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 11:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 11:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 11:28	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 11:28	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 11:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 11:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 11:28	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 11:28	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 11:28	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 11:28	1
Acetone	10	U	10	3.0	ug/L			09/27/23 11:28	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 11:28	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 11:28	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 11:28	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 11:28	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 11:28	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 11:28	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 11:28	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 11:28	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 11:28	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 11:28	1

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

Lab Sample ID: MB 480-685139/9
Matrix: Water
Analysis Batch: 685139

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 11:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 11:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 11:28	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 11:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 11:28	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 11:28	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 11:28	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 11:28	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 11:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 11:28	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 11:28	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 11:28	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 11:28	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 11:28	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 11:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 11:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 11:28	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 11:28	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 11:28	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 11:28	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/23 11:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*09/27/23 11:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/27/23 11:28*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*09/27/23 11:28*	*1*

Lab Sample ID: LCS 480-685139/6
Matrix: Water
Analysis Batch: 685139

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	27.9		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.3		ug/L		105	76 - 120
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.7		ug/L		115	61 - 148
1,1-Dichloroethane	25.0	26.0		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	28.6		ug/L		114	66 - 127
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.7		ug/L		103	56 - 134
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	23.5		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	26.7		ug/L		107	76 - 120
1,3-Dichlorobenzene	25.0	26.6		ug/L		107	77 - 120
1,4-Dichlorobenzene	25.0	26.6		ug/L		106	80 - 120
2-Butanone (MEK)	125	132		ug/L		105	57 - 140
2-Hexanone	125	137		ug/L		110	65 - 127

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

Lab Sample ID: LCS 480-685139/6
Matrix: Water
Analysis Batch: 685139

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	128		ug/L		103	56 - 142
Benzene	25.0	26.6		ug/L		106	71 - 124
Bromodichloromethane	25.0	27.3		ug/L		109	80 - 122
Bromoform	25.0	31.5		ug/L		126	61 - 132
Bromomethane	25.0	24.5		ug/L		98	55 - 144
Carbon disulfide	25.0	28.9		ug/L		116	59 - 134
Carbon tetrachloride	25.0	29.1		ug/L		117	72 - 134
Chlorobenzene	25.0	27.1		ug/L		109	80 - 120
Dibromochloromethane	25.0	29.8		ug/L		119	75 - 125
Chloroethane	25.0	23.1		ug/L		93	69 - 136
Chloroform	25.0	25.0		ug/L		100	73 - 127
Chloromethane	25.0	21.5		ug/L		86	68 - 124
cis-1,2-Dichloroethene	25.0	26.4		ug/L		105	74 - 124
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	74 - 124
Cyclohexane	25.0	28.8		ug/L		115	59 - 135
Dichlorodifluoromethane	25.0	21.7		ug/L		87	59 - 135
Ethylbenzene	25.0	28.5		ug/L		114	77 - 123
1,2-Dibromoethane	25.0	27.3		ug/L		109	77 - 120
Isopropylbenzene	25.0	27.4		ug/L		110	77 - 122
Methyl acetate	50.0	50.7		ug/L		101	74 - 133
Methyl tert-butyl ether	25.0	24.6		ug/L		98	77 - 120
Methylcyclohexane	25.0	27.8		ug/L		111	68 - 134
Methylene Chloride	25.0	25.5		ug/L		102	75 - 124
Styrene	25.0	27.9		ug/L		112	80 - 120
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
Toluene	25.0	27.5		ug/L		110	80 - 122
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	73 - 127
trans-1,3-Dichloropropene	25.0	29.3		ug/L		117	80 - 120
Trichloroethene	25.0	26.6		ug/L		106	74 - 123
Trichlorofluoromethane	25.0	27.2		ug/L		109	62 - 150
Vinyl chloride	25.0	24.6		ug/L		98	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 123*

Lab Sample ID: 480-213061-2 MS
Matrix: Water
Analysis Batch: 685139

Client Sample ID: SW-B-09252023-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	1.0	U	25.0	29.0		ug/L		116	73 - 126
1,1,2,2-Tetrachloroethane	1.0	U	25.0	27.9		ug/L		111	76 - 120
1,1,2-Trichloroethane	1.0	U	25.0	28.1		ug/L		112	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	27.8		ug/L		111	61 - 148

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

Lab Sample ID: 480-213061-2 MS
Matrix: Water
Analysis Batch: 685139

Client Sample ID: SW-B-09252023-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	1.0	U	25.0	26.7		ug/L		107	77 - 120
1,1-Dichloroethene	1.0	U	25.0	30.9		ug/L		123	66 - 127
1,2,4-Trichlorobenzene	1.0	U	25.0	25.6		ug/L		103	79 - 122
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	29.0		ug/L		116	56 - 134
1,2-Dichlorobenzene	1.0	U	25.0	26.5		ug/L		106	80 - 124
1,2-Dichloroethane	1.0	U	25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	1.0	U	25.0	27.2		ug/L		109	76 - 120
1,3-Dichlorobenzene	1.0	U	25.0	27.8		ug/L		111	77 - 120
1,4-Dichlorobenzene	1.0	U	25.0	27.4		ug/L		109	78 - 124
2-Butanone (MEK)	10	U	125	145		ug/L		116	57 - 140
2-Hexanone	5.0	U F1	125	164	F1	ug/L		131	65 - 127
4-Methyl-2-pentanone (MIBK)	5.0	U	125	147		ug/L		118	71 - 125
Acetone	10	U	125	133		ug/L		106	56 - 142
Benzene	1.0	U	25.0	27.4		ug/L		109	71 - 124
Bromodichloromethane	1.0	U	25.0	27.4		ug/L		110	80 - 122
Bromoform	1.0	U F1	25.0	32.4		ug/L		130	61 - 132
Bromomethane	1.0	U	25.0	16.8		ug/L		67	55 - 144
Carbon disulfide	1.0	U	25.0	27.3		ug/L		109	59 - 134
Carbon tetrachloride	1.0	U	25.0	30.1		ug/L		120	72 - 134
Chlorobenzene	1.0	U	25.0	28.4		ug/L		113	80 - 120
Dibromochloromethane	1.0	U	25.0	30.2		ug/L		121	75 - 125
Chloroethane	1.0	U	25.0	19.8		ug/L		79	69 - 136
Chloroform	1.0	U	25.0	25.4		ug/L		102	73 - 127
Chloromethane	1.0	U	25.0	22.8		ug/L		91	68 - 124
cis-1,2-Dichloroethene	1.0	U	25.0	26.9		ug/L		108	74 - 124
cis-1,3-Dichloropropene	1.0	U	25.0	27.4		ug/L		110	74 - 124
Cyclohexane	1.0	U	25.0	28.0		ug/L		112	59 - 135
Dichlorodifluoromethane	1.0	U	25.0	20.7		ug/L		83	59 - 135
Ethylbenzene	1.0	U	25.0	29.4		ug/L		118	77 - 123
1,2-Dibromoethane	1.0	U	25.0	28.9		ug/L		116	77 - 120
Isopropylbenzene	1.0	U	25.0	27.7		ug/L		111	77 - 122
Methyl acetate	2.5	U	50.0	54.3		ug/L		109	74 - 133
Methyl tert-butyl ether	1.0	U	25.0	24.9		ug/L		100	77 - 120
Methylcyclohexane	1.0	U	25.0	26.6		ug/L		106	68 - 134
Methylene Chloride	1.0	U	25.0	26.2		ug/L		105	75 - 124
Styrene	1.0	U	25.0	29.1		ug/L		116	80 - 120
Tetrachloroethene	1.0	U	25.0	28.9		ug/L		116	74 - 122
Toluene	1.0	U	25.0	28.5		ug/L		114	80 - 122
trans-1,2-Dichloroethene	1.0	U	25.0	27.6		ug/L		110	73 - 127
trans-1,3-Dichloropropene	1.0	U	25.0	29.1		ug/L		116	80 - 120
Trichloroethene	1.0	U	25.0	27.5		ug/L		110	74 - 123
Trichlorofluoromethane	1.0	U	25.0	27.3		ug/L		109	62 - 150
Vinyl chloride	1.0	U	25.0	27.2		ug/L		109	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*

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

Lab Sample ID: 480-213061-2 MS
Matrix: Water
Analysis Batch: 685139

Client Sample ID: SW-B-09252023-MS
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Lab Sample ID: 480-213061-2 MSD
Matrix: Water
Analysis Batch: 685139

Client Sample ID: SW-B-09252023-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	25.0	29.8		ug/L		119	73 - 126	3	15
1,1,2,2-Tetrachloroethane	1.0	U	25.0	28.5		ug/L		114	76 - 120	2	15
1,1,2-Trichloroethane	1.0	U	25.0	28.6		ug/L		115	76 - 122	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	29.2		ug/L		117	61 - 148	5	20
1,1-Dichloroethane	1.0	U	25.0	27.1		ug/L		109	77 - 120	2	20
1,1-Dichloroethene	1.0	U	25.0	31.2		ug/L		125	66 - 127	1	16
1,2,4-Trichlorobenzene	1.0	U	25.0	26.2		ug/L		105	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	29.2		ug/L		117	56 - 134	1	15
1,2-Dichlorobenzene	1.0	U	25.0	27.2		ug/L		109	80 - 124	3	20
1,2-Dichloroethane	1.0	U	25.0	25.5		ug/L		102	75 - 120	3	20
1,2-Dichloropropane	1.0	U	25.0	28.2		ug/L		113	76 - 120	4	20
1,3-Dichlorobenzene	1.0	U	25.0	28.3		ug/L		113	77 - 120	2	20
1,4-Dichlorobenzene	1.0	U	25.0	27.9		ug/L		111	78 - 124	2	20
2-Butanone (MEK)	10	U	125	150		ug/L		120	57 - 140	3	20
2-Hexanone	5.0	U F1	125	166	F1	ug/L		133	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	5.0	U	125	149		ug/L		119	71 - 125	1	35
Acetone	10	U	125	132		ug/L		106	56 - 142	1	15
Benzene	1.0	U	25.0	28.3		ug/L		113	71 - 124	3	13
Bromodichloromethane	1.0	U	25.0	28.6		ug/L		114	80 - 122	4	15
Bromoform	1.0	U F1	25.0	33.2	F1	ug/L		133	61 - 132	2	15
Bromomethane	1.0	U	25.0	16.7		ug/L		67	55 - 144	1	15
Carbon disulfide	1.0	U	25.0	28.4		ug/L		114	59 - 134	4	15
Carbon tetrachloride	1.0	U	25.0	31.2		ug/L		125	72 - 134	4	15
Chlorobenzene	1.0	U	25.0	28.7		ug/L		115	80 - 120	1	25
Dibromochloromethane	1.0	U	25.0	31.2		ug/L		125	75 - 125	3	15
Chloroethane	1.0	U	25.0	20.8		ug/L		83	69 - 136	5	15
Chloroform	1.0	U	25.0	26.0		ug/L		104	73 - 127	2	20
Chloromethane	1.0	U	25.0	22.6		ug/L		90	68 - 124	1	15
cis-1,2-Dichloroethene	1.0	U	25.0	27.6		ug/L		111	74 - 124	3	15
cis-1,3-Dichloropropene	1.0	U	25.0	29.0		ug/L		116	74 - 124	6	15
Cyclohexane	1.0	U	25.0	28.6		ug/L		114	59 - 135	2	20
Dichlorodifluoromethane	1.0	U	25.0	21.1		ug/L		84	59 - 135	2	20
Ethylbenzene	1.0	U	25.0	30.2		ug/L		121	77 - 123	3	15
1,2-Dibromoethane	1.0	U	25.0	29.6		ug/L		118	77 - 120	2	15
Isopropylbenzene	1.0	U	25.0	28.3		ug/L		113	77 - 122	2	20
Methyl acetate	2.5	U	50.0	54.1		ug/L		108	74 - 133	0	20
Methyl tert-butyl ether	1.0	U	25.0	25.8		ug/L		103	77 - 120	3	37
Methylcyclohexane	1.0	U	25.0	27.6		ug/L		111	68 - 134	4	20
Methylene Chloride	1.0	U	25.0	26.9		ug/L		108	75 - 124	3	15
Styrene	1.0	U	25.0	29.7		ug/L		119	80 - 120	2	20
Tetrachloroethene	1.0	U	25.0	29.4		ug/L		118	74 - 122	2	20

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

Lab Sample ID: 480-213061-2 MSD
Matrix: Water
Analysis Batch: 685139

Client Sample ID: SW-B-09252023-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	1.0	U	25.0	28.9		ug/L		115	80 - 122	1	15
trans-1,2-Dichloroethene	1.0	U	25.0	28.4		ug/L		114	73 - 127	3	20
trans-1,3-Dichloropropene	1.0	U	25.0	29.8		ug/L		119	80 - 120	3	15
Trichloroethene	1.0	U	25.0	28.0		ug/L		112	74 - 123	2	16
Trichlorofluoromethane	1.0	U	25.0	27.2		ug/L		109	62 - 150	0	20
Vinyl chloride	1.0	U	25.0	26.6		ug/L		107	65 - 133	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Lab Sample ID: MB 480-685187/9
Matrix: Water
Analysis Batch: 685187

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 14:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 14:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 14:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 14:46	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 14:46	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 14:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 14:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 14:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 14:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 14:46	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 14:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 14:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 14:46	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 14:46	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 14:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 14:46	1
Acetone	10	U	10	3.0	ug/L			09/27/23 14:46	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 14:46	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 14:46	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 14:46	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 14:46	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 14:46	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 14:46	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 14:46	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 14:46	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 14:46	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 14:46	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 14:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 14:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 14:46	1

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

Lab Sample ID: MB 480-685187/9
Matrix: Water
Analysis Batch: 685187

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 14:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 14:46	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 14:46	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 14:46	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 14:46	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 14:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 14:46	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 14:46	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 14:46	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 14:46	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 14:46	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 14:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 14:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 14:46	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 14:46	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 14:46	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 14:46	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 14:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/27/23 14:46*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/27/23 14:46*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*09/27/23 14:46*	*1*

Lab Sample ID: LCS 480-685187/7
Matrix: Water
Analysis Batch: 685187

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	76 - 120
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.9		ug/L		108	61 - 148
1,1-Dichloroethane	25.0	25.1		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	26.1		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	56 - 134
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	24.6		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	25.2		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	105		ug/L		84	57 - 140
2-Hexanone	125	104		ug/L		83	65 - 127
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		83	71 - 125
Acetone	125	117		ug/L		93	56 - 142
Benzene	25.0	25.0		ug/L		100	71 - 124

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

Lab Sample ID: LCS 480-685187/7
Matrix: Water
Analysis Batch: 685187

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	25.0	26.5		ug/L		106	80 - 122
Bromoform	25.0	22.4		ug/L		90	61 - 132
Bromomethane	25.0	24.5		ug/L		98	55 - 144
Carbon disulfide	25.0	23.4		ug/L		93	59 - 134
Carbon tetrachloride	25.0	27.9		ug/L		112	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Dibromochloromethane	25.0	27.2		ug/L		109	75 - 125
Chloroethane	25.0	25.4		ug/L		101	69 - 136
Chloroform	25.0	24.6		ug/L		98	73 - 127
Chloromethane	25.0	23.4		ug/L		94	68 - 124
cis-1,2-Dichloroethene	25.0	25.1		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	26.4		ug/L		105	74 - 124
Cyclohexane	25.0	26.0		ug/L		104	59 - 135
Dichlorodifluoromethane	25.0	25.6		ug/L		102	59 - 135
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
1,2-Dibromoethane	25.0	24.3		ug/L		97	77 - 120
Isopropylbenzene	25.0	25.4		ug/L		102	77 - 122
Methyl acetate	50.0	43.8		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	24.5		ug/L		98	77 - 120
Methylcyclohexane	25.0	26.3		ug/L		105	68 - 134
Methylene Chloride	25.0	25.5		ug/L		102	75 - 124
Styrene	25.0	24.7		ug/L		99	80 - 120
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
Toluene	25.0	24.4		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	80 - 120
Trichloroethene	25.0	25.6		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	24.5		ug/L		98	62 - 150
Vinyl chloride	25.0	26.4		ug/L		106	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-213117-5 MS
Matrix: Water
Analysis Batch: 685187

Client Sample ID: GW-10S-09262023-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	1.0	U	25.0	25.7		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	1.0	U	25.0	23.7		ug/L		95	76 - 120
1,1,2-Trichloroethane	1.0	U	25.0	23.7		ug/L		95	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	26.3		ug/L		105	61 - 148
1,1-Dichloroethane	1.0	U	25.0	24.1		ug/L		96	77 - 120
1,1-Dichloroethene	1.0	U	25.0	25.5		ug/L		102	66 - 127
1,2,4-Trichlorobenzene	1.0	U	25.0	23.0		ug/L		92	79 - 122

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

Lab Sample ID: 480-213117-5 MS
Matrix: Water
Analysis Batch: 685187

Client Sample ID: GW-10S-09262023-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	1.0	U F2	25.0	23.5		ug/L		94	56 - 134
1,2-Dichlorobenzene	1.0	U	25.0	23.3		ug/L		93	80 - 124
1,2-Dichloroethane	1.0	U	25.0	23.5		ug/L		94	75 - 120
1,2-Dichloropropane	1.0	U	25.0	23.8		ug/L		95	76 - 120
1,3-Dichlorobenzene	1.0	U	25.0	23.8		ug/L		95	77 - 120
1,4-Dichlorobenzene	1.0	U	25.0	23.4		ug/L		94	78 - 124
2-Butanone (MEK)	10	U F2	125	104		ug/L		83	57 - 140
2-Hexanone	5.0	U F2	125	108		ug/L		87	65 - 127
4-Methyl-2-pentanone (MIBK)	5.0	U	125	110		ug/L		88	71 - 125
Acetone	10	U F2	125	105		ug/L		84	56 - 142
Benzene	1.0	U	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	1.0	U	25.0	25.3		ug/L		101	80 - 122
Bromoform	1.0	U F2	25.0	19.2		ug/L		77	61 - 132
Bromomethane	1.0	U	25.0	26.7		ug/L		107	55 - 144
Carbon disulfide	1.0	U F2	25.0	23.6		ug/L		94	59 - 134
Carbon tetrachloride	0.43	J	25.0	27.1		ug/L		107	72 - 134
Chlorobenzene	1.0	U	25.0	24.0		ug/L		96	80 - 120
Dibromochloromethane	1.0	U F2	25.0	25.4		ug/L		102	75 - 125
Chloroethane	1.0	U	25.0	27.7		ug/L		111	69 - 136
Chloroform	1.0	U	25.0	23.9		ug/L		96	73 - 127
Chloromethane	1.0	U	25.0	22.1		ug/L		88	68 - 124
cis-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		96	74 - 124
cis-1,3-Dichloropropene	1.0	U	25.0	23.8		ug/L		95	74 - 124
Cyclohexane	1.0	U	25.0	25.9		ug/L		104	59 - 135
Dichlorodifluoromethane	1.0	U	25.0	27.7		ug/L		111	59 - 135
Ethylbenzene	1.0	U	25.0	24.3		ug/L		97	77 - 123
1,2-Dibromoethane	1.0	U	25.0	23.6		ug/L		94	77 - 120
Isopropylbenzene	1.0	U	25.0	24.9		ug/L		100	77 - 122
Methyl acetate	2.5	U F2	50.0	42.1		ug/L		84	74 - 133
Methyl tert-butyl ether	1.0	U	25.0	23.9		ug/L		96	77 - 120
Methylcyclohexane	1.0	U	25.0	26.1		ug/L		105	68 - 134
Methylene Chloride	1.0	U	25.0	24.1		ug/L		97	75 - 124
Styrene	1.0	U	25.0	23.8		ug/L		95	80 - 120
Tetrachloroethene	1.0	U	25.0	24.9		ug/L		100	74 - 122
Toluene	1.0	U	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	1.0	U	25.0	24.8		ug/L		99	73 - 127
trans-1,3-Dichloropropene	1.0	U	25.0	24.4		ug/L		98	80 - 120
Trichloroethene	0.73	J	25.0	25.2		ug/L		98	74 - 123
Trichlorofluoromethane	1.0	U	25.0	25.4		ug/L		102	62 - 150
Vinyl chloride	1.0	U	25.0	29.3		ug/L		117	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

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

Lab Sample ID: 480-213117-5 MSD
Matrix: Water
Analysis Batch: 685187

Client Sample ID: GW-10S-09262023-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	25.0	29.3		ug/L		117	73 - 126	13	15
1,1,2,2-Tetrachloroethane	1.0	U	25.0	27.6		ug/L		110	76 - 120	15	15
1,1,2-Trichloroethane	1.0	U	25.0	26.7		ug/L		107	76 - 122	12	15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	28.8		ug/L		115	61 - 148	9	20
1,1-Dichloroethane	1.0	U	25.0	27.7		ug/L		111	77 - 120	14	20
1,1-Dichloroethene	1.0	U	25.0	29.3		ug/L		117	66 - 127	14	16
1,2,4-Trichlorobenzene	1.0	U	25.0	25.4		ug/L		101	79 - 122	10	20
1,2-Dibromo-3-Chloropropane	1.0	U F2	25.0	29.5	F2	ug/L		118	56 - 134	23	15
1,2-Dichlorobenzene	1.0	U	25.0	26.6		ug/L		106	80 - 124	13	20
1,2-Dichloroethane	1.0	U	25.0	26.1		ug/L		105	75 - 120	11	20
1,2-Dichloropropane	1.0	U	25.0	27.1		ug/L		108	76 - 120	13	20
1,3-Dichlorobenzene	1.0	U	25.0	27.3		ug/L		109	77 - 120	13	20
1,4-Dichlorobenzene	1.0	U	25.0	26.9		ug/L		108	78 - 124	14	20
2-Butanone (MEK)	10	U F2	125	130	F2	ug/L		104	57 - 140	22	20
2-Hexanone	5.0	U F2	125	132	F2	ug/L		105	65 - 127	20	15
4-Methyl-2-pentanone (MIBK)	5.0	U	125	133		ug/L		107	71 - 125	19	35
Acetone	10	U F2	125	130	F2	ug/L		104	56 - 142	21	15
Benzene	1.0	U	25.0	27.4		ug/L		110	71 - 124	12	13
Bromodichloromethane	1.0	U	25.0	28.8		ug/L		115	80 - 122	13	15
Bromoform	1.0	U F2	25.0	24.8	F2	ug/L		99	61 - 132	25	15
Bromomethane	1.0	U	25.0	24.9		ug/L		99	55 - 144	7	15
Carbon disulfide	1.0	U F2	25.0	27.9	F2	ug/L		111	59 - 134	17	15
Carbon tetrachloride	0.43	J	25.0	31.5		ug/L		124	72 - 134	15	15
Chlorobenzene	1.0	U	25.0	27.1		ug/L		108	80 - 120	12	25
Dibromochloromethane	1.0	U F2	25.0	30.0	F2	ug/L		120	75 - 125	17	15
Chloroethane	1.0	U	25.0	27.2		ug/L		109	69 - 136	2	15
Chloroform	1.0	U	25.0	26.9		ug/L		108	73 - 127	12	20
Chloromethane	1.0	U	25.0	23.2		ug/L		93	68 - 124	5	15
cis-1,2-Dichloroethene	1.0	U	25.0	27.6		ug/L		111	74 - 124	14	15
cis-1,3-Dichloropropene	1.0	U	25.0	27.5		ug/L		110	74 - 124	15	15
Cyclohexane	1.0	U	25.0	28.4		ug/L		113	59 - 135	9	20
Dichlorodifluoromethane	1.0	U	25.0	27.1		ug/L		108	59 - 135	2	20
Ethylbenzene	1.0	U	25.0	27.5		ug/L		110	77 - 123	13	15
1,2-Dibromoethane	1.0	U	25.0	27.2		ug/L		109	77 - 120	14	15
Isopropylbenzene	1.0	U	25.0	29.5		ug/L		118	77 - 122	17	20
Methyl acetate	2.5	U F2	50.0	52.0	F2	ug/L		104	74 - 133	21	20
Methyl tert-butyl ether	1.0	U	25.0	26.8		ug/L		107	77 - 120	11	37
Methylcyclohexane	1.0	U	25.0	28.3		ug/L		113	68 - 134	8	20
Methylene Chloride	1.0	U	25.0	27.5		ug/L		110	75 - 124	13	15
Styrene	1.0	U	25.0	27.0		ug/L		108	80 - 120	13	20
Tetrachloroethene	1.0	U	25.0	28.1		ug/L		112	74 - 122	12	20
Toluene	1.0	U	25.0	27.7		ug/L		111	80 - 122	13	15
trans-1,2-Dichloroethene	1.0	U	25.0	28.3		ug/L		113	73 - 127	13	20
trans-1,3-Dichloropropene	1.0	U	25.0	27.7		ug/L		111	80 - 120	12	15
Trichloroethene	0.73	J	25.0	28.8		ug/L		112	74 - 123	13	16
Trichlorofluoromethane	1.0	U	25.0	25.8		ug/L		103	62 - 150	1	20
Vinyl chloride	1.0	U	25.0	29.9		ug/L		119	65 - 133	2	15

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

Lab Sample ID: 480-213117-5 MSD
Matrix: Water
Analysis Batch: 685187

Client Sample ID: GW-10S-09262023-MSD
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Lab Sample ID: MB 480-685418/8
Matrix: Water
Analysis Batch: 685418

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 02:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 02:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 02:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 02:02	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 02:02	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 02:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 02:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 02:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 02:02	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 02:02	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 02:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 02:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 02:02	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 02:02	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 02:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 02:02	1
Acetone	10	U	10	3.0	ug/L			09/29/23 02:02	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 02:02	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 02:02	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 02:02	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 02:02	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/29/23 02:02	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 02:02	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 02:02	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 02:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 02:02	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 02:02	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 02:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 02:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 02:02	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 02:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 02:02	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 02:02	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 02:02	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 02:02	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 02:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 02:02	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 02:02	1

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

Lab Sample ID: MB 480-685418/8
Matrix: Water
Analysis Batch: 685418

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 02:02	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 02:02	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 02:02	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 02:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 02:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 02:02	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 02:02	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 02:02	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 02:02	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 02:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 02:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/29/23 02:02*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/29/23 02:02*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/29/23 02:02*	*1*

Lab Sample ID: LCS 480-685418/6
Matrix: Water
Analysis Batch: 685418

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		106	76 - 120
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.3		ug/L		101	61 - 148
1,1-Dichloroethane	25.0	24.2		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	24.5		ug/L		98	66 - 127
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	30.1		ug/L		120	56 - 134
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	25.5		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	24.5		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	77 - 120
1,4-Dichlorobenzene	25.0	24.9		ug/L		100	80 - 120
2-Butanone (MEK)	125	154		ug/L		123	57 - 140
2-Hexanone	125	128		ug/L		102	65 - 127
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	71 - 125
Acetone	125	195	*+	ug/L		156	56 - 142
Benzene	25.0	24.4		ug/L		97	71 - 124
Bromodichloromethane	25.0	26.6		ug/L		106	80 - 122
Bromoform	25.0	23.1		ug/L		92	61 - 132
Bromomethane	25.0	23.3		ug/L		93	55 - 144
Carbon disulfide	25.0	20.4		ug/L		82	59 - 134
Carbon tetrachloride	25.0	26.7		ug/L		107	72 - 134
Chlorobenzene	25.0	24.3		ug/L		97	80 - 120
Dibromochloromethane	25.0	27.6		ug/L		110	75 - 125
Chloroethane	25.0	23.7		ug/L		95	69 - 136

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

Lab Sample ID: LCS 480-685418/6
Matrix: Water
Analysis Batch: 685418

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	21.2		ug/L		85	68 - 124
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	74 - 124
Cyclohexane	25.0	24.6		ug/L		98	59 - 135
Dichlorodifluoromethane	25.0	23.2		ug/L		93	59 - 135
Ethylbenzene	25.0	24.2		ug/L		97	77 - 123
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
Isopropylbenzene	25.0	25.7		ug/L		103	77 - 122
Methyl acetate	50.0	61.0		ug/L		122	74 - 133
Methyl tert-butyl ether	25.0	26.9		ug/L		108	77 - 120
Methylcyclohexane	25.0	24.9		ug/L		100	68 - 134
Methylene Chloride	25.0	26.1		ug/L		104	75 - 124
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	24.6		ug/L		98	74 - 122
Toluene	25.0	24.4		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	80 - 120
Trichloroethene	25.0	25.0		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	24.2		ug/L		97	62 - 150
Vinyl chloride	25.0	24.7		ug/L		99	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Lab Sample ID: MB 480-685822/8
Matrix: Water
Analysis Batch: 685822

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 17:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 17:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 17:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 17:31	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 17:31	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 17:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 17:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 17:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 17:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 17:31	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 17:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 17:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 17:31	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 17:31	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 17:31	1

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

Lab Sample ID: MB 480-685822/8
Matrix: Water
Analysis Batch: 685822

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 17:31	1
Acetone	10	U	10	3.0	ug/L			10/02/23 17:31	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 17:31	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 17:31	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 17:31	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 17:31	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 17:31	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 17:31	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 17:31	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 17:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 17:31	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 17:31	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 17:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 17:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 17:31	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 17:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 17:31	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 17:31	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 17:31	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 17:31	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 17:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 17:31	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 17:31	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 17:31	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 17:31	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 17:31	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 17:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 17:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 17:31	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 17:31	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 17:31	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 17:31	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/02/23 17:31*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*10/02/23 17:31*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/02/23 17:31*	*1*

Lab Sample ID: LCS 480-685822/6
Matrix: Water
Analysis Batch: 685822

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.8		ug/L		107	76 - 120
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	76 - 122

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

Lab Sample ID: LCS 480-685822/6
Matrix: Water
Analysis Batch: 685822

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.2		ug/L		105	61 - 148
1,1-Dichloroethane	25.0	24.1		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	26.3		ug/L		105	66 - 127
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	28.6		ug/L		114	56 - 134
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	22.8		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	25.5		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Butanone (MEK)	125	138		ug/L		111	57 - 140
2-Hexanone	125	157		ug/L		126	65 - 127
4-Methyl-2-pentanone (MIBK)	125	143		ug/L		114	71 - 125
Acetone	125	128		ug/L		103	56 - 142
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromodichloromethane	25.0	25.7		ug/L		103	80 - 122
Bromoform	25.0	31.1		ug/L		125	61 - 132
Bromomethane	25.0	21.1		ug/L		84	55 - 144
Carbon disulfide	25.0	26.5		ug/L		106	59 - 134
Carbon tetrachloride	25.0	26.4		ug/L		106	72 - 134
Chlorobenzene	25.0	25.0		ug/L		100	80 - 120
Dibromochloromethane	25.0	28.3		ug/L		113	75 - 125
Chloroethane	25.0	21.0		ug/L		84	69 - 136
Chloroform	25.0	22.7		ug/L		91	73 - 127
Chloromethane	25.0	21.4		ug/L		86	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	74 - 124
Cyclohexane	25.0	26.8		ug/L		107	59 - 135
Dichlorodifluoromethane	25.0	24.3		ug/L		97	59 - 135
Ethylbenzene	25.0	25.9		ug/L		104	77 - 123
1,2-Dibromoethane	25.0	26.8		ug/L		107	77 - 120
Isopropylbenzene	25.0	24.6		ug/L		98	77 - 122
Methyl acetate	50.0	52.8		ug/L		106	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	25.3		ug/L		101	68 - 134
Methylene Chloride	25.0	23.5		ug/L		94	75 - 124
Styrene	25.0	25.6		ug/L		103	80 - 120
Tetrachloroethene	25.0	24.3		ug/L		97	74 - 122
Toluene	25.0	24.6		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	27.8		ug/L		111	80 - 120
Trichloroethene	25.0	23.9		ug/L		95	74 - 123
Trichlorofluoromethane	25.0	25.0		ug/L		100	62 - 150
Vinyl chloride	25.0	22.9		ug/L		91	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: LCS 480-685822/6
Matrix: Water
Analysis Batch: 685822

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-685202/3
Matrix: Water
Analysis Batch: 685202

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 10:51	1

Lab Sample ID: LCS 480-685202/4
Matrix: Water
Analysis Batch: 685202

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane			36.5	41.6		ug/L		114	79 - 120		

Lab Sample ID: 480-213061-2 MS
Matrix: Water
Analysis Batch: 685202

Client Sample ID: SW-B-09252023-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane	7.5	U	36.5	37.8		ug/L		103	76 - 125		

Lab Sample ID: 480-213061-2 MSD
Matrix: Water
Analysis Batch: 685202

Client Sample ID: SW-B-09252023-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	7.5	U	36.5	36.7		ug/L		100	76 - 125	3	50

Lab Sample ID: MB 480-685350/3
Matrix: Water
Analysis Batch: 685350

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 10:02	1

Lab Sample ID: LCS 480-685350/4
Matrix: Water
Analysis Batch: 685350

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane			36.5	36.6		ug/L		100	79 - 120		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 480-685350/5
Matrix: Water
Analysis Batch: 685350

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane			36.5	37.1		ug/L		102	79 - 120	1	50

Lab Sample ID: 480-213117-5 MS
Matrix: Water
Analysis Batch: 685350

Client Sample ID: GW-10S-09262023-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane	7.5	U	36.5	34.2		ug/L		94	76 - 125		

Lab Sample ID: 480-213117-5 MSD
Matrix: Water
Analysis Batch: 685350

Client Sample ID: GW-10S-09262023-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	7.5	U	36.5	36.5		ug/L		100	76 - 125	7	50

Lab Sample ID: MB 480-685513/3
Matrix: Water
Analysis Batch: 685513

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 07:46	1

Lab Sample ID: LCS 480-685513/4
Matrix: Water
Analysis Batch: 685513

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane			36.5	40.4		ug/L		110	79 - 120		

Lab Sample ID: LCSD 480-685513/5
Matrix: Water
Analysis Batch: 685513

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane			36.5	33.9		ug/L		93	79 - 120	17	50

Lab Sample ID: MB 480-686019/3
Matrix: Water
Analysis Batch: 686019

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 07:41	1

Lab Sample ID: LCS 480-686019/4
Matrix: Water
Analysis Batch: 686019

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethane			36.5	40.4		ug/L		111	79 - 120		

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: LCSD 480-686019/5
Matrix: Water
Analysis Batch: 686019

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane			36.5	38.0		ug/L		104	79 - 120	6	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-685101/1-A
Matrix: Water
Analysis Batch: 686781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0040	U	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 19:32	1

Lab Sample ID: LCS 480-685101/2-A
Matrix: Water
Analysis Batch: 686781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685101

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			0.200	0.210		mg/L		105	80 - 120		

Lab Sample ID: 480-213061-2 MS
Matrix: Water
Analysis Batch: 686781

Client Sample ID: SW-B-09252023-MS
Prep Type: Total/NA
Prep Batch: 685101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium	0.0014	J	0.200	0.207		mg/L		103	75 - 125		

Lab Sample ID: 480-213061-2 MSD
Matrix: Water
Analysis Batch: 686781

Client Sample ID: SW-B-09252023-MSD
Prep Type: Total/NA
Prep Batch: 685101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	0.0014	J	0.200	0.219		mg/L		109	75 - 125	6	20

Lab Sample ID: MB 480-685462/1-A
Matrix: Water
Analysis Batch: 686584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0040	U	0.0040	0.0010	mg/L		09/29/23 08:13	10/08/23 14:58	1

Lab Sample ID: LCS 480-685462/2-A
Matrix: Water
Analysis Batch: 686584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685462

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			0.200	0.215		mg/L		108	80 - 120		

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-685055/3
Matrix: Water
Analysis Batch: 685055

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U	0.010	0.0050	mg/L			09/26/23 12:24	1

Lab Sample ID: LCS 480-685055/4
Matrix: Water
Analysis Batch: 685055

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.0500	0.0535		mg/L		107	85 - 115

Lab Sample ID: 480-213061-2 MS
Matrix: Water
Analysis Batch: 685055

Client Sample ID: SW-B-09252023-MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.010	U	0.0500	0.0522		mg/L		104	85 - 115

Lab Sample ID: 480-213061-2 MSD
Matrix: Water
Analysis Batch: 685055

Client Sample ID: SW-B-09252023-MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.010	U	0.0500	0.0484		mg/L		97	85 - 115	8	20

Lab Sample ID: MB 480-685263/3
Matrix: Water
Analysis Batch: 685263

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U	0.010	0.0050	mg/L			09/27/23 14:16	1

Lab Sample ID: LCS 480-685263/4
Matrix: Water
Analysis Batch: 685263

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.0500	0.0509		mg/L		102	85 - 115

Lab Sample ID: 480-213117-7 MS
Matrix: Water
Analysis Batch: 685263

Client Sample ID: GW-M-27D-09262023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.0092	J	0.0500	0.0573		mg/L		96	85 - 115

Lab Sample ID: 480-213117-7 DU
Matrix: Water
Analysis Batch: 685263

Client Sample ID: GW-M-27D-09262023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	0.0092	J	0.00796	J	mg/L		15	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 685071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213061-1	GW-13D-09252023	Total/NA	Water	8260C	
480-213061-3	FD-1-09252023	Total/NA	Water	8260C	
480-213061-4	EB-1-09252023	Total/NA	Water	8260C	
480-213061-5	TB-1-09252023	Total/NA	Water	8260C	
MB 480-685071/9	Method Blank	Total/NA	Water	8260C	
LCS 480-685071/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 685139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213061-2	SW-B-09252023	Total/NA	Water	8260C	
MB 480-685139/9	Method Blank	Total/NA	Water	8260C	
LCS 480-685139/6	Lab Control Sample	Total/NA	Water	8260C	
480-213061-2 MS	SW-B-09252023-MS	Total/NA	Water	8260C	
480-213061-2 MSD	SW-B-09252023-MSD	Total/NA	Water	8260C	

Analysis Batch: 685187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213117-1	GW-M-26S-09262023	Total/NA	Water	8260C	
480-213117-2	GW-M-26D-09262023	Total/NA	Water	8260C	
480-213117-3	GW-11D-09262023	Total/NA	Water	8260C	
480-213117-4	DUP-2-09262023	Total/NA	Water	8260C	
480-213117-5	GW-10S-09262023	Total/NA	Water	8260C	
480-213117-6	GW-13S-09262023	Total/NA	Water	8260C	
480-213117-7	GW-M-27D-09262023	Total/NA	Water	8260C	
480-213117-8	EB-2-09262023	Total/NA	Water	8260C	
480-213117-9	TB-2-09262023	Total/NA	Water	8260C	
MB 480-685187/9	Method Blank	Total/NA	Water	8260C	
LCS 480-685187/7	Lab Control Sample	Total/NA	Water	8260C	
480-213117-5 MS	GW-10S-09262023-MS	Total/NA	Water	8260C	
480-213117-5 MSD	GW-10S-09262023-MSD	Total/NA	Water	8260C	

Analysis Batch: 685418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213168-1	SW-D-09272023	Total/NA	Water	8260C	
480-213168-2	GW-M-28S-09272023	Total/NA	Water	8260C	
480-213168-3	GW-M-29S-09272023	Total/NA	Water	8260C	
480-213168-4	GW-MW-4-09272023	Total/NA	Water	8260C	
480-213168-5	GW-M-29D-09272023	Total/NA	Water	8260C	
480-213168-6	GW-M-25D-09272023	Total/NA	Water	8260C	
480-213168-7	GW-M-25S-09272023	Total/NA	Water	8260C	
480-213168-8	GW-M-1-09272023	Total/NA	Water	8260C	
480-213168-9	GW-M-28D-0929023	Total/NA	Water	8260C	
480-213168-10	EB-3-09272023	Total/NA	Water	8260C	
480-213168-11	TB-3-09272023	Total/NA	Water	8260C	
MB 480-685418/8	Method Blank	Total/NA	Water	8260C	
LCS 480-685418/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 685822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213196-1	GW-4S-09282023	Total/NA	Water	8260C	
480-213196-2	GW-4D-09282023	Total/NA	Water	8260C	

GC/MS VOA (Continued)

Analysis Batch: 685822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213196-3	GW-M-24DR-09282023	Total/NA	Water	8260C	
480-213196-4	GW-DGC-4S-09282023	Total/NA	Water	8260C	
480-213196-5	SW-F-09282023	Total/NA	Water	8260C	
480-213196-6	SW-A-09282023	Total/NA	Water	8260C	
480-213196-7	SW-E-09282023	Total/NA	Water	8260C	
480-213196-8	SW-G-09282023	Total/NA	Water	8260C	
480-213196-9	EB-4-09282023	Total/NA	Water	8260C	
480-213196-10	TB-4-09282023	Total/NA	Water	8260C	
MB 480-685822/8	Method Blank	Total/NA	Water	8260C	
LCS 480-685822/6	Lab Control Sample	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 685202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213061-1	GW-13D-09252023	Total/NA	Water	RSK-175	
480-213061-2	SW-B-09252023	Total/NA	Water	RSK-175	
480-213061-3	FD-1-09252023	Total/NA	Water	RSK-175	
480-213061-4	EB-1-09252023	Total/NA	Water	RSK-175	
MB 480-685202/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-685202/4	Lab Control Sample	Total/NA	Water	RSK-175	
480-213061-2 MS	SW-B-09252023-MS	Total/NA	Water	RSK-175	
480-213061-2 MSD	SW-B-09252023-MSD	Total/NA	Water	RSK-175	

Analysis Batch: 685350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213117-1	GW-M-26S-09262023	Total/NA	Water	RSK-175	
480-213117-2	GW-M-26D-09262023	Total/NA	Water	RSK-175	
480-213117-3	GW-11D-09262023	Total/NA	Water	RSK-175	
480-213117-4	DUP-2-09262023	Total/NA	Water	RSK-175	
480-213117-5	GW-10S-09262023	Total/NA	Water	RSK-175	
480-213117-6	GW-13S-09262023	Total/NA	Water	RSK-175	
480-213117-7	GW-M-27D-09262023	Total/NA	Water	RSK-175	
480-213117-8	EB-2-09262023	Total/NA	Water	RSK-175	
MB 480-685350/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-685350/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-685350/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	
480-213117-5 MS	GW-10S-09262023-MS	Total/NA	Water	RSK-175	
480-213117-5 MSD	GW-10S-09262023-MSD	Total/NA	Water	RSK-175	

Analysis Batch: 685513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213168-1	SW-D-09272023	Total/NA	Water	RSK-175	
480-213168-2	GW-M-28S-09272023	Total/NA	Water	RSK-175	
480-213168-3	GW-M-29S-09272023	Total/NA	Water	RSK-175	
480-213168-4	GW-MW-4-09272023	Total/NA	Water	RSK-175	
480-213168-5	GW-M-29D-09272023	Total/NA	Water	RSK-175	
480-213168-6	GW-M-25D-09272023	Total/NA	Water	RSK-175	
480-213168-7	GW-M-25S-09272023	Total/NA	Water	RSK-175	
480-213168-8	GW-M-1-09272023	Total/NA	Water	RSK-175	
480-213168-9	GW-M-28D-0929023	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 685513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213168-10	EB-3-09272023	Total/NA	Water	RSK-175	
MB 480-685513/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-685513/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-685513/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 686019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213196-1	GW-4S-09282023	Total/NA	Water	RSK-175	
480-213196-2	GW-4D-09282023	Total/NA	Water	RSK-175	
480-213196-3	GW-M-24DR-09282023	Total/NA	Water	RSK-175	
480-213196-4	GW-DGC-4S-09282023	Total/NA	Water	RSK-175	
480-213196-5	SW-F-09282023	Total/NA	Water	RSK-175	
480-213196-6	SW-A-09282023	Total/NA	Water	RSK-175	
480-213196-7	SW-E-09282023	Total/NA	Water	RSK-175	
480-213196-8	SW-G-09282023	Total/NA	Water	RSK-175	
480-213196-9	EB-4-09282023	Total/NA	Water	RSK-175	
MB 480-686019/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-686019/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-686019/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 685101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213061-1	GW-13D-09252023	Total/NA	Water	3005A	
480-213061-2	SW-B-09252023	Total/NA	Water	3005A	
480-213061-3	FD-1-09252023	Total/NA	Water	3005A	
480-213061-4	EB-1-09252023	Total/NA	Water	3005A	
MB 480-685101/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-685101/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-213061-2 MS	SW-B-09252023-MS	Total/NA	Water	3005A	
480-213061-2 MSD	SW-B-09252023-MSD	Total/NA	Water	3005A	

Prep Batch: 685462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213117-7	GW-M-27D-09262023	Total/NA	Water	3005A	
MB 480-685462/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-685462/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 686584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213117-7	GW-M-27D-09262023	Total/NA	Water	6010C	685462
MB 480-685462/1-A	Method Blank	Total/NA	Water	6010C	685462
LCS 480-685462/2-A	Lab Control Sample	Total/NA	Water	6010C	685462

Analysis Batch: 686781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213061-1	GW-13D-09252023	Total/NA	Water	6010C	685101
480-213061-2	SW-B-09252023	Total/NA	Water	6010C	685101
480-213061-3	FD-1-09252023	Total/NA	Water	6010C	685101
480-213061-4	EB-1-09252023	Total/NA	Water	6010C	685101

Metals (Continued)

Analysis Batch: 686781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-685101/1-A	Method Blank	Total/NA	Water	6010C	685101
LCS 480-685101/2-A	Lab Control Sample	Total/NA	Water	6010C	685101
480-213061-2 MS	SW-B-09252023-MS	Total/NA	Water	6010C	685101
480-213061-2 MSD	SW-B-09252023-MSD	Total/NA	Water	6010C	685101

General Chemistry

Analysis Batch: 685055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213061-1	GW-13D-09252023	Total/NA	Water	7196A	
480-213061-2	SW-B-09252023	Total/NA	Water	7196A	
480-213061-3	FD-1-09252023	Total/NA	Water	7196A	
480-213061-4	EB-1-09252023	Total/NA	Water	7196A	
MB 480-685055/3	Method Blank	Total/NA	Water	7196A	
LCS 480-685055/4	Lab Control Sample	Total/NA	Water	7196A	
480-213061-2 MS	SW-B-09252023-MS	Total/NA	Water	7196A	
480-213061-2 MSD	SW-B-09252023-MSD	Total/NA	Water	7196A	

Analysis Batch: 685263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213117-7	GW-M-27D-09262023	Total/NA	Water	7196A	
MB 480-685263/3	Method Blank	Total/NA	Water	7196A	
LCS 480-685263/4	Lab Control Sample	Total/NA	Water	7196A	
480-213117-7 MS	GW-M-27D-09262023	Total/NA	Water	7196A	
480-213117-7 DU	GW-M-27D-09262023	Total/NA	Water	7196A	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-13D-09252023
Date Collected: 09/25/23 16:25
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685071	ZN	EET BUF	09/27/23 00:32
Total/NA	Analysis	RSK-175		1	685202	MAN	EET BUF	09/27/23 11:50
Total/NA	Prep	3005A			685101	MP	EET BUF	09/27/23 08:17
Total/NA	Analysis	6010C		1	686781	LMH	EET BUF	10/09/23 19:50
Total/NA	Analysis	7196A		1	685055	GW	EET BUF	09/26/23 12:24

Client Sample ID: SW-B-09252023
Date Collected: 09/25/23 13:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685139	ZN	EET BUF	09/27/23 16:11
Total/NA	Analysis	RSK-175		1	685202	MAN	EET BUF	09/27/23 11:31
Total/NA	Prep	3005A			685101	MP	EET BUF	09/27/23 08:17
Total/NA	Analysis	6010C		1	686781	LMH	EET BUF	10/09/23 19:54
Total/NA	Analysis	7196A		1	685055	GW	EET BUF	09/26/23 12:24

Client Sample ID: FD-1-09252023
Date Collected: 09/25/23 00:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685071	ZN	EET BUF	09/27/23 01:16
Total/NA	Analysis	RSK-175		1	685202	MAN	EET BUF	09/27/23 12:09
Total/NA	Prep	3005A			685101	MP	EET BUF	09/27/23 08:17
Total/NA	Analysis	6010C		1	686781	LMH	EET BUF	10/09/23 20:11
Total/NA	Analysis	7196A		1	685055	GW	EET BUF	09/26/23 12:24

Client Sample ID: EB-1-09252023
Date Collected: 09/25/23 00:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685071	ZN	EET BUF	09/27/23 01:38
Total/NA	Analysis	RSK-175		1	685202	MAN	EET BUF	09/27/23 12:28
Total/NA	Prep	3005A			685101	MP	EET BUF	09/27/23 08:17
Total/NA	Analysis	6010C		1	686781	LMH	EET BUF	10/09/23 20:15
Total/NA	Analysis	7196A		1	685055	GW	EET BUF	09/26/23 12:24

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-1-09252023
Date Collected: 09/25/23 15:25
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685071	ZN	EET BUF	09/27/23 02:00

Client Sample ID: GW-M-26S-09262023
Date Collected: 09/26/23 09:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 18:00
Total/NA	Analysis	RSK-175		1	685350	MAN	EET BUF	09/28/23 12:14

Client Sample ID: GW-M-26D-09262023
Date Collected: 09/26/23 09:50
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 18:24
Total/NA	Analysis	RSK-175		1	685350	MAN	EET BUF	09/28/23 12:33

Client Sample ID: GW-11D-09262023
Date Collected: 09/26/23 11:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 18:49
Total/NA	Analysis	RSK-175		1	685350	MAN	EET BUF	09/28/23 12:52

Client Sample ID: DUP-2-09262023
Date Collected: 09/26/23 00:00
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 19:13
Total/NA	Analysis	RSK-175		1	685350	MAN	EET BUF	09/28/23 13:11

Client Sample ID: GW-10S-09262023
Date Collected: 09/26/23 13:25
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 19:37
Total/NA	Analysis	RSK-175		1	685350	MAN	EET BUF	09/28/23 13:30

Client Sample ID: GW-13S-09262023
Lab Sample ID: 480-213117-6
Date Collected: 09/26/23 15:05
Matrix: Water
Date Received: 09/27/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 20:02
Total/NA	Analysis	RSK-175		1	685350	MAN	EET BUF	09/28/23 13:48

Client Sample ID: GW-M-27D-09262023
Lab Sample ID: 480-213117-7
Date Collected: 09/26/23 16:30
Matrix: Water
Date Received: 09/27/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 20:27
Total/NA	Analysis	RSK-175		1	685350	MAN	EET BUF	09/28/23 14:07
Total/NA	Prep	3005A			685462	MP	EET BUF	09/29/23 08:13
Total/NA	Analysis	6010C		1	686584	LMH	EET BUF	10/08/23 16:29
Total/NA	Analysis	7196A		1	685263	GW	EET BUF	09/27/23 14:16

Client Sample ID: EB-2-09262023
Lab Sample ID: 480-213117-8
Date Collected: 09/26/23 00:00
Matrix: Water
Date Received: 09/27/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 20:51
Total/NA	Analysis	RSK-175		1	685350	MAN	EET BUF	09/28/23 14:26

Client Sample ID: TB-2-09262023
Lab Sample ID: 480-213117-9
Date Collected: 09/26/23 16:45
Matrix: Water
Date Received: 09/27/23 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685187	AXK	EET BUF	09/27/23 21:15

Client Sample ID: SW-D-09272023
Lab Sample ID: 480-213168-1
Date Collected: 09/27/23 16:00
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 04:29
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 08:44

Client Sample ID: GW-M-28S-09272023
Lab Sample ID: 480-213168-2
Date Collected: 09/27/23 14:05
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 04:53
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 09:03

Client Sample ID: GW-M-29S-09272023
Lab Sample ID: 480-213168-3

Date Collected: 09/27/23 12:45
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 05:18
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 09:21

Client Sample ID: GW-MW-4-09272023
Lab Sample ID: 480-213168-4

Date Collected: 09/27/23 11:05
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 05:42
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 09:40

Client Sample ID: GW-M-29D-09272023
Lab Sample ID: 480-213168-5

Date Collected: 09/27/23 12:40
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 06:07
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 09:59

Client Sample ID: GW-M-25D-09272023
Lab Sample ID: 480-213168-6

Date Collected: 09/27/23 15:20
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 06:31
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 10:18

Client Sample ID: GW-M-25S-09272023
Lab Sample ID: 480-213168-7

Date Collected: 09/27/23 15:20
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 06:56
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 10:37

Client Sample ID: GW-M-1-09272023
Lab Sample ID: 480-213168-8

Date Collected: 09/27/23 09:55
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 07:20
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 10:56

Client Sample ID: GW-M-28D-0929023
Lab Sample ID: 480-213168-9
Date Collected: 09/27/23 13:55
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 07:45
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 11:15

Client Sample ID: EB-3-09272023
Lab Sample ID: 480-213168-10
Date Collected: 09/27/23 00:00
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 08:09
Total/NA	Analysis	RSK-175		1	685513	MAN	EET BUF	09/29/23 11:33

Client Sample ID: TB-3-09272023
Lab Sample ID: 480-213168-11
Date Collected: 09/27/23 16:45
Matrix: Water
Date Received: 09/28/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685418	LCH	EET BUF	09/29/23 08:33

Client Sample ID: GW-4S-09282023
Lab Sample ID: 480-213196-1
Date Collected: 09/28/23 08:50
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 17:56
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 08:38

Client Sample ID: GW-4D-09282023
Lab Sample ID: 480-213196-2
Date Collected: 09/28/23 08:55
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 18:19
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 08:57

Client Sample ID: GW-M-24DR-09282023
Lab Sample ID: 480-213196-3
Date Collected: 09/28/23 11:00
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 18:41
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 09:16

Client Sample ID: GW-DGC-4S-09282023
Lab Sample ID: 480-213196-4
Date Collected: 09/28/23 10:45
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 19:03
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 09:35

Client Sample ID: SW-F-09282023
Lab Sample ID: 480-213196-5
Date Collected: 09/28/23 12:50
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 19:25
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 09:53

Client Sample ID: SW-A-09282023
Lab Sample ID: 480-213196-6
Date Collected: 09/28/23 11:35
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 19:47
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 10:12

Client Sample ID: SW-E-09282023
Lab Sample ID: 480-213196-7
Date Collected: 09/28/23 12:30
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 20:09
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 10:31

Client Sample ID: SW-G-09282023
Lab Sample ID: 480-213196-8
Date Collected: 09/28/23 12:00
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 20:31
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 10:50

Client Sample ID: EB-4-09282023
Lab Sample ID: 480-213196-9
Date Collected: 09/28/23 00:00
Matrix: Water
Date Received: 09/29/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 20:53
Total/NA	Analysis	RSK-175		1	686019	MAN	EET BUF	10/04/23 11:09

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-4-09282023

Date Collected: 09/28/23 15:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	685822	AXK	EET BUF	10/02/23 21:15

Laboratory References:

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

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
GW-13D-09252023	480-213061-1	98	97	97	105
SW-B-09252023	480-213061-2	98	96	97	104
FD-1-09252023	480-213061-3	99	98	99	102
EB-1-09252023	480-213061-4	98	98	97	102
TB-1-09252023	480-213061-5	98	98	96	102
GW-M-26S-09262023	480-213117-1	103	101	110	109
GW-M-26D-09262023	480-213117-2	102	98	102	97
GW-11D-09262023	480-213117-3	102	103	103	100
DUP-2-09262023	480-213117-4	96	99	98	97
GW-10S-09262023	480-213117-5	102	103	102	97
GW-13S-09262023	480-213117-6	105	103	104	101
GW-M-27D-09262023	480-213117-7	103	102	105	103
EB-2-09262023	480-213117-8	101	101	104	105
TB-2-09262023	480-213117-9	100	101	97	92
SW-D-09272023	480-213168-1	101	103	102	105
GW-M-28S-09272023	480-213168-2	100	100	100	99
GW-M-29S-09272023	480-213168-3	103	103	103	102
GW-MW-4-09272023	480-213168-4	104	105	103	97
GW-M-29D-09272023	480-213168-5	107	108	108	108
GW-M-25D-09272023	480-213168-6	101	101	96	97
GW-M-25S-09272023	480-213168-7	100	103	103	105
GW-M-1-09272023	480-213168-8	102	101	98	92
GW-M-28D-0929023	480-213168-9	106	103	106	106
EB-3-09272023	480-213168-10	105	103	102	102
TB-3-09272023	480-213168-11	102	102	100	97
GW-4S-09282023	480-213196-1	96	96	97	103
GW-4D-09282023	480-213196-2	97	96	95	101
GW-M-24DR-09282023	480-213196-3	97	97	98	106
GW-DGC-4S-09282023	480-213196-4	97	97	96	100
SW-F-09282023	480-213196-5	96	95	96	105
SW-A-09282023	480-213196-6	98	96	96	103
SW-E-09282023	480-213196-7	98	97	97	102
SW-G-09282023	480-213196-8	97	99	94	100
EB-4-09282023	480-213196-9	98	99	96	100

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

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
TB-4-09282023	480-213196-10	96	96	94	101
	MB 480-685071/9	94	94	96	102
	MB 480-685139/9	96	97	98	100
	MB 480-685187/9	97	98	99	102
	MB 480-685418/8	101	101	101	100
	MB 480-685822/8	96	95	96	102
	LCS 480-685071/6	96	93	98	103
	LCS 480-685139/6	96	94	99	104
	LCS 480-685187/7	102	100	97	96
	LCS 480-685418/6	107	113	102	101
	LCS 480-685822/6	94	95	96	100
SW-B-09252023-MS MS	480-213061-2 MS	95	93	98	104
GW-10S-09262023-MS MS	480-213117-5 MS	104	101	99	96
SW-B-09252023-MSD MSD	480-213061-2 MSD	95	92	97	103
GW-10S-09262023-MS D MSD	480-213117-5 MSD	108	102	105	104

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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4238.d

Lab ID: LCS 480-685071/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.6	110	73-126	
1,1,2,2-Tetrachloroethane	25.0	27.4	110	76-120	
1,1,2-Trichloroethane	25.0	28.1	112	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.8	111	61-148	
1,1-Dichloroethane	25.0	25.6	102	77-120	
1,1-Dichloroethene	25.0	28.7	115	66-127	
1,2,4-Trichlorobenzene	25.0	24.6	99	79-122	
1,2-Dibromo-3-Chloropropane	25.0	28.2	113	56-134	
1,2-Dichlorobenzene	25.0	25.8	103	80-124	
1,2-Dichloroethane	25.0	24.3	97	75-120	
1,2-Dichloropropane	25.0	27.2	109	76-120	
1,3-Dichlorobenzene	25.0	27.0	108	77-120	
1,4-Dichlorobenzene	25.0	26.7	107	80-120	
2-Butanone (MEK)	125	140	112	57-140	
2-Hexanone	125	161	128	65-127	*+
4-Methyl-2-pentanone (MIBK)	125	147	117	71-125	
Acetone	125	125	100	56-142	
Benzene	25.0	26.4	105	71-124	
Bromodichloromethane	25.0	27.5	110	80-122	
Bromoform	25.0	33.0	132	61-132	
Bromomethane	25.0	23.5	94	55-144	
Carbon disulfide	25.0	28.3	113	59-134	
Carbon tetrachloride	25.0	29.8	119	72-134	
Chlorobenzene	25.0	27.1	108	80-120	
Dibromochloromethane	25.0	30.1	120	75-125	
Chloroethane	25.0	23.0	92	69-136	
Chloroform	25.0	24.7	99	73-127	
Chloromethane	25.0	21.9	87	68-124	
cis-1,2-Dichloroethene	25.0	25.7	103	74-124	
cis-1,3-Dichloropropene	25.0	28.1	112	74-124	
Cyclohexane	25.0	28.7	115	59-135	
Dichlorodifluoromethane	25.0	21.8	87	59-135	
Ethylbenzene	25.0	28.5	114	77-123	
1,2-Dibromoethane	25.0	28.2	113	77-120	
Isopropylbenzene	25.0	26.5	106	77-122	
Methyl acetate	50.0	53.3	107	74-133	
Methyl tert-butyl ether	25.0	24.6	98	77-120	
Methylcyclohexane	25.0	27.9	111	68-134	
Methylene Chloride	25.0	25.6	102	75-124	
Styrene	25.0	28.1	112	80-120	
Tetrachloroethene	25.0	27.6	111	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4238.d

Lab ID: LCS 480-685071/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	27.3	109	80-122	
trans-1,2-Dichloroethene	25.0	26.5	106	73-127	
trans-1,3-Dichloropropene	25.0	29.3	117	80-120	
Trichloroethene	25.0	26.5	106	74-123	
Trichlorofluoromethane	25.0	27.1	109	62-150	
Vinyl chloride	25.0	24.2	97	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4257.d

Lab ID: LCS 480-685139/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.9	112	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.3	105	76-120	
1,1,2-Trichloroethane	25.0	26.3	105	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.7	115	61-148	
1,1-Dichloroethane	25.0	26.0	104	77-120	
1,1-Dichloroethene	25.0	28.6	114	66-127	
1,2,4-Trichlorobenzene	25.0	24.9	100	79-122	
1,2-Dibromo-3-Chloropropane	25.0	25.7	103	56-134	
1,2-Dichlorobenzene	25.0	26.2	105	80-124	
1,2-Dichloroethane	25.0	23.5	94	75-120	
1,2-Dichloropropane	25.0	26.7	107	76-120	
1,3-Dichlorobenzene	25.0	26.6	107	77-120	
1,4-Dichlorobenzene	25.0	26.6	106	80-120	
2-Butanone (MEK)	125	132	105	57-140	
2-Hexanone	125	137	110	65-127	
4-Methyl-2-pentanone (MIBK)	125	132	106	71-125	
Acetone	125	128	103	56-142	
Benzene	25.0	26.6	106	71-124	
Bromodichloromethane	25.0	27.3	109	80-122	
Bromoform	25.0	31.5	126	61-132	
Bromomethane	25.0	24.5	98	55-144	
Carbon disulfide	25.0	28.9	116	59-134	
Carbon tetrachloride	25.0	29.1	117	72-134	
Chlorobenzene	25.0	27.1	109	80-120	
Dibromochloromethane	25.0	29.8	119	75-125	
Chloroethane	25.0	23.1	93	69-136	
Chloroform	25.0	25.0	100	73-127	
Chloromethane	25.0	21.5	86	68-124	
cis-1,2-Dichloroethene	25.0	26.4	105	74-124	
cis-1,3-Dichloropropene	25.0	28.3	113	74-124	
Cyclohexane	25.0	28.8	115	59-135	
Dichlorodifluoromethane	25.0	21.7	87	59-135	
Ethylbenzene	25.0	28.5	114	77-123	
1,2-Dibromoethane	25.0	27.3	109	77-120	
Isopropylbenzene	25.0	27.4	110	77-122	
Methyl acetate	50.0	50.7	101	74-133	
Methyl tert-butyl ether	25.0	24.6	98	77-120	
Methylcyclohexane	25.0	27.8	111	68-134	
Methylene Chloride	25.0	25.5	102	75-124	
Styrene	25.0	27.9	112	80-120	
Tetrachloroethene	25.0	27.2	109	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4257.d

Lab ID: LCS 480-685139/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	27.5	110	80-122	
trans-1,2-Dichloroethene	25.0	26.5	106	73-127	
trans-1,3-Dichloropropene	25.0	29.3	117	80-120	
Trichloroethene	25.0	26.6	106	74-123	
Trichlorofluoromethane	25.0	27.2	109	62-150	
Vinyl chloride	25.0	24.6	98	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: L1012.D

Lab ID: LCS 480-685187/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.0	104	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.6	94	76-120	
1,1,2-Trichloroethane	25.0	24.5	98	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.9	108	61-148	
1,1-Dichloroethane	25.0	25.1	100	77-120	
1,1-Dichloroethene	25.0	26.1	104	66-127	
1,2,4-Trichlorobenzene	25.0	23.4	94	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.3	93	56-134	
1,2-Dichlorobenzene	25.0	23.7	95	80-124	
1,2-Dichloroethane	25.0	24.6	99	75-120	
1,2-Dichloropropane	25.0	25.2	101	76-120	
1,3-Dichlorobenzene	25.0	24.4	98	77-120	
1,4-Dichlorobenzene	25.0	24.1	96	80-120	
2-Butanone (MEK)	125	105	84	57-140	
2-Hexanone	125	104	83	65-127	
4-Methyl-2-pentanone (MIBK)	125	103	83	71-125	
Acetone	125	117	93	56-142	
Benzene	25.0	25.0	100	71-124	
Bromodichloromethane	25.0	26.5	106	80-122	
Bromoform	25.0	22.4	90	61-132	
Bromomethane	25.0	24.5	98	55-144	
Carbon disulfide	25.0	23.4	93	59-134	
Carbon tetrachloride	25.0	27.9	112	72-134	
Chlorobenzene	25.0	24.2	97	80-120	
Dibromochloromethane	25.0	27.2	109	75-125	
Chloroethane	25.0	25.4	101	69-136	
Chloroform	25.0	24.6	98	73-127	
Chloromethane	25.0	23.4	94	68-124	
cis-1,2-Dichloroethene	25.0	25.1	101	74-124	
cis-1,3-Dichloropropene	25.0	26.4	105	74-124	
Cyclohexane	25.0	26.0	104	59-135	
Dichlorodifluoromethane	25.0	25.6	102	59-135	
Ethylbenzene	25.0	24.3	97	77-123	
1,2-Dibromoethane	25.0	24.3	97	77-120	
Isopropylbenzene	25.0	25.4	102	77-122	
Methyl acetate	50.0	43.8	88	74-133	
Methyl tert-butyl ether	25.0	24.5	98	77-120	
Methylcyclohexane	25.0	26.3	105	68-134	
Methylene Chloride	25.0	25.5	102	75-124	
Styrene	25.0	24.7	99	80-120	
Tetrachloroethene	25.0	24.7	99	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: L1012.D

Lab ID: LCS 480-685187/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.4	98	80-122	
trans-1,2-Dichloroethene	25.0	25.3	101	73-127	
trans-1,3-Dichloropropene	25.0	25.9	104	80-120	
Trichloroethene	25.0	25.6	103	74-123	
Trichlorofluoromethane	25.0	24.5	98	62-150	
Vinyl chloride	25.0	26.4	106	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: L1073.D

Lab ID: LCS 480-685418/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.6	102	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.6	106	76-120	
1,1,2-Trichloroethane	25.0	25.3	101	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.3	101	61-148	
1,1-Dichloroethane	25.0	24.2	97	77-120	
1,1-Dichloroethene	25.0	24.5	98	66-127	
1,2,4-Trichlorobenzene	25.0	25.8	103	79-122	
1,2-Dibromo-3-Chloropropane	25.0	30.1	120	56-134	
1,2-Dichlorobenzene	25.0	25.2	101	80-124	
1,2-Dichloroethane	25.0	25.5	102	75-120	
1,2-Dichloropropane	25.0	24.5	98	76-120	
1,3-Dichlorobenzene	25.0	24.8	99	77-120	
1,4-Dichlorobenzene	25.0	24.9	100	80-120	
2-Butanone (MEK)	125	154	123	57-140	
2-Hexanone	125	128	102	65-127	
4-Methyl-2-pentanone (MIBK)	125	131	105	71-125	
Acetone	125	195	156	56-142	*+
Benzene	25.0	24.4	97	71-124	
Bromodichloromethane	25.0	26.6	106	80-122	
Bromoform	25.0	23.1	92	61-132	
Bromomethane	25.0	23.3	93	55-144	
Carbon disulfide	25.0	20.4	82	59-134	
Carbon tetrachloride	25.0	26.7	107	72-134	
Chlorobenzene	25.0	24.3	97	80-120	
Dibromochloromethane	25.0	27.6	110	75-125	
Chloroethane	25.0	23.7	95	69-136	
Chloroform	25.0	24.3	97	73-127	
Chloromethane	25.0	21.2	85	68-124	
cis-1,2-Dichloroethene	25.0	24.8	99	74-124	
cis-1,3-Dichloropropene	25.0	25.5	102	74-124	
Cyclohexane	25.0	24.6	98	59-135	
Dichlorodifluoromethane	25.0	23.2	93	59-135	
Ethylbenzene	25.0	24.2	97	77-123	
1,2-Dibromoethane	25.0	25.7	103	77-120	
Isopropylbenzene	25.0	25.7	103	77-122	
Methyl acetate	50.0	61.0	122	74-133	
Methyl tert-butyl ether	25.0	26.9	108	77-120	
Methylcyclohexane	25.0	24.9	100	68-134	
Methylene Chloride	25.0	26.1	104	75-124	
Styrene	25.0	24.8	99	80-120	
Tetrachloroethene	25.0	24.6	98	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: L1073.D

Lab ID: LCS 480-685418/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.4	98	80-122	
trans-1,2-Dichloroethene	25.0	24.3	97	73-127	
trans-1,3-Dichloropropene	25.0	25.8	103	80-120	
Trichloroethene	25.0	25.0	100	74-123	
Trichlorofluoromethane	25.0	24.2	97	62-150	
Vinyl chloride	25.0	24.7	99	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4456.d

Lab ID: LCS 480-685822/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.2	101	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.8	107	76-120	
1,1,2-Trichloroethane	25.0	26.0	104	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.2	105	61-148	
1,1-Dichloroethane	25.0	24.1	96	77-120	
1,1-Dichloroethene	25.0	26.3	105	66-127	
1,2,4-Trichlorobenzene	25.0	22.7	91	79-122	
1,2-Dibromo-3-Chloropropane	25.0	28.6	114	56-134	
1,2-Dichlorobenzene	25.0	23.9	96	80-124	
1,2-Dichloroethane	25.0	22.8	91	75-120	
1,2-Dichloropropane	25.0	25.5	102	76-120	
1,3-Dichlorobenzene	25.0	25.0	100	77-120	
1,4-Dichlorobenzene	25.0	24.6	98	80-120	
2-Butanone (MEK)	125	138	111	57-140	
2-Hexanone	125	157	126	65-127	
4-Methyl-2-pentanone (MIBK)	125	143	114	71-125	
Acetone	125	128	103	56-142	
Benzene	25.0	24.6	98	71-124	
Bromodichloromethane	25.0	25.7	103	80-122	
Bromoform	25.0	31.1	125	61-132	
Bromomethane	25.0	21.1	84	55-144	
Carbon disulfide	25.0	26.5	106	59-134	
Carbon tetrachloride	25.0	26.4	106	72-134	
Chlorobenzene	25.0	25.0	100	80-120	
Dibromochloromethane	25.0	28.3	113	75-125	
Chloroethane	25.0	21.0	84	69-136	
Chloroform	25.0	22.7	91	73-127	
Chloromethane	25.0	21.4	86	68-124	
cis-1,2-Dichloroethene	25.0	23.8	95	74-124	
cis-1,3-Dichloropropene	25.0	26.7	107	74-124	
Cyclohexane	25.0	26.8	107	59-135	
Dichlorodifluoromethane	25.0	24.3	97	59-135	
Ethylbenzene	25.0	25.9	104	77-123	
1,2-Dibromoethane	25.0	26.8	107	77-120	
Isopropylbenzene	25.0	24.6	98	77-122	
Methyl acetate	50.0	52.8	106	74-133	
Methyl tert-butyl ether	25.0	23.3	93	77-120	
Methylcyclohexane	25.0	25.3	101	68-134	
Methylene Chloride	25.0	23.5	94	75-124	
Styrene	25.0	25.6	103	80-120	
Tetrachloroethene	25.0	24.3	97	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4456.d

Lab ID: LCS 480-685822/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.6	98	80-122	
trans-1,2-Dichloroethene	25.0	24.0	96	73-127	
trans-1,3-Dichloropropene	25.0	27.8	111	80-120	
Trichloroethene	25.0	23.9	95	74-123	
Trichlorofluoromethane	25.0	25.0	100	62-150	
Vinyl chloride	25.0	22.9	91	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4277.d

Lab ID: 480-213061-2 MS Client ID: SW-B-09252023-MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	1.0 U	29.0	116	73-126	
1,1,2,2-Tetrachloroethane	25.0	1.0 U	27.9	111	76-120	
1,1,2-Trichloroethane	25.0	1.0 U	28.1	112	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0 U	27.8	111	61-148	
1,1-Dichloroethane	25.0	1.0 U	26.7	107	77-120	
1,1-Dichloroethene	25.0	1.0 U	30.9	123	66-127	
1,2,4-Trichlorobenzene	25.0	1.0 U	25.6	103	79-122	
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	29.0	116	56-134	
1,2-Dichlorobenzene	25.0	1.0 U	26.5	106	80-124	
1,2-Dichloroethane	25.0	1.0 U	24.8	99	75-120	
1,2-Dichloropropane	25.0	1.0 U	27.2	109	76-120	
1,3-Dichlorobenzene	25.0	1.0 U	27.8	111	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	27.4	109	78-124	
2-Butanone (MEK)	125	10 U	145	116	57-140	
2-Hexanone	125	5.0 U	164	131	65-127	F1
4-Methyl-2-pentanone (MIBK)	125	5.0 U	147	118	71-125	
Acetone	125	10 U	133	106	56-142	
Benzene	25.0	1.0 U	27.4	109	71-124	
Bromodichloromethane	25.0	1.0 U	27.4	110	80-122	
Bromoform	25.0	1.0 U	32.4	130	61-132	
Bromomethane	25.0	1.0 U	16.8	67	55-144	
Carbon disulfide	25.0	1.0 U	27.3	109	59-134	
Carbon tetrachloride	25.0	1.0 U	30.1	120	72-134	
Chlorobenzene	25.0	1.0 U	28.4	113	80-120	
Dibromochloromethane	25.0	1.0 U	30.2	121	75-125	
Chloroethane	25.0	1.0 U	19.8	79	69-136	
Chloroform	25.0	1.0 U	25.4	102	73-127	
Chloromethane	25.0	1.0 U	22.8	91	68-124	
cis-1,2-Dichloroethene	25.0	1.0 U	26.9	108	74-124	
cis-1,3-Dichloropropene	25.0	1.0 U	27.4	110	74-124	
Cyclohexane	25.0	1.0 U	28.0	112	59-135	
Dichlorodifluoromethane	25.0	1.0 U	20.7	83	59-135	
Ethylbenzene	25.0	1.0 U	29.4	118	77-123	
1,2-Dibromoethane	25.0	1.0 U	28.9	116	77-120	
Isopropylbenzene	25.0	1.0 U	27.7	111	77-122	
Methyl acetate	50.0	2.5 U	54.3	109	74-133	
Methyl tert-butyl ether	25.0	1.0 U	24.9	100	77-120	
Methylcyclohexane	25.0	1.0 U	26.6	106	68-134	
Methylene Chloride	25.0	1.0 U	26.2	105	75-124	
Styrene	25.0	1.0 U	29.1	116	80-120	
Tetrachloroethene	25.0	1.0 U	28.9	116	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4277.d

Lab ID: 480-213061-2 MS Client ID: SW-B-09252023-MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	25.0	1.0 U	28.5	114	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	27.6	110	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	29.1	116	80-120	
Trichloroethene	25.0	1.0 U	27.5	110	74-123	
Trichlorofluoromethane	25.0	1.0 U	27.3	109	62-150	
Vinyl chloride	25.0	1.0 U	27.2	109	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: L1035.D

Lab ID: 480-213117-5 MS Client ID: GW-10S-09262023-MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	1.0 U	25.7	103	73-126	
1,1,2,2-Tetrachloroethane	25.0	1.0 U	23.7	95	76-120	
1,1,2-Trichloroethane	25.0	1.0 U	23.7	95	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0 U	26.3	105	61-148	
1,1-Dichloroethane	25.0	1.0 U	24.1	96	77-120	
1,1-Dichloroethene	25.0	1.0 U	25.5	102	66-127	
1,2,4-Trichlorobenzene	25.0	1.0 U	23.0	92	79-122	
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	23.5	94	56-134	
1,2-Dichlorobenzene	25.0	1.0 U	23.3	93	80-124	
1,2-Dichloroethane	25.0	1.0 U	23.5	94	75-120	
1,2-Dichloropropane	25.0	1.0 U	23.8	95	76-120	
1,3-Dichlorobenzene	25.0	1.0 U	23.8	95	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	23.4	94	78-124	
2-Butanone (MEK)	125	10 U	104	83	57-140	
2-Hexanone	125	5.0 U	108	87	65-127	
4-Methyl-2-pentanone (MIBK)	125	5.0 U	110	88	71-125	
Acetone	125	10 U	105	84	56-142	
Benzene	25.0	1.0 U	24.3	97	71-124	
Bromodichloromethane	25.0	1.0 U	25.3	101	80-122	
Bromoform	25.0	1.0 U	19.2	77	61-132	
Bromomethane	25.0	1.0 U	26.7	107	55-144	
Carbon disulfide	25.0	1.0 U	23.6	94	59-134	
Carbon tetrachloride	25.0	0.43 J	27.1	107	72-134	
Chlorobenzene	25.0	1.0 U	24.0	96	80-120	
Dibromochloromethane	25.0	1.0 U	25.4	102	75-125	
Chloroethane	25.0	1.0 U	27.7	111	69-136	
Chloroform	25.0	1.0 U	23.9	96	73-127	
Chloromethane	25.0	1.0 U	22.1	88	68-124	
cis-1,2-Dichloroethene	25.0	1.0 U	24.1	96	74-124	
cis-1,3-Dichloropropene	25.0	1.0 U	23.8	95	74-124	
Cyclohexane	25.0	1.0 U	25.9	104	59-135	
Dichlorodifluoromethane	25.0	1.0 U	27.7	111	59-135	
Ethylbenzene	25.0	1.0 U	24.3	97	77-123	
1,2-Dibromoethane	25.0	1.0 U	23.6	94	77-120	
Isopropylbenzene	25.0	1.0 U	24.9	100	77-122	
Methyl acetate	50.0	2.5 U	42.1	84	74-133	
Methyl tert-butyl ether	25.0	1.0 U	23.9	96	77-120	
Methylcyclohexane	25.0	1.0 U	26.1	105	68-134	
Methylene Chloride	25.0	1.0 U	24.1	97	75-124	
Styrene	25.0	1.0 U	23.8	95	80-120	
Tetrachloroethene	25.0	1.0 U	24.9	100	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: L1035.D

Lab ID: 480-213117-5 MS Client ID: GW-10S-09262023-MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	25.0	1.0 U	24.2	97	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	24.8	99	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	24.4	98	80-120	
Trichloroethene	25.0	0.73 J	25.2	98	74-123	
Trichlorofluoromethane	25.0	1.0 U	25.4	102	62-150	
Vinyl chloride	25.0	1.0 U	29.3	117	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4278.d

Lab ID: 480-213061-2 MSD Client ID: SW-B-09252023-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	29.8	119	3	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	28.5	114	2	15	76-120	
1,1,2-Trichloroethane	25.0	28.6	115	2	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.2	117	5	20	61-148	
1,1-Dichloroethane	25.0	27.1	109	2	20	77-120	
1,1-Dichloroethene	25.0	31.2	125	1	16	66-127	
1,2,4-Trichlorobenzene	25.0	26.2	105	2	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	29.2	117	1	15	56-134	
1,2-Dichlorobenzene	25.0	27.2	109	3	20	80-124	
1,2-Dichloroethane	25.0	25.5	102	3	20	75-120	
1,2-Dichloropropane	25.0	28.2	113	4	20	76-120	
1,3-Dichlorobenzene	25.0	28.3	113	2	20	77-120	
1,4-Dichlorobenzene	25.0	27.9	111	2	20	78-124	
2-Butanone (MEK)	125	150	120	3	20	57-140	
2-Hexanone	125	166	133	1	15	65-127	F1
4-Methyl-2-pentanone (MIBK)	125	149	119	1	35	71-125	
Acetone	125	132	106	1	15	56-142	
Benzene	25.0	28.3	113	3	13	71-124	
Bromodichloromethane	25.0	28.6	114	4	15	80-122	
Bromoform	25.0	33.2	133	2	15	61-132	F1
Bromomethane	25.0	16.7	67	1	15	55-144	
Carbon disulfide	25.0	28.4	114	4	15	59-134	
Carbon tetrachloride	25.0	31.2	125	4	15	72-134	
Chlorobenzene	25.0	28.7	115	1	25	80-120	
Dibromochloromethane	25.0	31.2	125	3	15	75-125	
Chloroethane	25.0	20.8	83	5	15	69-136	
Chloroform	25.0	26.0	104	2	20	73-127	
Chloromethane	25.0	22.6	90	1	15	68-124	
cis-1,2-Dichloroethene	25.0	27.6	111	3	15	74-124	
cis-1,3-Dichloropropene	25.0	29.0	116	6	15	74-124	
Cyclohexane	25.0	28.6	114	2	20	59-135	
Dichlorodifluoromethane	25.0	21.1	84	2	20	59-135	
Ethylbenzene	25.0	30.2	121	3	15	77-123	
1,2-Dibromoethane	25.0	29.6	118	2	15	77-120	
Isopropylbenzene	25.0	28.3	113	2	20	77-122	
Methyl acetate	50.0	54.1	108	0	20	74-133	
Methyl tert-butyl ether	25.0	25.8	103	3	37	77-120	
Methylcyclohexane	25.0	27.6	111	4	20	68-134	
Methylene Chloride	25.0	26.9	108	3	15	75-124	
Styrene	25.0	29.7	119	2	20	80-120	
Tetrachloroethene	25.0	29.4	118	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: D4278.d

Lab ID: 480-213061-2 MSD Client ID: SW-B-09252023-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	25.0	28.9	115	1	15	80-122	
trans-1,2-Dichloroethene	25.0	28.4	114	3	20	73-127	
trans-1,3-Dichloropropene	25.0	29.8	119	3	15	80-120	
Trichloroethene	25.0	28.0	112	2	16	74-123	
Trichlorofluoromethane	25.0	27.2	109	0	20	62-150	
Vinyl chloride	25.0	26.6	107	2	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: L1036.D

Lab ID: 480-213117-5 MSD Client ID: GW-10S-09262023-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	29.3	117	13	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	27.6	110	15	15	76-120	
1,1,2-Trichloroethane	25.0	26.7	107	12	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.8	115	9	20	61-148	
1,1-Dichloroethane	25.0	27.7	111	14	20	77-120	
1,1-Dichloroethene	25.0	29.3	117	14	16	66-127	
1,2,4-Trichlorobenzene	25.0	25.4	101	10	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	29.5	118	23	15	56-134	F2
1,2-Dichlorobenzene	25.0	26.6	106	13	20	80-124	
1,2-Dichloroethane	25.0	26.1	105	11	20	75-120	
1,2-Dichloropropane	25.0	27.1	108	13	20	76-120	
1,3-Dichlorobenzene	25.0	27.3	109	13	20	77-120	
1,4-Dichlorobenzene	25.0	26.9	108	14	20	78-124	
2-Butanone (MEK)	125	130	104	22	20	57-140	F2
2-Hexanone	125	132	105	20	15	65-127	F2
4-Methyl-2-pentanone (MIBK)	125	133	107	19	35	71-125	
Acetone	125	130	104	21	15	56-142	F2
Benzene	25.0	27.4	110	12	13	71-124	
Bromodichloromethane	25.0	28.8	115	13	15	80-122	
Bromoform	25.0	24.8	99	25	15	61-132	F2
Bromomethane	25.0	24.9	99	7	15	55-144	
Carbon disulfide	25.0	27.9	111	17	15	59-134	F2
Carbon tetrachloride	25.0	31.5	124	15	15	72-134	
Chlorobenzene	25.0	27.1	108	12	25	80-120	
Dibromochloromethane	25.0	30.0	120	17	15	75-125	F2
Chloroethane	25.0	27.2	109	2	15	69-136	
Chloroform	25.0	26.9	108	12	20	73-127	
Chloromethane	25.0	23.2	93	5	15	68-124	
cis-1,2-Dichloroethene	25.0	27.6	111	14	15	74-124	
cis-1,3-Dichloropropene	25.0	27.5	110	15	15	74-124	
Cyclohexane	25.0	28.4	113	9	20	59-135	
Dichlorodifluoromethane	25.0	27.1	108	2	20	59-135	
Ethylbenzene	25.0	27.5	110	13	15	77-123	
1,2-Dibromoethane	25.0	27.2	109	14	15	77-120	
Isopropylbenzene	25.0	29.5	118	17	20	77-122	
Methyl acetate	50.0	52.0	104	21	20	74-133	F2
Methyl tert-butyl ether	25.0	26.8	107	11	37	77-120	
Methylcyclohexane	25.0	28.3	113	8	20	68-134	
Methylene Chloride	25.0	27.5	110	13	15	75-124	
Styrene	25.0	27.0	108	13	20	80-120	
Tetrachloroethene	25.0	28.1	112	12	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: L1036.D

Lab ID: 480-213117-5 MSD Client ID: GW-10S-09262023-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	25.0	27.7	111	13	15	80-122	
trans-1,2-Dichloroethene	25.0	28.3	113	13	20	73-127	
trans-1,3-Dichloropropene	25.0	27.7	111	12	15	80-120	
Trichloroethene	25.0	28.8	112	13	16	74-123	
Trichlorofluoromethane	25.0	25.8	103	1	20	62-150	
Vinyl chloride	25.0	29.9	119	2	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: D4240.d Lab Sample ID: MB 480-685071/9

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

Instrument ID: HP5975D Date Analyzed: 09/26/2023 23:04

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-685071/6	D4238.d	09/26/2023 22:20
GW-13D-09252023	480-213061-1	D4244.d	09/27/2023 00:32
FD-1-09252023	480-213061-3	D4246.d	09/27/2023 01:16
EB-1-09252023	480-213061-4	D4247.d	09/27/2023 01:38
TB-1-09252023	480-213061-5	D4248.d	09/27/2023 02:00

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: D4259.d Lab Sample ID: MB 480-685139/9

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

Instrument ID: HP5975D Date Analyzed: 09/27/2023 11:28

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-685139/6	D4257.d	09/27/2023 10:44
SW-B-09252023	480-213061-2	D4270.d	09/27/2023 16:11
SW-B-09252023-MS MS	480-213061-2 MS	D4277.d	09/27/2023 18:45
SW-B-09252023-MSD MSD	480-213061-2 MSD	D4278.d	09/27/2023 19:07

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: L1014.D Lab Sample ID: MB 480-685187/9

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

Instrument ID: HP5977L Date Analyzed: 09/27/2023 14:46

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

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-685187/7	L1012.D	09/27/2023 13:37
GW-M-26S-09262023	480-213117-1	L1022.D	09/27/2023 18:00
GW-M-26D-09262023	480-213117-2	L1023.D	09/27/2023 18:24
GW-11D-09262023	480-213117-3	L1024.D	09/27/2023 18:49
DUP-2-09262023	480-213117-4	L1025.D	09/27/2023 19:13
GW-10S-09262023	480-213117-5	L1026.D	09/27/2023 19:37
GW-13S-09262023	480-213117-6	L1027.D	09/27/2023 20:02
GW-M-27D-09262023	480-213117-7	L1028.D	09/27/2023 20:27
EB-2-09262023	480-213117-8	L1029.D	09/27/2023 20:51
TB-2-09262023	480-213117-9	L1030.D	09/27/2023 21:15
GW-10S-09262023-MS MS	480-213117-5 MS	L1035.D	09/27/2023 23:16
GW-10S-09262023-MSD MSD	480-213117-5 MSD	L1036.D	09/27/2023 23:40

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: L1075.D Lab Sample ID: MB 480-685418/8

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

Instrument ID: HP5977L Date Analyzed: 09/29/2023 02:02

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

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-685418/6	L1073.D	09/29/2023 01:13
SW-D-09272023	480-213168-1	L1081.D	09/29/2023 04:29
GW-M-28S-09272023	480-213168-2	L1082.D	09/29/2023 04:53
GW-M-29S-09272023	480-213168-3	L1083.D	09/29/2023 05:18
GW-MW-4-09272023	480-213168-4	L1084.D	09/29/2023 05:42
GW-M-29D-09272023	480-213168-5	L1085.D	09/29/2023 06:07
GW-M-25D-09272023	480-213168-6	L1086.D	09/29/2023 06:31
GW-M-25S-09272023	480-213168-7	L1087.D	09/29/2023 06:56
GW-M-1-09272023	480-213168-8	L1088.D	09/29/2023 07:20
GW-M-28D-0929023	480-213168-9	L1089.D	09/29/2023 07:45
EB-3-09272023	480-213168-10	L1090.D	09/29/2023 08:09
TB-3-09272023	480-213168-11	L1091.D	09/29/2023 08:33

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: D4458.d Lab Sample ID: MB 480-685822/8

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

Instrument ID: HP5975D Date Analyzed: 10/02/2023 17:31

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-685822/6	D4456.d	10/02/2023 16:47
GW-4S-09282023	480-213196-1	D4459.d	10/02/2023 17:56
GW-4D-09282023	480-213196-2	D4460.d	10/02/2023 18:19
GW-M-24DR-09282023	480-213196-3	D4461.d	10/02/2023 18:41
GW-DGC-4S-09282023	480-213196-4	D4462.d	10/02/2023 19:03
SW-F-09282023	480-213196-5	D4463.d	10/02/2023 19:25
SW-A-09282023	480-213196-6	D4464.d	10/02/2023 19:47
SW-E-09282023	480-213196-7	D4465.d	10/02/2023 20:09
SW-G-09282023	480-213196-8	D4466.d	10/02/2023 20:31
EB-4-09282023	480-213196-9	D4467.d	10/02/2023 20:53
TB-4-09282023	480-213196-10	D4468.d	10/02/2023 21:15

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: D3479.d BFB Injection Date: 09/07/2023

Instrument ID: HP5975D BFB Injection Time: 14:54

Analysis Batch No.: 682635

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.8	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	Greater than 50% of mass 95	93.8	
175	5.0 - 9.0 % of mass 174	7.4	(7.9) 1
176	95.0 - 101.0 % of mass 174	94.6	(100.8) 1
177	5.0 - 9.0 % of mass 176	6.4	(6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-682635/13	D3481.d	09/07/2023	15:45
	IC 480-682635/14	D3482.d	09/07/2023	16:07
	IC 480-682635/15	D3483.d	09/07/2023	16:29
	IC 480-682635/16	D3484.d	09/07/2023	16:51
	IC 480-682635/17	D3485.d	09/07/2023	17:13
	ICIS 480-682635/18	D3486.d	09/07/2023	17:35
	IC 480-682635/19	D3487.d	09/07/2023	17:57
	IC 480-682635/20	D3488.d	09/07/2023	18:19
	ICV 480-682635/34	D3502.d	09/07/2023	23:27
	ICV 480-682635/35	D3503.d	09/07/2023	23:49

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: D4235.d BFB Injection Date: 09/26/2023

Instrument ID: HP5975D BFB Injection Time: 21:15

Analysis Batch No.: 685071

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.2	
75	30.0 - 60.0 % of mass 95	45.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.7	(0.7) 1
174	Greater than 50% of mass 95	95.9	
175	5.0 - 9.0 % of mass 174	7.5	(7.9) 1
176	95.0 - 101.0 % of mass 174	95.7	(99.7) 1
177	5.0 - 9.0 % of mass 176	6.2	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-685071/4	D4236.d	09/26/2023	21:36
	LCS 480-685071/6	D4238.d	09/26/2023	22:20
	MB 480-685071/9	D4240.d	09/26/2023	23:04
GW-13D-09252023	480-213061-1	D4244.d	09/27/2023	0:32
FD-1-09252023	480-213061-3	D4246.d	09/27/2023	1:16
EB-1-09252023	480-213061-4	D4247.d	09/27/2023	1:38
TB-1-09252023	480-213061-5	D4248.d	09/27/2023	2:00

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: D4254.d BFB Injection Date: 09/27/2023

Instrument ID: HP5975D BFB Injection Time: 09:20

Analysis Batch No.: 685139

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.6	
75	30.0 - 60.0 % of mass 95	46.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.5	(0.5) 1
174	Greater than 50% of mass 95	92.5	
175	5.0 - 9.0 % of mass 174	7.0	(7.6) 1
176	95.0 - 101.0 % of mass 174	91.6	(99.1) 1
177	5.0 - 9.0 % of mass 176	6.4	(7.0) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-685139/4	D4255.d	09/27/2023	9:43
	LCS 480-685139/6	D4257.d	09/27/2023	10:44
	MB 480-685139/9	D4259.d	09/27/2023	11:28
SW-B-09252023	480-213061-2	D4270.d	09/27/2023	16:11
SW-B-09252023-MS MS	480-213061-2 MS	D4277.d	09/27/2023	18:45
SW-B-09252023-MSD MSD	480-213061-2 MSD	D4278.d	09/27/2023	19:07

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: D4453.d BFB Injection Date: 10/02/2023

Instrument ID: HP5975D BFB Injection Time: 15:40

Analysis Batch No.: 685822

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.5	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.7	(0.8) 1
174	Greater than 50% of mass 95	89.7	
175	5.0 - 9.0 % of mass 174	7.2	(8.0) 1
176	95.0 - 101.0 % of mass 174	89.6	(99.9) 1
177	5.0 - 9.0 % of mass 176	6.1	(6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-685822/4	D4454.d	10/02/2023	16:03
	LCS 480-685822/6	D4456.d	10/02/2023	16:47
	MB 480-685822/8	D4458.d	10/02/2023	17:31
GW-4S-09282023	480-213196-1	D4459.d	10/02/2023	17:56
GW-4D-09282023	480-213196-2	D4460.d	10/02/2023	18:19
GW-M-24DR-09282023	480-213196-3	D4461.d	10/02/2023	18:41
GW-DGC-4S-09282023	480-213196-4	D4462.d	10/02/2023	19:03
SW-F-09282023	480-213196-5	D4463.d	10/02/2023	19:25
SW-A-09282023	480-213196-6	D4464.d	10/02/2023	19:47
SW-E-09282023	480-213196-7	D4465.d	10/02/2023	20:09
SW-G-09282023	480-213196-8	D4466.d	10/02/2023	20:31
EB-4-09282023	480-213196-9	D4467.d	10/02/2023	20:53
TB-4-09282023	480-213196-10	D4468.d	10/02/2023	21:15

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: L0971.D BFB Injection Date: 09/25/2023

Instrument ID: HP5977L BFB Injection Time: 14:07

Analysis Batch No.: 684845

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.9	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	77.6	
175	5.0 - 9.0 % of mass 174	4.8	(6.2) 1
176	95.0 - 101.0 % of mass 174	77.2	(99.5) 1
177	5.0 - 9.0 % of mass 176	4.7	(6.1) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-684845/14	L0973.D	09/25/2023	14:59
	IC 480-684845/15	L0974.D	09/25/2023	15:24
	IC 480-684845/16	L0975.D	09/25/2023	15:48
	IC 480-684845/17	L0976.D	09/25/2023	16:13
	IC 480-684845/18	L0977.D	09/25/2023	16:37
	ICIS 480-684845/19	L0978.D	09/25/2023	17:01
	IC 480-684845/20	L0979.D	09/25/2023	17:25
	IC 480-684845/21	L0980.D	09/25/2023	17:49
	ICV 480-684845/35	L0994.D	09/25/2023	23:31

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: L1008.D BFB Injection Date: 09/27/2023

Instrument ID: HP5977L BFB Injection Time: 11:43

Analysis Batch No.: 685187

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.6	
75	30.0 - 60.0 % of mass 95	44.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	77.6	
175	5.0 - 9.0 % of mass 174	5.6	(7.2) 1
176	95.0 - 101.0 % of mass 174	74.9	(96.6) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-685187/5	L1010.D	09/27/2023	12:48
	LCS 480-685187/7	L1012.D	09/27/2023	13:37
	MB 480-685187/9	L1014.D	09/27/2023	14:46
GW-M-26S-09262023	480-213117-1	L1022.D	09/27/2023	18:00
GW-M-26D-09262023	480-213117-2	L1023.D	09/27/2023	18:24
GW-11D-09262023	480-213117-3	L1024.D	09/27/2023	18:49
DUP-2-09262023	480-213117-4	L1025.D	09/27/2023	19:13
GW-10S-09262023	480-213117-5	L1026.D	09/27/2023	19:37
GW-13S-09262023	480-213117-6	L1027.D	09/27/2023	20:02
GW-M-27D-09262023	480-213117-7	L1028.D	09/27/2023	20:27
EB-2-09262023	480-213117-8	L1029.D	09/27/2023	20:51
TB-2-09262023	480-213117-9	L1030.D	09/27/2023	21:15
GW-10S-09262023-MS MS	480-213117-5 MS	L1035.D	09/27/2023	23:16
GW-10S-09262023-MSD MSD	480-213117-5 MSD	L1036.D	09/27/2023	23:40

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab File ID: L1070.D BFB Injection Date: 09/29/2023

Instrument ID: HP5977L BFB Injection Time: 00:01

Analysis Batch No.: 685418

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	Greater than 50% of mass 95	74.3	
175	5.0 - 9.0 % of mass 174	5.6	(7.5) 1
176	95.0 - 101.0 % of mass 174	74.0	(99.6) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-685418/4	L1071.D	09/29/2023	0:25
	LCS 480-685418/6	L1073.D	09/29/2023	1:13
	MB 480-685418/8	L1075.D	09/29/2023	2:02
SW-D-09272023	480-213168-1	L1081.D	09/29/2023	4:29
GW-M-28S-09272023	480-213168-2	L1082.D	09/29/2023	4:53
GW-M-29S-09272023	480-213168-3	L1083.D	09/29/2023	5:18
GW-MW-4-09272023	480-213168-4	L1084.D	09/29/2023	5:42
GW-M-29D-09272023	480-213168-5	L1085.D	09/29/2023	6:07
GW-M-25D-09272023	480-213168-6	L1086.D	09/29/2023	6:31
GW-M-25S-09272023	480-213168-7	L1087.D	09/29/2023	6:56
GW-M-1-09272023	480-213168-8	L1088.D	09/29/2023	7:20
GW-M-28D-0929023	480-213168-9	L1089.D	09/29/2023	7:45
EB-3-09272023	480-213168-10	L1090.D	09/29/2023	8:09
TB-3-09272023	480-213168-11	L1091.D	09/29/2023	8:33

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Sample No.: ICIS 480-682635/18 Date Analyzed: 09/07/2023 17:35

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D3486.d Heated Purge: (Y/N) N

Calibration ID: 45326

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		124403	4.89	262605	7.25	267396	9.16
UPPER LIMIT		248806	5.39	525210	7.75	534792	9.66
LOWER LIMIT		62202	4.39	131303	6.75	133698	8.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-685071/4		95305	4.87	201335	7.23	210453	9.14
CCVIS 480-685139/4		88309	4.87	184493	7.23	187414	9.14
CCVIS 480-685822/4		89687	4.88	190944	7.23	196690	9.15

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Sample No.: CCVIS 480-685071/4 Date Analyzed: 09/26/2023 21:36

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D4236.d Heated Purge: (Y/N) N

Calibration ID: 45329

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		95305	4.87	201335	7.23	210453	9.14
UPPER LIMIT		190610	5.37	402670	7.73	420906	9.64
LOWER LIMIT		47653	4.37	100668	6.73	105227	8.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-685071/6		93015	4.87	195432	7.22	207653	9.14
MB 480-685071/9		98130	4.87	208426	7.23	228687	9.14
480-213061-1	GW-13D-09252023	99562	4.87	208725	7.23	231237	9.14
480-213061-3	FD-1-09252023	101985	4.87	210209	7.23	231313	9.14
480-213061-4	EB-1-09252023	103735	4.87	225425	7.23	247089	9.14
480-213061-5	TB-1-09252023	100206	4.87	212461	7.23	231519	9.14

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Sample No.: CCVIS 480-685139/4 Date Analyzed: 09/27/2023 09:43

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D4255.d Heated Purge: (Y/N) N

Calibration ID: 45329

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		88309	4.87	184493	7.23	187414	9.14
UPPER LIMIT		176618	5.37	368986	7.73	374828	9.64
LOWER LIMIT		44155	4.37	92247	6.73	93707	8.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-685139/6		92655	4.87	194269	7.23	201466	9.14
MB 480-685139/9		98207	4.87	201059	7.23	215370	9.14
480-213061-2	SW-B-09252023	100794	4.87	216053	7.23	241898	9.15
480-213061-2 MS	SW-B-09252023-MS MS	98996	4.87	205553	7.23	219056	9.15
480-213061-2 MSD	SW-B-09252023-MSD MSD	96251	4.87	205568	7.23	219434	9.15

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Sample No.: CCVIS 480-685822/4 Date Analyzed: 10/02/2023 16:03

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D4454.d Heated Purge: (Y/N) N

Calibration ID: 45329

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		89687	4.88	190944	7.23	196690	9.15
UPPER LIMIT		179374	5.38	381888	7.73	393380	9.65
LOWER LIMIT		44844	4.38	95472	6.73	98345	8.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-685822/6		91427	4.88	193876	7.23	201192	9.15
MB 480-685822/8		99644	4.88	209770	7.23	231132	9.15
480-213196-1	GW-4S-09282023	94870	4.88	198185	7.23	226871	9.15
480-213196-2	GW-4D-09282023	94823	4.88	198858	7.23	218058	9.15
480-213196-3	GW-M-24DR-09282023	96440	4.88	200859	7.23	231605	9.15
480-213196-4	GW-DGC-4S-09282023	94719	4.88	196102	7.24	210989	9.15
480-213196-5	SW-F-09282023	98595	4.88	210418	7.23	239317	9.15
480-213196-6	SW-A-09282023	95374	4.88	199624	7.23	225787	9.15
480-213196-7	SW-E-09282023	96404	4.88	198738	7.24	217867	9.15
480-213196-8	SW-G-09282023	88897	4.88	188972	7.23	202219	9.15
480-213196-9	EB-4-09282023	90613	4.88	187541	7.23	206178	9.15
480-213196-10	TB-4-09282023	93337	4.88	195719	7.23	214782	9.15

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Sample No.: ICIS 480-684845/19 Date Analyzed: 09/25/2023 17:01

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

Lab File ID (Standard): L0978.D Heated Purge: (Y/N) N

Calibration ID: 45376

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		134136	5.67	539602	8.55	290249	10.95
UPPER LIMIT		268272	6.17	1079204	9.05	580498	11.45
LOWER LIMIT		67068	5.17	269801	8.05	145125	10.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-685187/5		146688	5.67	586613	8.54	292750	10.95
CCVIS 480-685418/4		128842	5.67	520192	8.54	270634	10.95

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Sample No.: CCVIS 480-685187/5 Date Analyzed: 09/27/2023 12:48

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

Lab File ID (Standard): L1010.D Heated Purge: (Y/N) N

Calibration ID: 45379

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		146688	5.67	586613	8.54	292750	10.95
UPPER LIMIT		293376	6.17	1173226	9.04	585500	11.45
LOWER LIMIT		73344	5.17	293307	8.04	146375	10.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-685187/7		135082	5.67	543161	8.55	280520	10.95
MB 480-685187/9		159505	5.67	628045	8.55	339664	10.95
480-213117-1	GW-M-26S-09262023	145063	5.67	520223	8.55	273626	10.95
480-213117-2	GW-M-26D-09262023	147129	5.67	549258	8.55	314950	10.95
480-213117-3	GW-11D-09262023	144488	5.67	559777	8.55	302248	10.95
480-213117-4	DUP-2-09262023	152065	5.67	607973	8.54	330544	10.95
480-213117-5	GW-10S-09262023	143423	5.67	528438	8.55	299598	10.95
480-213117-6	GW-13S-09262023	143278	5.67	524137	8.55	282884	10.95
480-213117-7	GW-M-27D-09262023	143662	5.67	527655	8.55	288936	10.95
480-213117-8	EB-2-09262023	145754	5.67	548490	8.55	301013	10.95
480-213117-9	TB-2-09262023	141889	5.67	556911	8.55	317094	10.95
480-213117-5 MS	GW-10S-09262023-MS MS	134984	5.67	522831	8.54	277359	10.95
480-213117-5 MSD	GW-10S-09262023-MSD MSD	131226	5.67	506560	8.55	259278	10.95

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Sample No.: CCVIS 480-685418/4 Date Analyzed: 09/29/2023 00:25

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

Lab File ID (Standard): L1071.D Heated Purge: (Y/N) N

Calibration ID: 45379

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		128842	5.67	520192	8.54	270634	10.95
UPPER LIMIT		257684	6.17	1040384	9.04	541268	11.45
LOWER LIMIT		64421	5.17	260096	8.04	135317	10.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-685418/6		120513	5.67	476869	8.55	249640	10.95
MB 480-685418/8		137979	5.67	525919	8.55	289164	10.95
480-213168-1	SW-D-09272023	135601	5.67	554058	8.55	303352	10.95
480-213168-2	GW-M-28S-09272023	132221	5.67	524469	8.55	282456	10.95
480-213168-3	GW-M-29S-09272023	129913	5.67	491767	8.54	261459	10.95
480-213168-4	GW-MW-4-09272023	128987	5.67	485301	8.55	271811	10.95
480-213168-5	GW-M-29D-09272023	125655	5.67	466755	8.55	255697	10.95
480-213168-6	GW-M-25D-09272023	131503	5.67	546700	8.55	314239	10.95
480-213168-7	GW-M-25S-09272023	132409	5.67	525059	8.55	276103	10.95
480-213168-8	GW-M-1-09272023	130124	5.67	521546	8.55	285398	10.95
480-213168-9	GW-M-28D-0929023	124058	5.67	459082	8.55	253039	10.95
480-213168-10	EB-3-09272023	122414	5.67	482464	8.55	279008	10.95
480-213168-11	TB-3-09272023	125250	5.67	484949	8.55	277195	10.95

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

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-13D-09252023 | Lab Sample ID: 480-213061-1

Matrix: Water | Lab File ID: D4244.d

Analysis Method: 8260C | Date Collected: 09/25/2023 16:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 00:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U *+	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.61	J	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-13D-09252023 | Lab Sample ID: 480-213061-1

Matrix: Water | Lab File ID: D4244.d

Analysis Method: 8260C | Date Collected: 09/25/2023 16:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 00:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4244.d
Lims ID: 480-213061-C-1
Client ID: GW-M-27D-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 00:32:30 ALS Bottle#: 40 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-C-1
Misc. Info.: 480-0113980-033
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:47:55 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:47:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	99562	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	208725	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.138	9.138	0.000	96	231237	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.383	0.006	92	180652	24.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.645	4.639	0.006	99	94305	24.3	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	461130	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.181	8.181	0.000	95	169344	26.2	
10 Dichlorodifluoromethane	85		1.170				ND	
12 Chloromethane	50		1.335				ND	
13 Vinyl chloride	62		1.420				ND	
14 Bromomethane	94		1.713				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.000				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.457				ND	U
22 1,1-Dichloroethene	96		2.463				ND	
23 Acetone	43		2.567				ND	
26 Carbon disulfide	76		2.646				ND	
27 Methyl acetate	43		2.847				ND	
30 Methylene Chloride	84		2.932				ND	
32 Methyl tert-butyl ether	73		3.127				ND	
34 trans-1,2-Dichloroethene	96		3.140				ND	
39 1,1-Dichloroethane	63		3.511				ND	
45 cis-1,2-Dichloroethene	96		3.993				ND	
43 2-Butanone (MEK)	43		4.017				ND	
50 Chloroform	83	4.255	4.255	0.000	85	1788	0.1517	
51 1,1,1-Trichloroethane	97		4.353				ND	
52 Cyclohexane	56		4.365				ND	
55 Carbon tetrachloride	117	4.475	4.469	0.006	97	4531	0.6106	
57 Benzene	78		4.652				ND	
58 1,2-Dichloroethane	62		4.700				ND	
62 Trichloroethene	95		5.145				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.249				ND	
65 1,2-Dichloropropane	63		5.340				ND	
68 Dichlorobromomethane	83		5.566				ND	
72 cis-1,3-Dichloropropene	75		5.895				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.005				ND	
74 Toluene	92		6.127				ND	
77 trans-1,3-Dichloropropene	75		6.340				ND	
79 1,1,2-Trichloroethane	83		6.487				ND	
81 Tetrachloroethene	166		6.547				ND	
80 2-Hexanone	43		6.651				ND	
83 Chlorodibromomethane	129		6.797				ND	
84 Ethylene Dibromide	107		6.889				ND	
87 Chlorobenzene	112		7.249				ND	
88 Ethylbenzene	91		7.316				ND	
90 m-Xylene & p-Xylene	106		7.407				ND	
91 o-Xylene	106		7.736				ND	
92 Styrene	104		7.755				ND	
95 Bromoform	173		7.950				ND	
94 Isopropylbenzene	105		8.023				ND	
97 1,1,2,2-Tetrachloroethane	83		8.334				ND	
111 1,3-Dichlorobenzene	146		9.084				ND	
113 1,4-Dichlorobenzene	146		9.157				ND	
116 1,2-Dichlorobenzene	146		9.480				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.157				ND	
119 1,2,4-Trichlorobenzene	180		10.821				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

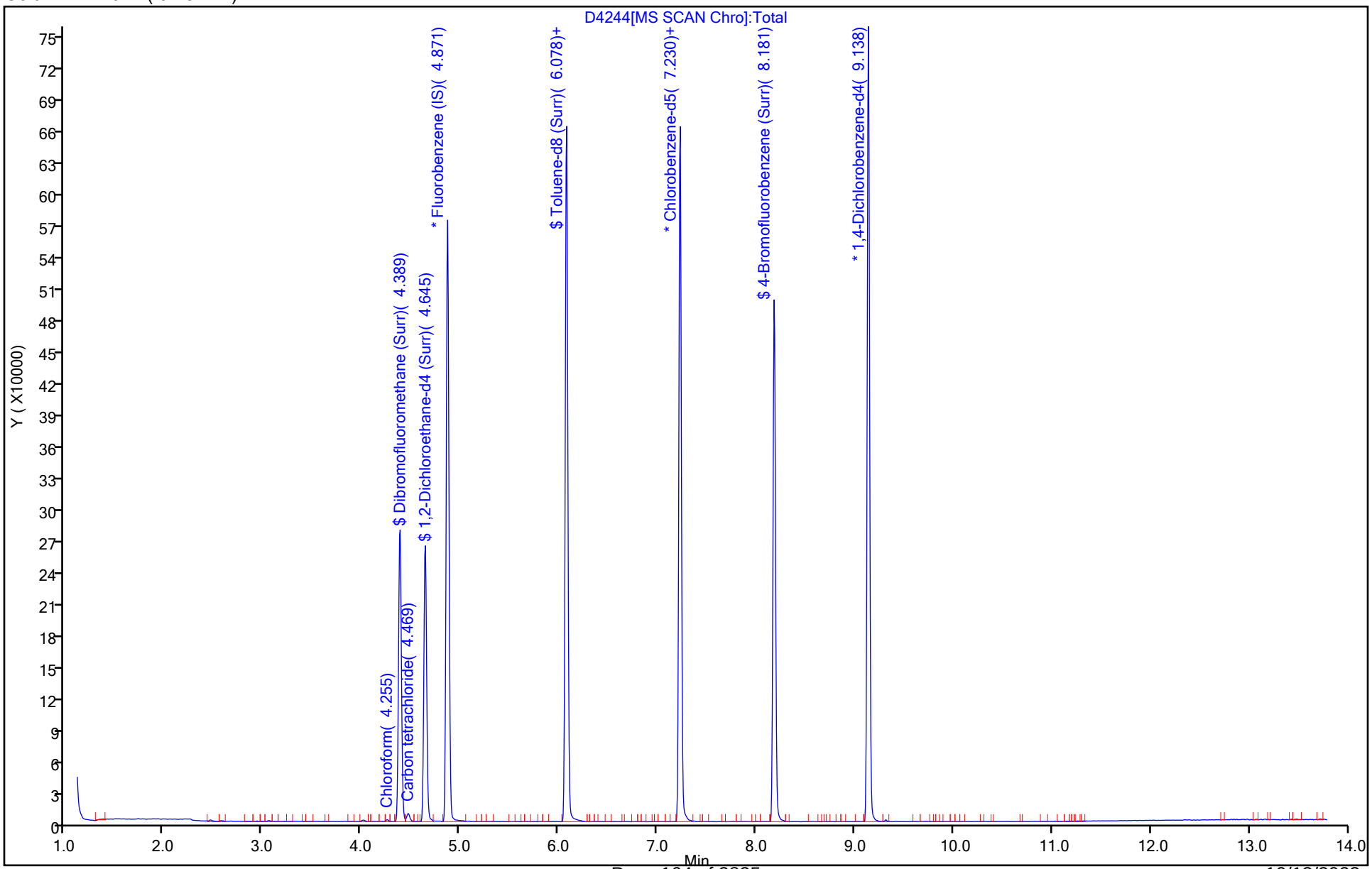
Report Date: 27-Sep-2023 07:47:56 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4244.d

Injection Date:	27-Sep-2023 00:32:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	480-213061-C-1	Lab Sample ID:	480-213061-1	Worklist Smp#:	33
Client ID:	GW-M-27D-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4244.d
Lims ID: 480-213061-C-1
Client ID: GW-M-27D-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 00:32:30 ALS Bottle#: 40 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-C-1
Misc. Info.: 480-0113980-033
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:47:55 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

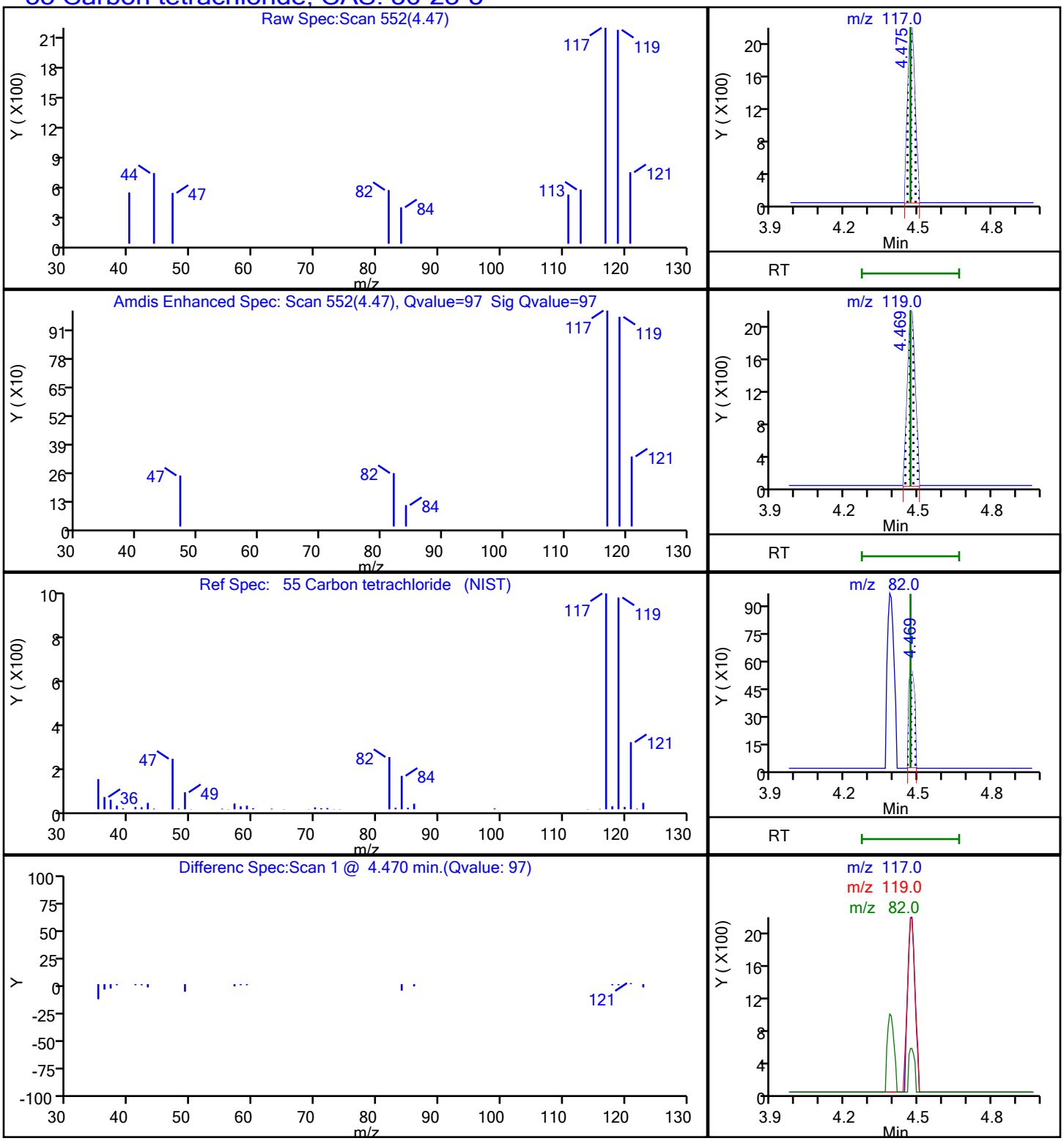
First Level Reviewer: QR3Z Date: 27-Sep-2023 07:47:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.6	98.26
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.3	97.28
$ 5 Toluene-d8 (Surr)	25.0	24.3	97.06
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.2	104.79

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4244.d
Injection Date: 27-Sep-2023 00:32:30 Instrument ID: HP5975D
Lims ID: 480-213061-C-1 Lab Sample ID: 480-213061-1
Client ID: GW-M-27D-09252023
Operator ID: ZN ALS Bottle#: 40 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5



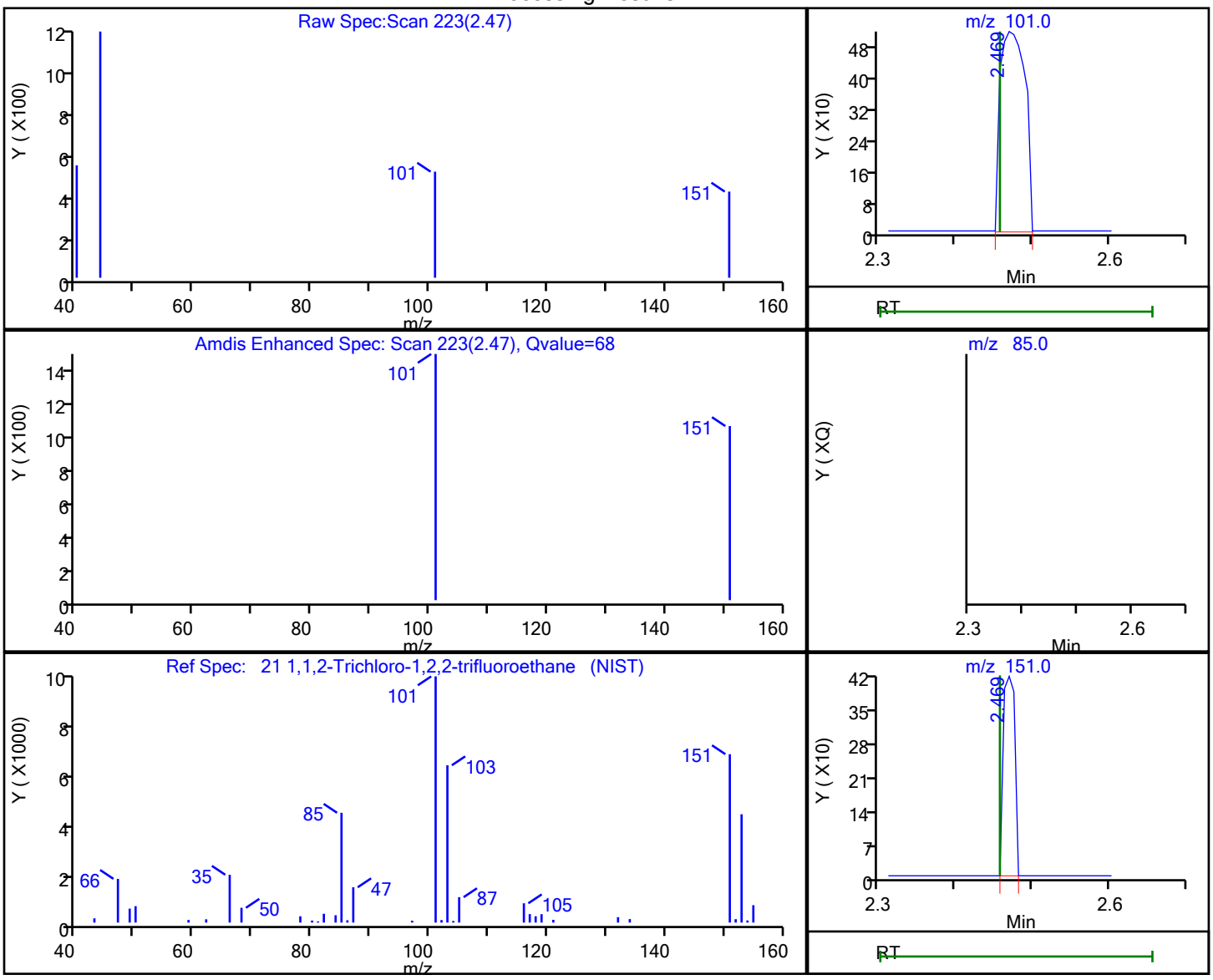
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4244.d
Injection Date: 27-Sep-2023 00:32:30 Instrument ID: HP5975D
Lims ID: 480-213061-C-1 Lab Sample ID: 480-213061-1
Client ID: GW-M-27D-09252023
Operator ID: ZN ALS Bottle#: 40 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
2.47	101.00	1170	0.191803
2.47	151.00	439	
2.46	85.00	0	

Reviewer: QR3Z, 27-Sep-2023 07:47:44 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023 | Lab Sample ID: 480-213061-2

Matrix: Water | Lab File ID: D4270.d

Analysis Method: 8260C | Date Collected: 09/25/2023 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 16:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U F1	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U F1	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023 | Lab Sample ID: 480-213061-2

Matrix: Water | Lab File ID: D4270.d

Analysis Method: 8260C | Date Collected: 09/25/2023 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 16:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4270.d
Lims ID: 480-213061-D-2
Client ID: SW-B-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 16:11:30 ALS Bottle#: 19 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-D-2
Misc. Info.: 480-0113984-039
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 07:23:10 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1616

First Level Reviewer: QR3Z Date: 28-Sep-2023 07:23:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	100794	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	86	216053	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.139	0.006	95	241898	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.383	0.006	92	182290	24.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.645	4.639	0.006	100	94643	24.1	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	477225	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.187	8.181	0.006	96	173532	25.9	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.713				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.000				ND	
22 1,1-Dichloroethene	96		2.457				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.463				ND	
23 Acetone	43		2.567				ND	
26 Carbon disulfide	76		2.646				ND	7
27 Methyl acetate	43		2.847				ND	
30 Methylene Chloride	84		2.932				ND	
32 Methyl tert-butyl ether	73		3.128				ND	
34 trans-1,2-Dichloroethene	96		3.140				ND	
39 1,1-Dichloroethane	63		3.512				ND	
45 cis-1,2-Dichloroethene	96		3.993				ND	
43 2-Butanone (MEK)	43		4.018				ND	
50 Chloroform	83		4.255				ND	
51 1,1,1-Trichloroethane	97		4.353				ND	
52 Cyclohexane	56		4.365				ND	
55 Carbon tetrachloride	117		4.469				ND	
57 Benzene	78		4.652				ND	
58 1,2-Dichloroethane	62		4.700				ND	
62 Trichloroethene	95		5.145				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.249				ND	
65 1,2-Dichloropropane	63		5.340				ND	
68 Dichlorobromomethane	83		5.566				ND	
72 cis-1,3-Dichloropropene	75		5.895				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.005				ND	
74 Toluene	92		6.127				ND	
77 trans-1,3-Dichloropropene	75		6.340				ND	
79 1,1,2-Trichloroethane	83		6.487				ND	
81 Tetrachloroethene	166		6.548				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.798				ND	
84 Ethylene Dibromide	107		6.889				ND	
87 Chlorobenzene	112		7.249				ND	
88 Ethylbenzene	91		7.316				ND	
90 m-Xylene & p-Xylene	106		7.407				ND	
91 o-Xylene	106		7.736				ND	
92 Styrene	104		7.755				ND	
95 Bromoform	173		7.950				ND	
94 Isopropylbenzene	105		8.023				ND	
97 1,1,2,2-Tetrachloroethane	83		8.334				ND	
111 1,3-Dichlorobenzene	146		9.084				ND	
113 1,4-Dichlorobenzene	146		9.157				ND	
116 1,2-Dichlorobenzene	146		9.480				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.157				ND	
119 1,2,4-Trichlorobenzene	180		10.821				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

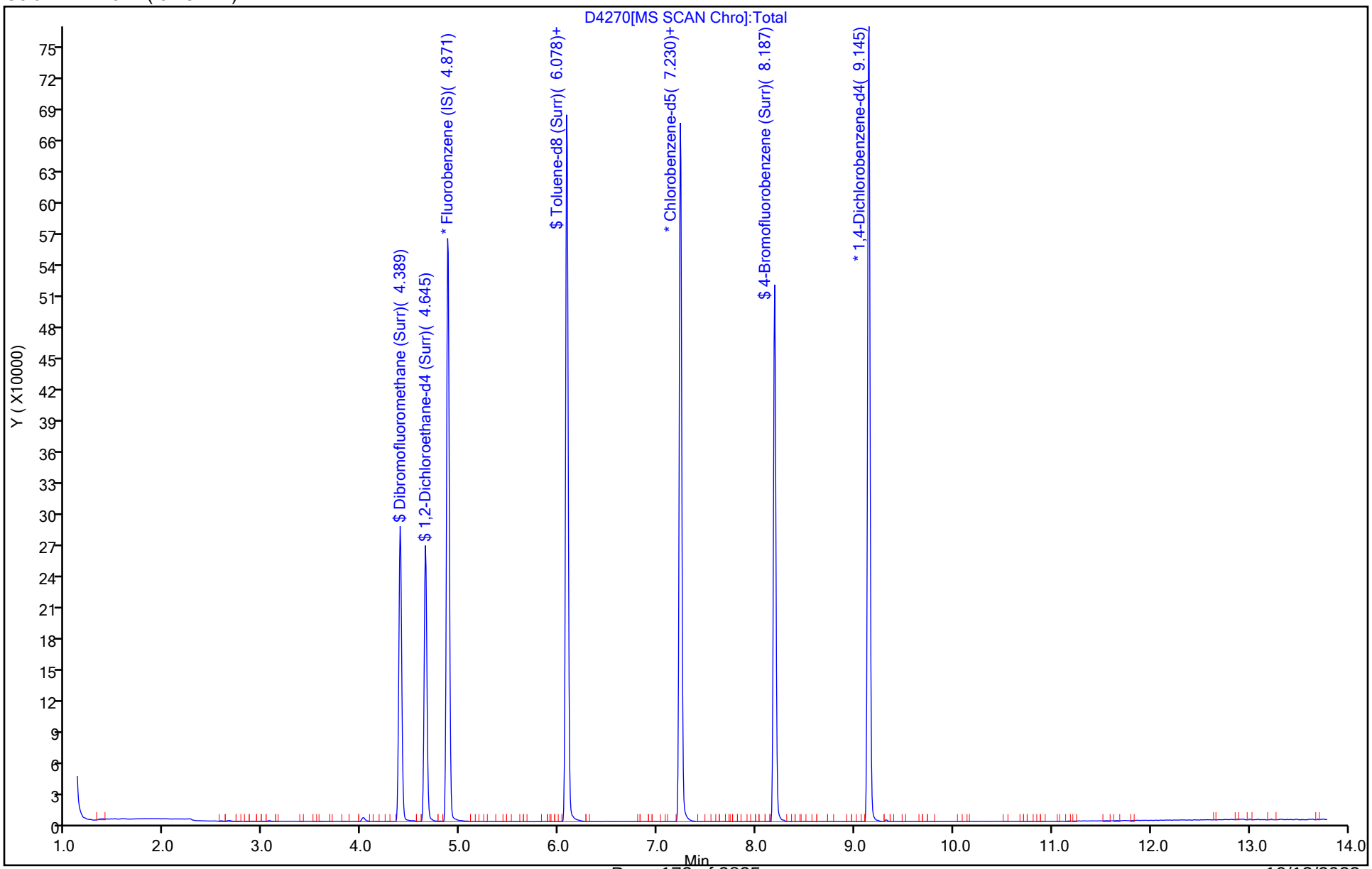
Report Date: 28-Sep-2023 07:23:35 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4270.d

Injection Date:	27-Sep-2023 16:11:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	480-213061-D-2	Lab Sample ID:	480-213061-2	Worklist Smp#:	39
Client ID:	SW-B-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4270.d
Lims ID: 480-213061-D-2
Client ID: SW-B-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 16:11:30 ALS Bottle#: 19 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-D-2
Misc. Info.: 480-0113984-039
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 07:23:10 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1616

First Level Reviewer: QR3Z Date: 28-Sep-2023 07:23:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.5	97.93
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.1	96.44
$ 5 Toluene-d8 (Surr)	25.0	24.3	97.04
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.9	103.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: FD-1-09252023 | Lab Sample ID: 480-213061-3

Matrix: Water | Lab File ID: D4246.d

Analysis Method: 8260C | Date Collected: 09/25/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 01:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: FD-1-09252023 | Lab Sample ID: 480-213061-3

Matrix: Water | Lab File ID: D4246.d

Analysis Method: 8260C | Date Collected: 09/25/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 01:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4246.d
Lims ID: 480-213061-C-3
Client ID: FD-1-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 01:16:30 ALS Bottle#: 42 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-C-3
Misc. Info.: 480-0113980-035
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:47:55 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:48:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	101985	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	210209	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.139	9.138	0.000	95	231313	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.383	4.383	0.000	92	185525	24.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.639	4.639	0.000	100	97221	24.5	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	471656	24.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.181	8.181	0.000	95	166343	25.6	
10 Dichlorodifluoromethane	85		1.170				ND	
12 Chloromethane	50		1.335				ND	
13 Vinyl chloride	62		1.420				ND	
14 Bromomethane	94		1.713				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.000				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.457				ND	
22 1,1-Dichloroethene	96		2.463				ND	
23 Acetone	43		2.567				ND	
26 Carbon disulfide	76		2.646				ND	
27 Methyl acetate	43		2.847				ND	
30 Methylene Chloride	84		2.932				ND	
32 Methyl tert-butyl ether	73		3.127				ND	
34 trans-1,2-Dichloroethene	96		3.140				ND	
39 1,1-Dichloroethane	63		3.511				ND	
45 cis-1,2-Dichloroethene	96		3.993				ND	
43 2-Butanone (MEK)	43		4.017				ND	
50 Chloroform	83		4.255				ND	
51 1,1,1-Trichloroethane	97		4.353				ND	
52 Cyclohexane	56		4.365				ND	
55 Carbon tetrachloride	117		4.469				ND	
57 Benzene	78		4.652				ND	
58 1,2-Dichloroethane	62		4.700				ND	
62 Trichloroethene	95		5.145				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.249				ND	
65 1,2-Dichloropropane	63		5.340				ND	
68 Dichlorobromomethane	83		5.566				ND	
72 cis-1,3-Dichloropropene	75		5.895				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.005				ND	
74 Toluene	92		6.127				ND	
77 trans-1,3-Dichloropropene	75		6.340				ND	
79 1,1,2-Trichloroethane	83		6.487				ND	
81 Tetrachloroethene	166		6.547				ND	
80 2-Hexanone	43		6.651				ND	
83 Chlorodibromomethane	129		6.797				ND	
84 Ethylene Dibromide	107		6.889				ND	
87 Chlorobenzene	112		7.249				ND	
88 Ethylbenzene	91		7.316				ND	
90 m-Xylene & p-Xylene	106		7.407				ND	
91 o-Xylene	106		7.736				ND	
92 Styrene	104		7.755				ND	
95 Bromoform	173		7.950				ND	
94 Isopropylbenzene	105		8.023				ND	
97 1,1,2,2-Tetrachloroethane	83		8.334				ND	
111 1,3-Dichlorobenzene	146		9.084				ND	
113 1,4-Dichlorobenzene	146		9.157				ND	
116 1,2-Dichlorobenzene	146		9.480				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.157				ND	
119 1,2,4-Trichlorobenzene	180		10.821				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

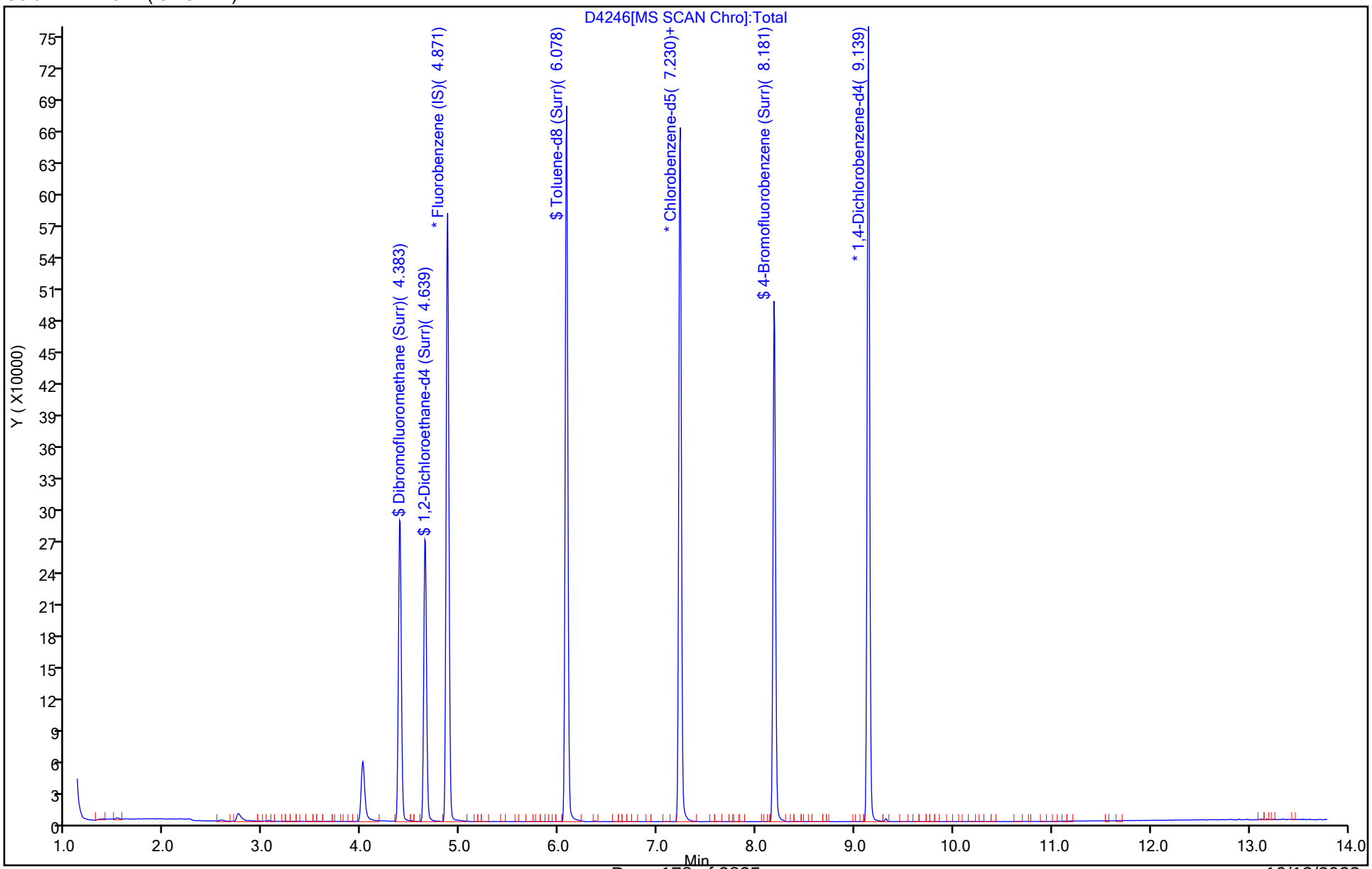
Report Date: 27-Sep-2023 07:48:27 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4246.d

Injection Date:	27-Sep-2023 01:16:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	480-213061-C-3	Lab Sample ID:	480-213061-3	Worklist Smp#:	35
Client ID:	FD-1-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4246.d
Lims ID: 480-213061-C-3
Client ID: FD-1-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 01:16:30 ALS Bottle#: 42 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-C-3
Misc. Info.: 480-0113980-035
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:47:55 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:48:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.6	98.51
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.5	97.91
$ 5 Toluene-d8 (Surr)	25.0	24.6	98.57
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.6	102.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-1-09252023 | Lab Sample ID: 480-213061-4

Matrix: Water | Lab File ID: D4247.d

Analysis Method: 8260C | Date Collected: 09/25/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 01:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U *+	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	4.5	J	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	0.57	J	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-1-09252023 | Lab Sample ID: 480-213061-4

Matrix: Water | Lab File ID: D4247.d

Analysis Method: 8260C | Date Collected: 09/25/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 01:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4247.d
Lims ID: 480-213061-C-4
Client ID: EB-1-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 01:38:30 ALS Bottle#: 43 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-C-4
Misc. Info.: 480-0113980-036
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:47:55 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:48:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	103735	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	225425	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.138	9.138	0.000	95	247089	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.383	4.383	0.000	92	186984	24.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.645	4.639	0.006	99	98657	24.4	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	497278	24.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.181	8.181	0.000	95	178005	25.5	
10 Dichlorodifluoromethane	85		1.170				ND	
12 Chloromethane	50		1.335				ND	
13 Vinyl chloride	62		1.420				ND	
14 Bromomethane	94		1.713				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.000				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.457				ND	
22 1,1-Dichloroethene	96		2.463				ND	
23 Acetone	43	2.573	2.567	0.006	99	11688	4.51	
26 Carbon disulfide	76		2.646				ND	
27 Methyl acetate	43		2.847				ND	
30 Methylene Chloride	84		2.932				ND	
32 Methyl tert-butyl ether	73		3.127				ND	
34 trans-1,2-Dichloroethene	96		3.140				ND	
39 1,1-Dichloroethane	63		3.511				ND	
45 cis-1,2-Dichloroethene	96		3.993				ND	
43 2-Butanone (MEK)	43		4.017				ND	
50 Chloroform	83	4.255	4.255	0.000	93	6977	0.5681	
51 1,1,1-Trichloroethane	97		4.353				ND	
52 Cyclohexane	56		4.365				ND	
55 Carbon tetrachloride	117		4.469				ND	
57 Benzene	78		4.652				ND	
58 1,2-Dichloroethane	62		4.700				ND	
62 Trichloroethene	95		5.145				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.249				ND	
65 1,2-Dichloropropane	63		5.340				ND	
68 Dichlorobromomethane	83		5.566				ND	
72 cis-1,3-Dichloropropene	75		5.895				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.005				ND	
74 Toluene	92		6.127				ND	
77 trans-1,3-Dichloropropene	75		6.340				ND	
79 1,1,2-Trichloroethane	83		6.487				ND	
81 Tetrachloroethene	166		6.547				ND	
80 2-Hexanone	43		6.651				ND	
83 Chlorodibromomethane	129		6.797				ND	
84 Ethylene Dibromide	107		6.889				ND	
87 Chlorobenzene	112		7.249				ND	
88 Ethylbenzene	91		7.316				ND	
90 m-Xylene & p-Xylene	106		7.407				ND	
91 o-Xylene	106		7.736				ND	
92 Styrene	104		7.755				ND	
95 Bromoform	173		7.950				ND	
94 Isopropylbenzene	105		8.023				ND	
97 1,1,2,2-Tetrachloroethane	83		8.334				ND	
111 1,3-Dichlorobenzene	146		9.084				ND	
113 1,4-Dichlorobenzene	146		9.157				ND	
116 1,2-Dichlorobenzene	146		9.480				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.157				ND	
119 1,2,4-Trichlorobenzene	180		10.821				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

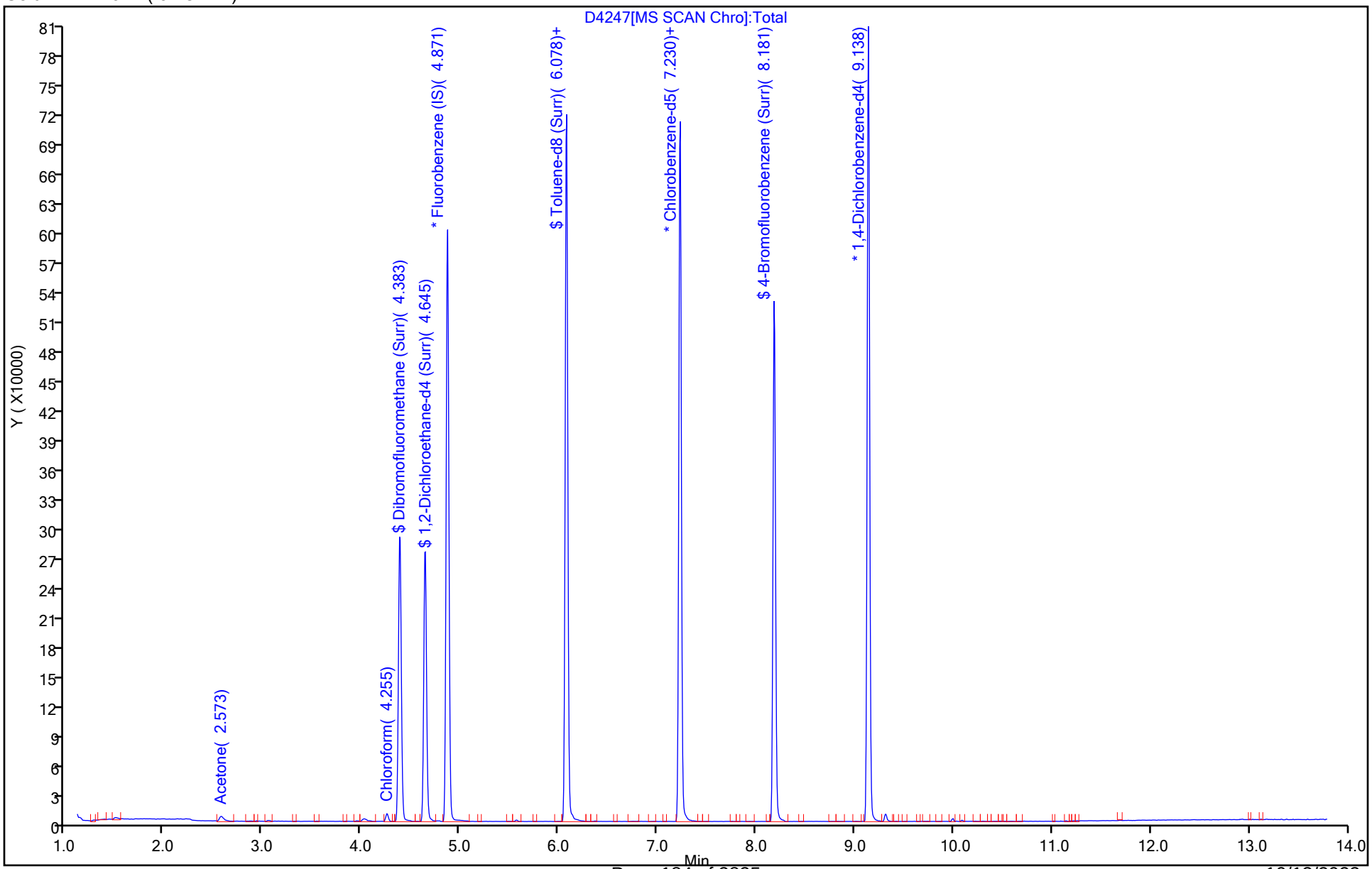
Report Date: 27-Sep-2023 07:48:46 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4247.d

Injection Date:	27-Sep-2023 01:38:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	480-213061-C-4	Lab Sample ID:	480-213061-4	Worklist Smp#:	36
Client ID:	EB-1-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
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Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4247.d
Lims ID: 480-213061-C-4
Client ID: EB-1-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 01:38:30 ALS Bottle#: 43 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-C-4
Misc. Info.: 480-0113980-036
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:47:55 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

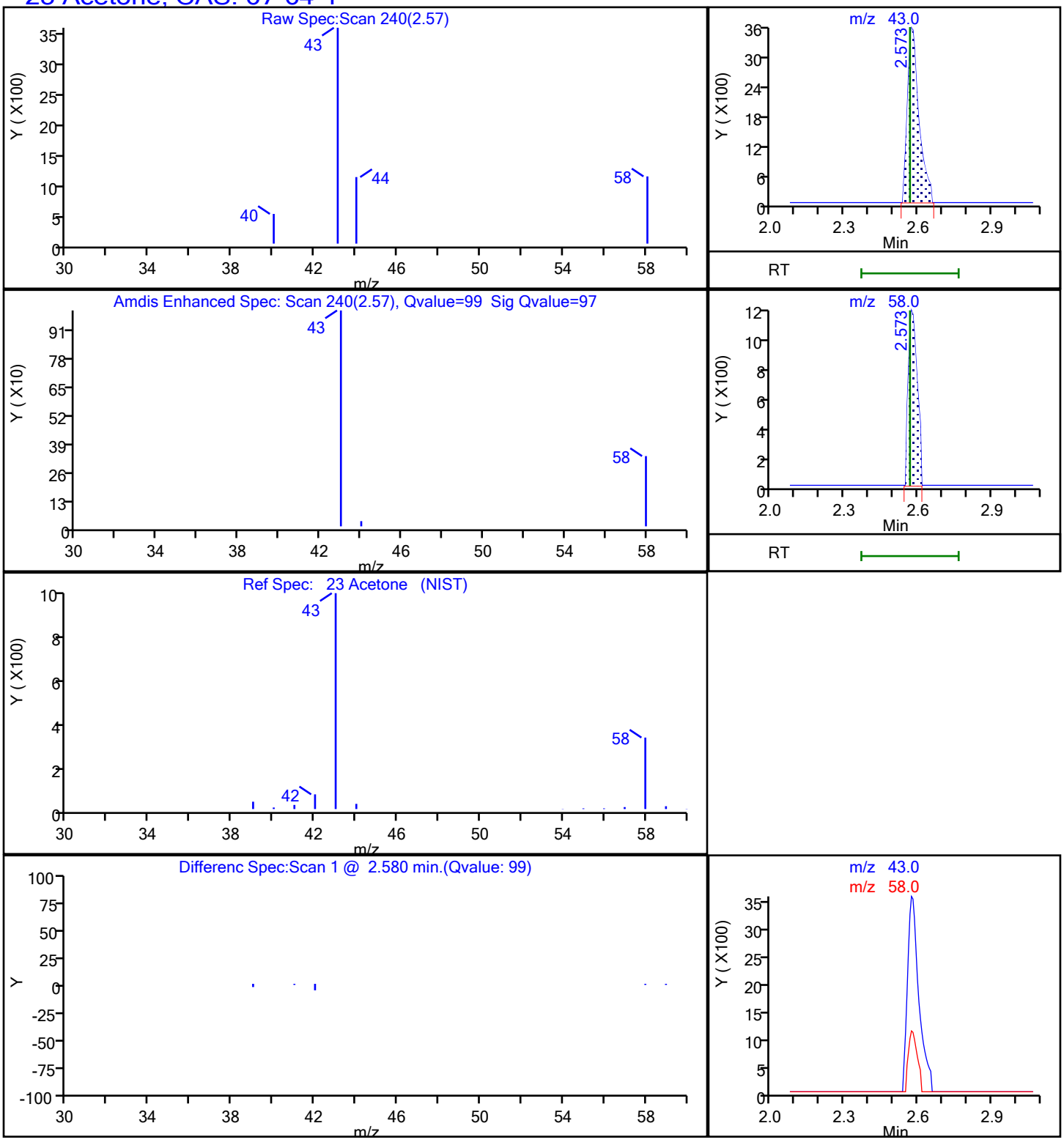
First Level Reviewer: QR3Z Date: 27-Sep-2023 07:48:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.4	97.61
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.4	97.68
$ 5 Toluene-d8 (Surr)	25.0	24.2	96.91
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.5	101.99

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4247.d
Injection Date: 27-Sep-2023 01:38:30 Instrument ID: HP5975D
Lims ID: 480-213061-C-4 Lab Sample ID: 480-213061-4
Client ID: EB-1-09252023
Operator ID: ZN ALS Bottle#: 43 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



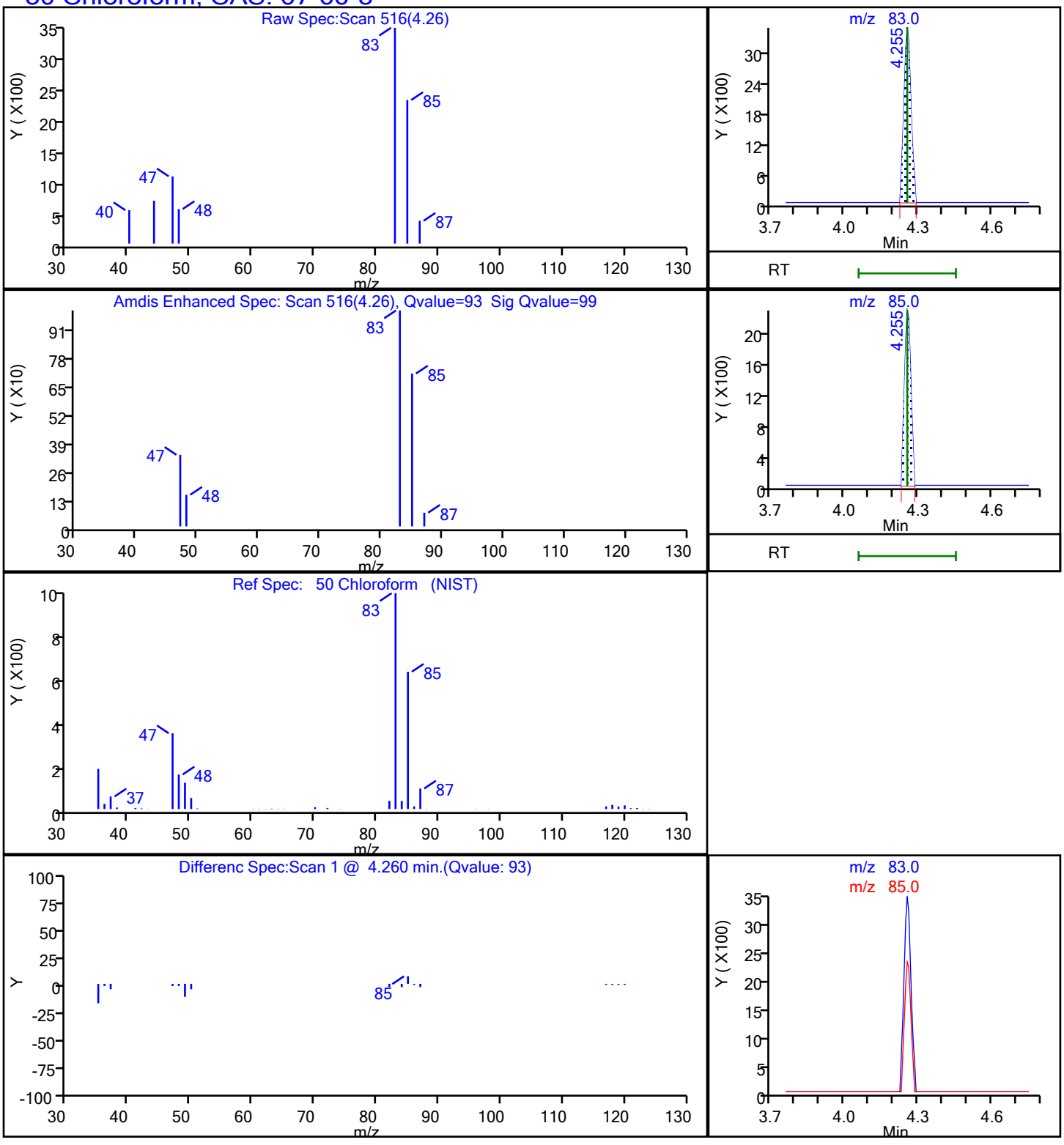
Report Date: 27-Sep-2023 07:48:46 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4247.d

Injection Date:	27-Sep-2023 01:38:30	Instrument ID:	HP5975D
Lims ID:	480-213061-C-4	Lab Sample ID:	480-213061-4
Client ID:	EB-1-09252023		
Operator ID:	ZN	ALS Bottle#:	43 Worklist Smp#: 36
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

50 Chloroform, CAS: 67-66-3



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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: TB-1-09252023 | Lab Sample ID: 480-213061-5

Matrix: Water | Lab File ID: D4248.d

Analysis Method: 8260C | Date Collected: 09/25/2023 15:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 02:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: TB-1-09252023 | Lab Sample ID: 480-213061-5

Matrix: Water | Lab File ID: D4248.d

Analysis Method: 8260C | Date Collected: 09/25/2023 15:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 02:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4248.d
Lims ID: 480-213061-A-5
Client ID: TB-1-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 02:00:30 ALS Bottle#: 44 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-A-5
Misc. Info.: 480-0113980-037
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:47:55 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:49:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	100206	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	212461	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.139	9.138	0.001	95	231519	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.383	0.006	92	181488	24.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.639	0.007	100	96018	24.6	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	465163	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.181	8.181	0.000	96	167567	25.5	
10 Dichlorodifluoromethane	85		1.170				ND	
12 Chloromethane	50		1.335				ND	
13 Vinyl chloride	62		1.420				ND	
14 Bromomethane	94		1.713				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.000				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.457				ND	
22 1,1-Dichloroethene	96		2.463				ND	
23 Acetone	43		2.567				ND	
26 Carbon disulfide	76		2.646				ND	
27 Methyl acetate	43		2.847				ND	
30 Methylene Chloride	84		2.932				ND	
32 Methyl tert-butyl ether	73		3.127				ND	
34 trans-1,2-Dichloroethene	96		3.140				ND	
39 1,1-Dichloroethane	63		3.511				ND	
45 cis-1,2-Dichloroethene	96		3.993				ND	
43 2-Butanone (MEK)	43		4.017				ND	
50 Chloroform	83		4.255				ND	
51 1,1,1-Trichloroethane	97		4.353				ND	
52 Cyclohexane	56		4.365				ND	
55 Carbon tetrachloride	117		4.469				ND	
57 Benzene	78		4.652				ND	
58 1,2-Dichloroethane	62		4.700				ND	
62 Trichloroethene	95		5.145				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.249				ND	
65 1,2-Dichloropropane	63		5.340				ND	
68 Dichlorobromomethane	83		5.566				ND	
72 cis-1,3-Dichloropropene	75		5.895				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.005				ND	
74 Toluene	92		6.127				ND	
77 trans-1,3-Dichloropropene	75		6.340				ND	
79 1,1,2-Trichloroethane	83		6.487				ND	
81 Tetrachloroethene	166		6.547				ND	
80 2-Hexanone	43		6.651				ND	
83 Chlorodibromomethane	129		6.797				ND	
84 Ethylene Dibromide	107		6.889				ND	
87 Chlorobenzene	112		7.249				ND	
88 Ethylbenzene	91		7.316				ND	
90 m-Xylene & p-Xylene	106		7.407				ND	
91 o-Xylene	106		7.736				ND	
92 Styrene	104		7.755				ND	
95 Bromoform	173		7.950				ND	
94 Isopropylbenzene	105		8.023				ND	
97 1,1,2,2-Tetrachloroethane	83		8.334				ND	
111 1,3-Dichlorobenzene	146		9.084				ND	
113 1,4-Dichlorobenzene	146		9.157				ND	
116 1,2-Dichlorobenzene	146		9.480				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.157				ND	
119 1,2,4-Trichlorobenzene	180		10.821				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

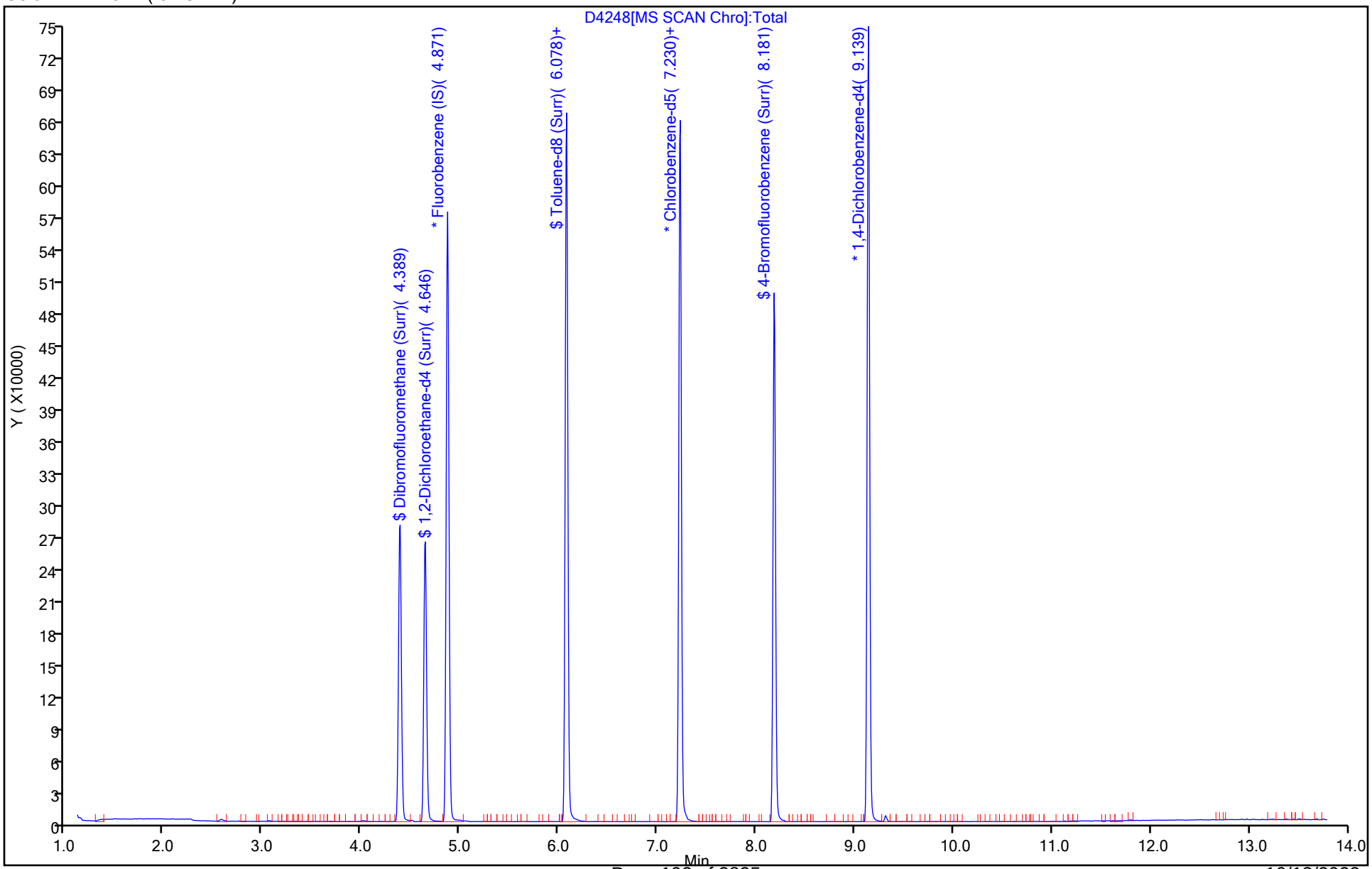
Report Date: 27-Sep-2023 07:49:03 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4248.d

Injection Date:	27-Sep-2023 02:00:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	480-213061-A-5	Lab Sample ID:	480-213061-5	Worklist Smp#:	37
Client ID:	TB-1-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4248.d
Lims ID: 480-213061-A-5
Client ID: TB-1-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 02:00:30 ALS Bottle#: 44 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-A-5
Misc. Info.: 480-0113980-037
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:47:55 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:49:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.5	98.08
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.6	98.41
$ 5 Toluene-d8 (Surr)	25.0	24.0	96.18
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.5	101.86

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-26S-09262023 | Lab Sample ID: 480-213117-1

Matrix: Water | Lab File ID: L1022.D

Analysis Method: 8260C | Date Collected: 09/26/2023 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 18:00

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-26S-09262023 | Lab Sample ID: 480-213117-1

Matrix: Water | Lab File ID: L1022.D

Analysis Method: 8260C | Date Collected: 09/26/2023 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 18:00

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1022.D
Lims ID: 480-213117-A-1
Client ID: GW-M-26S-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 18:00:23 ALS Bottle#: 0 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-1
Misc. Info.: 480-0113994-022
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:14:54 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:14:54

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	145063	25.0	
*	2 Chlorobenzene-d5	117	8.548	8.544	0.004	89	520223	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.949	0.004	96	273626	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	93	192574	25.8	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.419	5.419	0.000	97	232750	25.3	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	94	733632	27.4	
$	7 4-Bromofluorobenzene (Surr)	174	9.786	9.789	0.001	98	203515	27.2	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.052				ND	
	18 Bromomethane	94		2.419				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.724				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.187				ND	
	31 Acetone	43	3.265	3.268	-0.003	98	4320	1.20	
	35 Carbon disulfide	76		3.409				ND	
	38 Methyl acetate	43		3.525				ND	7
	39 Methylene Chloride	84		3.644				ND	
	41 Methyl tert-butyl ether	73		3.805				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.213				ND	
	58 cis-1,2-Dichloroethene	96		4.708				ND	
	57 2-Butanone (MEK)	43		4.718				ND	U
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117		5.236				ND	
	70 Benzene	78		5.435				ND	
	72 1,2-Dichloroethane	62		5.486				ND	
	75 Trichloroethene	95	5.985	5.985	0.000	81	2040	0.2253	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

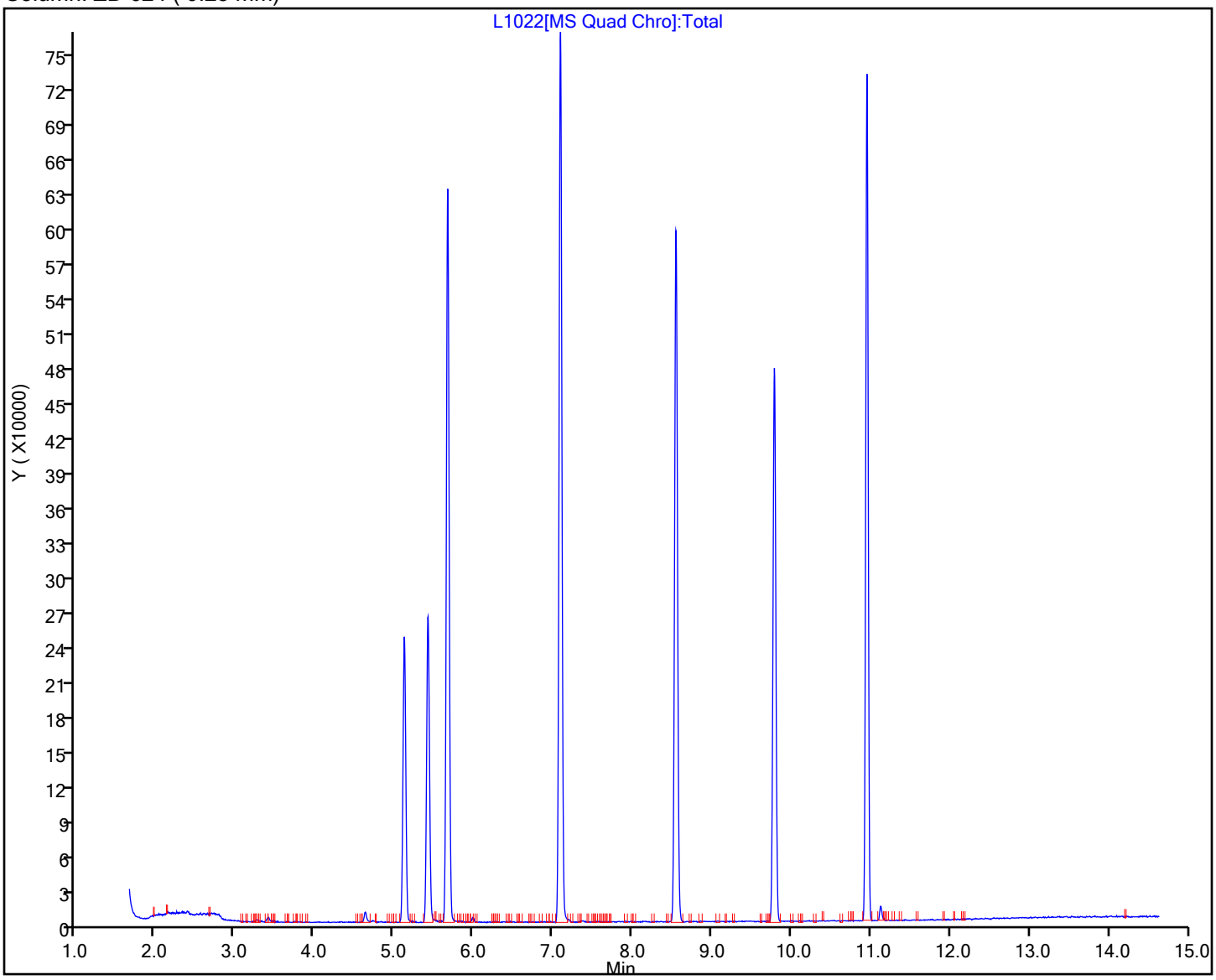
Report Date: 28-Sep-2023 11:14:54 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1022.D

Injection Date:	27-Sep-2023 18:00:23	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-1	Lab Sample ID:	480-213117-1		
Client ID:	GW-M-26S-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1022.D
Lims ID: 480-213117-A-1
Client ID: GW-M-26S-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 18:00:23 ALS Bottle#: 0 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-1
Misc. Info.: 480-0113994-022
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:14:54 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:14:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.8	103.27
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.3	101.01
$ 6 Toluene-d8 (Surr)	25.0	27.4	109.56
$ 7 4-Bromofluorobenzene (Surr)	25.0	27.2	108.69

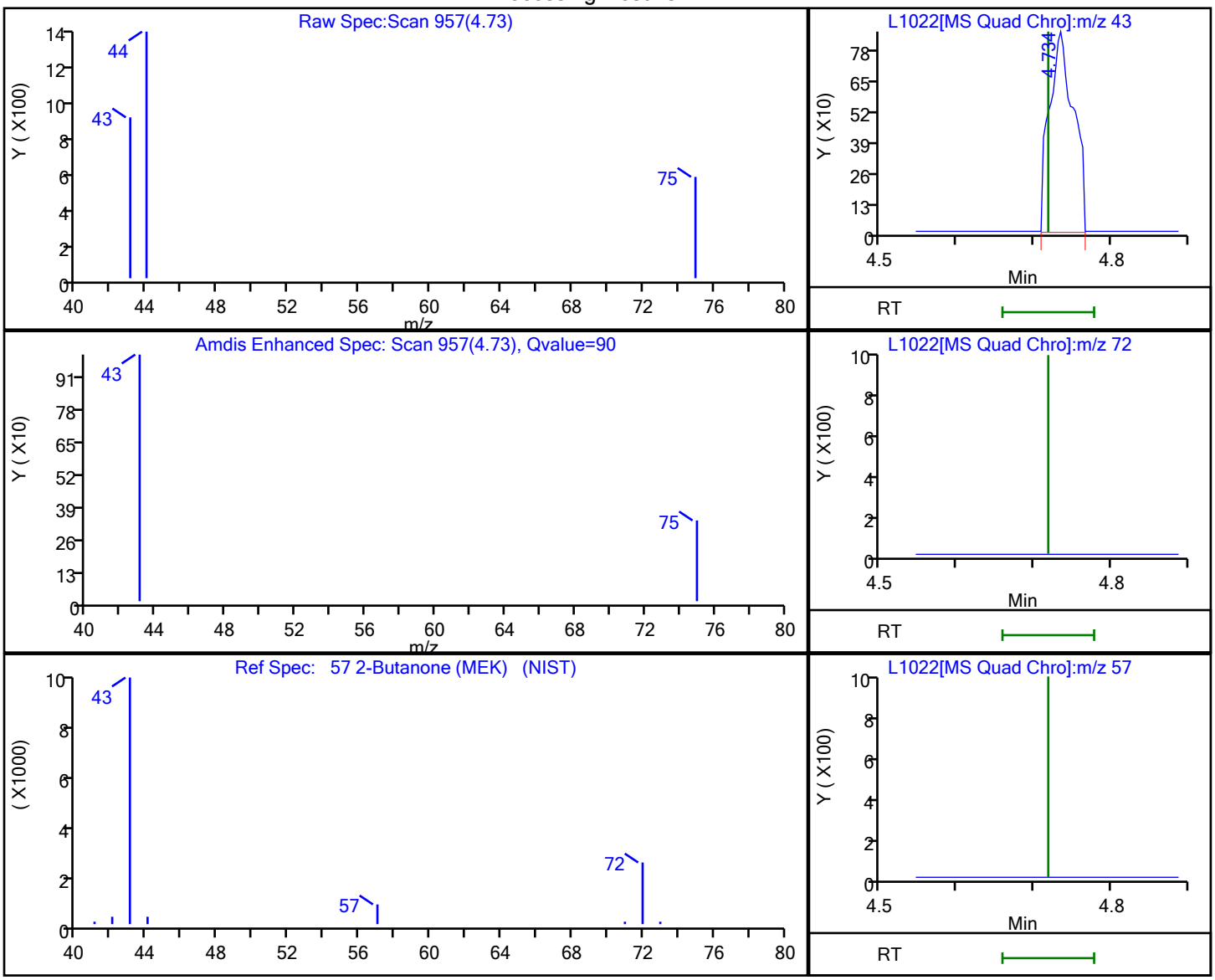
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1022.D				
Injection Date:	27-Sep-2023 18:00:23	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-1	Lab Sample ID:	480-213117-1		
Client ID:	GW-M-26S-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	1868	0.264900
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 28-Sep-2023 11:14:42 -04:00:00 (UTC)

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-26D-09262023 | Lab Sample ID: 480-213117-2

Matrix: Water | Lab File ID: L1023.D

Analysis Method: 8260C | Date Collected: 09/26/2023 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 18:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-26D-09262023 | Lab Sample ID: 480-213117-2

Matrix: Water | Lab File ID: L1023.D

Analysis Method: 8260C | Date Collected: 09/26/2023 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 18:24

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1023.D
Lims ID: 480-213117-A-2
Client ID: GW-M-26D-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 18:24:57 ALS Bottle#: 0 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-2
Misc. Info.: 480-0113994-023
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:15:34 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:15:34

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	147129	25.0	
*	2 Chlorobenzene-d5	117	8.548	8.544	0.004	86	549258	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.949	0.004	96	314950	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	92	193617	25.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	97	229114	24.5	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	94	719228	25.4	
$	7 4-Bromofluorobenzene (Surr)	174	9.785	9.789	0.000	97	192620	24.4	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.052				ND	
	18 Bromomethane	94		2.419				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.724				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.187				ND	
	31 Acetone	43	3.278	3.268	0.010	99	7076	1.95	
	35 Carbon disulfide	76		3.409				ND	
	38 Methyl acetate	43		3.525				ND	7
	39 Methylene Chloride	84		3.644				ND	
	41 Methyl tert-butyl ether	73		3.805				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.213				ND	
	58 cis-1,2-Dichloroethene	96		4.708				ND	
	57 2-Butanone (MEK)	43		4.718				ND	U
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117		5.236				ND	
	70 Benzene	78		5.435				ND	
	72 1,2-Dichloroethane	62		5.486				ND	
	75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

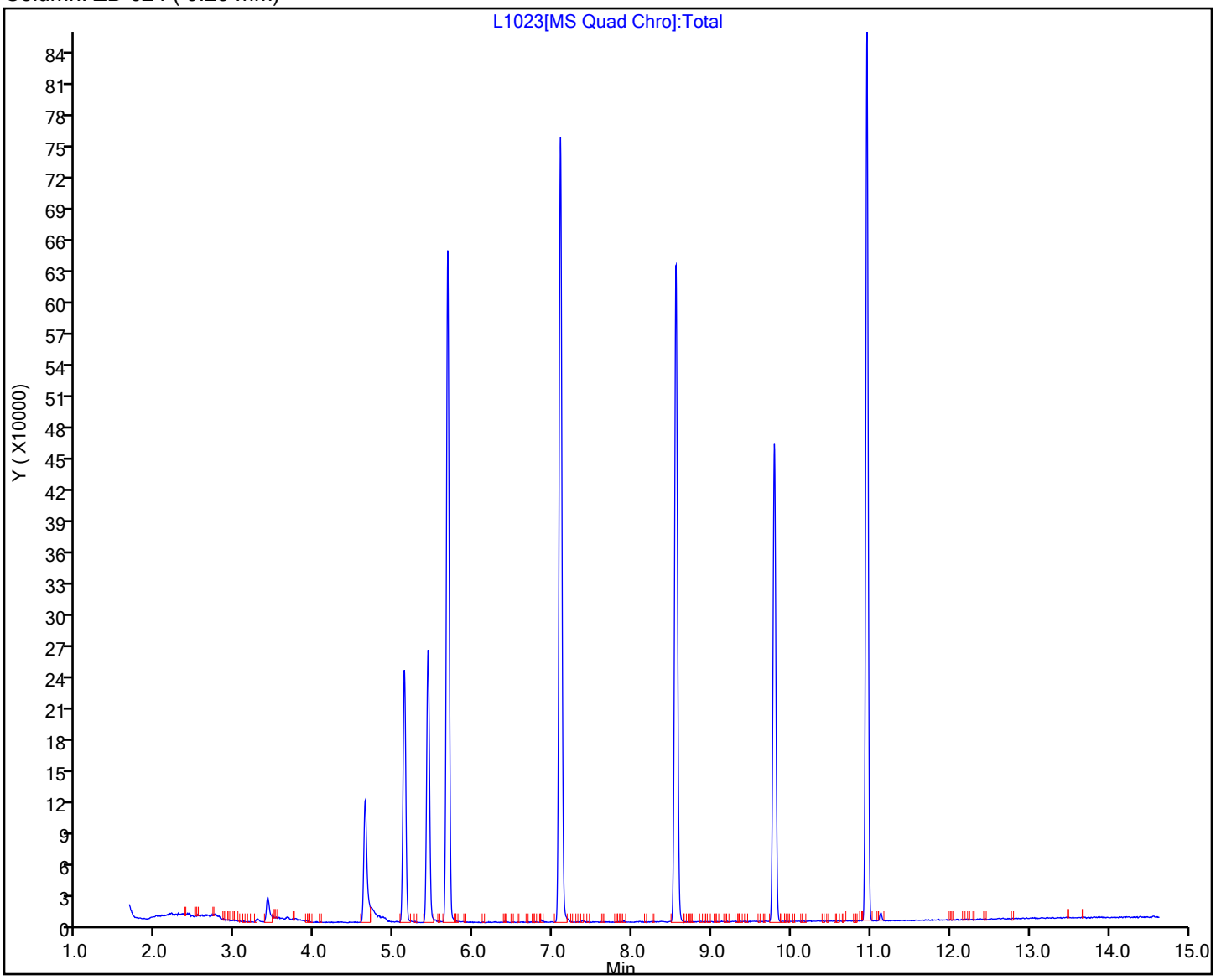
Report Date: 28-Sep-2023 11:15:35 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1023.D

Injection Date:	27-Sep-2023 18:24:57	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-2	Lab Sample ID:	480-213117-2		
Client ID:	GW-M-26D-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1023.D
Lims ID: 480-213117-A-2
Client ID: GW-M-26D-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 18:24:57 ALS Bottle#: 0 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-2
Misc. Info.: 480-0113994-023
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:15:34 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:15:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.6	102.37
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.5	98.04
$ 6 Toluene-d8 (Surr)	25.0	25.4	101.73
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.4	97.43

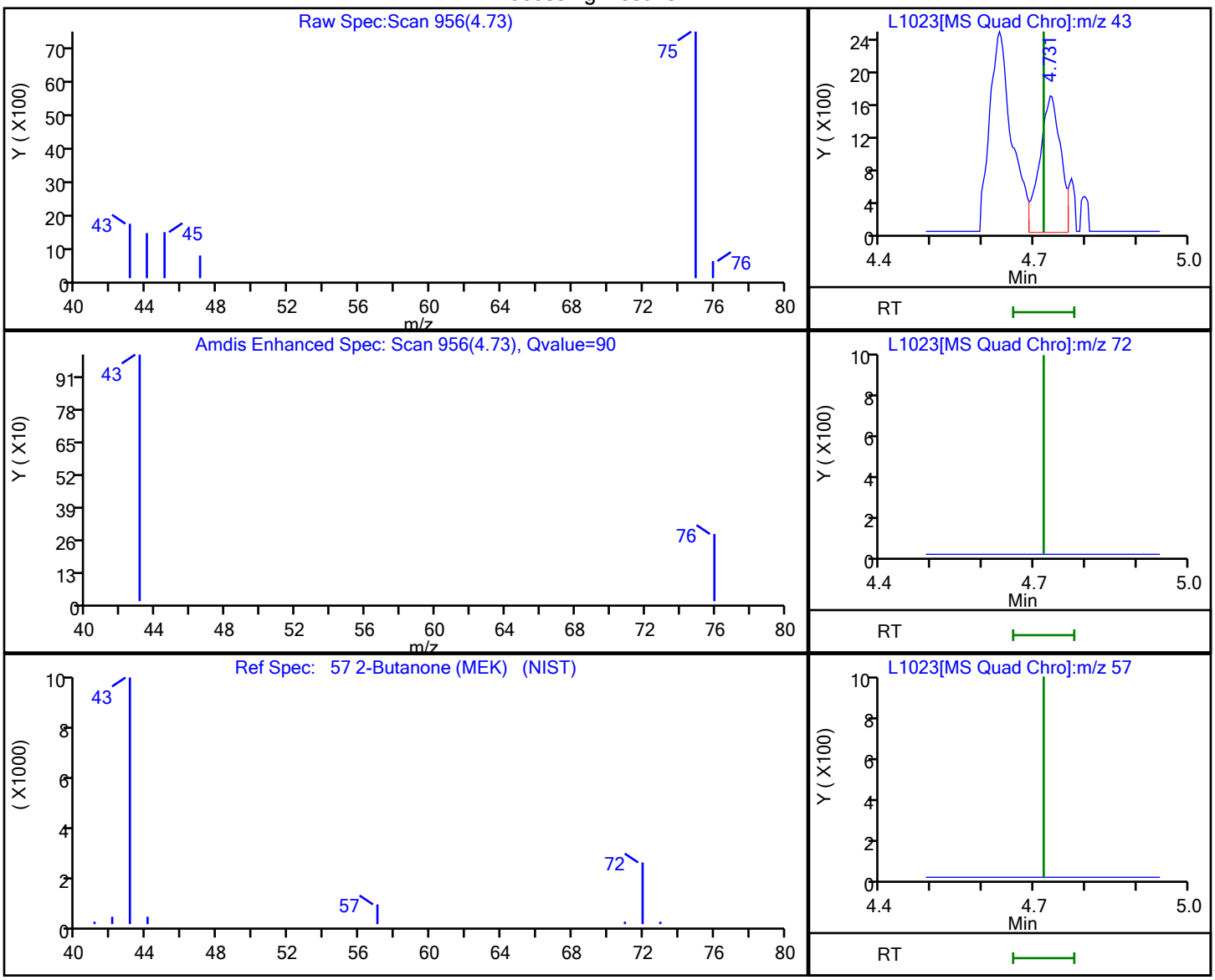
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1023.D				
Injection Date:	27-Sep-2023 18:24:57	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-2	Lab Sample ID:	480-213117-2		
Client ID:	GW-M-26D-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	4728	0.661060
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 28-Sep-2023 11:15:03 -04:00:00 (UTC)

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-11D-09262023 | Lab Sample ID: 480-213117-3

Matrix: Water | Lab File ID: L1024.D

Analysis Method: 8260C | Date Collected: 09/26/2023 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 18:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	4.7		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	0.50	J	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-11D-09262023 | Lab Sample ID: 480-213117-3

Matrix: Water | Lab File ID: L1024.D

Analysis Method: 8260C | Date Collected: 09/26/2023 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 18:49

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.4		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1024.D
Lims ID: 480-213117-A-3
Client ID: GW-11D-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 18:49:13 ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-3
Misc. Info.: 480-0113994-024
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:16:33 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:16:33

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	144488	25.0	
*	2 Chlorobenzene-d5	117	8.548	8.544	0.004	86	559777	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.949	0.004	96	302248	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	93	189946	25.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	97	235689	25.7	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	94	741279	25.7	
$	7 4-Bromofluorobenzene (Surr)	174	9.785	9.789	0.000	97	202363	25.1	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.052				ND	
	18 Bromomethane	94		2.419				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.724				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.187				ND	
	31 Acetone	43	3.271	3.268	0.003	97	7633	2.14	
	35 Carbon disulfide	76		3.409				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.644				ND	
	41 Methyl tert-butyl ether	73		3.805				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.213				ND	
	58 cis-1,2-Dichloroethene	96		4.708				ND	
	57 2-Butanone (MEK)	43		4.718				ND	U
	62 Chloroform	83	4.978	4.975	0.003	92	7934	0.4997	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117	5.239	5.236	0.003	96	44664	4.66	
	70 Benzene	78		5.435				ND	
	72 1,2-Dichloroethane	62		5.486				ND	
	75 Trichloroethene	95	5.982	5.985	-0.003	97	12912	1.43	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 28-Sep-2023 11:16:34 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1024.D

Injection Date: 27-Sep-2023 18:49:13 Instrument ID: HP5977L

Lims ID: 480-213117-A-3 Lab Sample ID: 480-213117-3

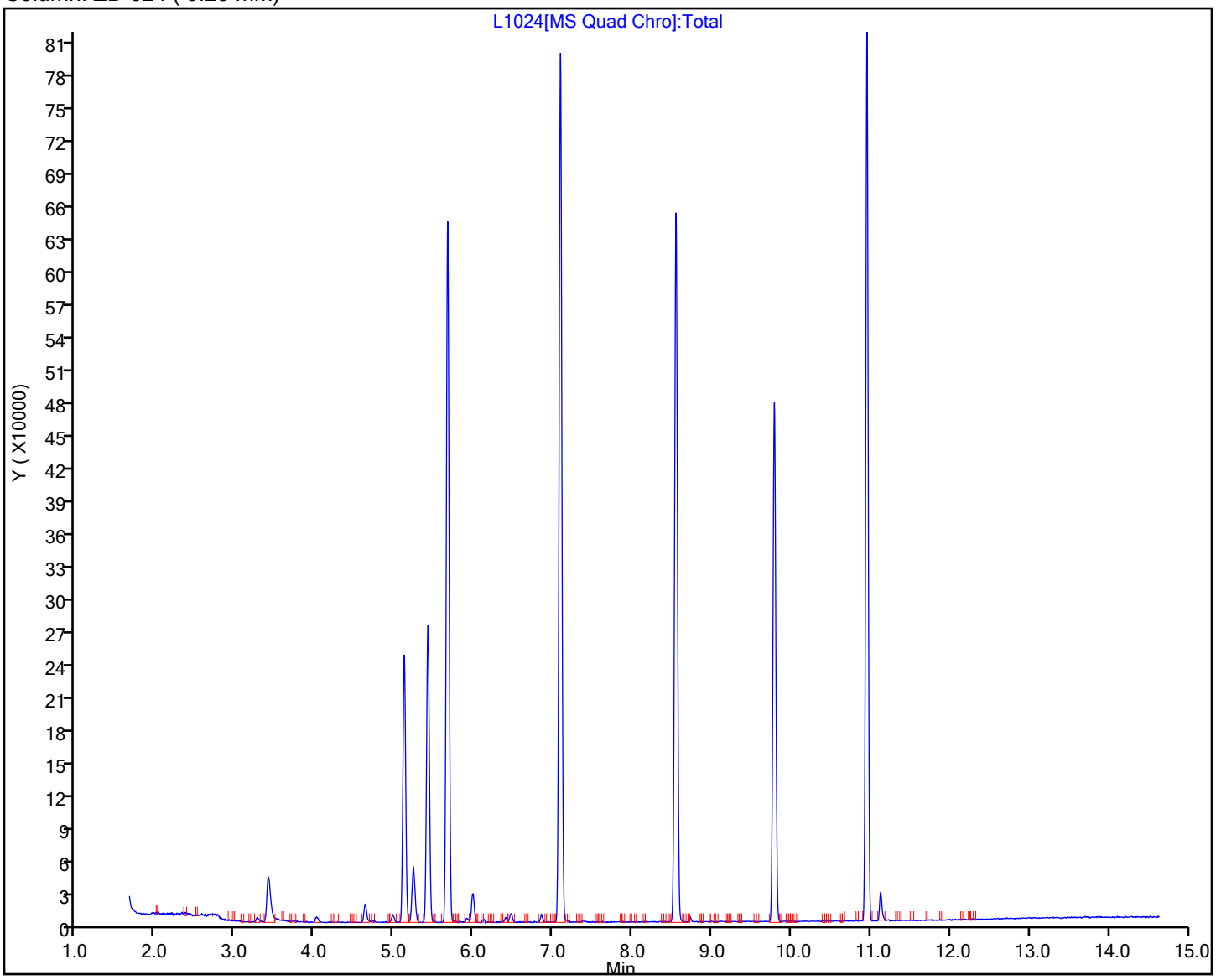
Client ID: GW-11D-09262023

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 24

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1024.D
Lims ID: 480-213117-A-3
Client ID: GW-11D-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 18:49:13 ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-3
Misc. Info.: 480-0113994-024
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:16:33 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:16:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.6	102.27
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.7	102.70
$ 6 Toluene-d8 (Surr)	25.0	25.7	102.88
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.1	100.44

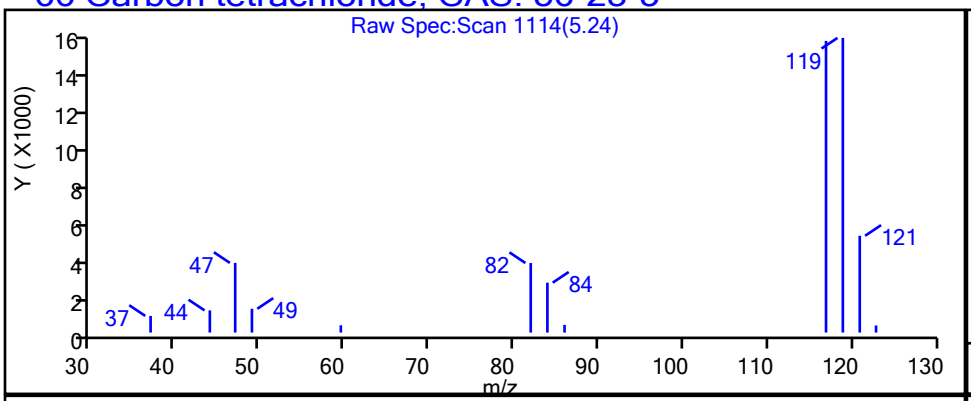
Report Date: 28-Sep-2023 11:16:34 Chrom Revision: 2.3 22-Sep-2023 11:33:50

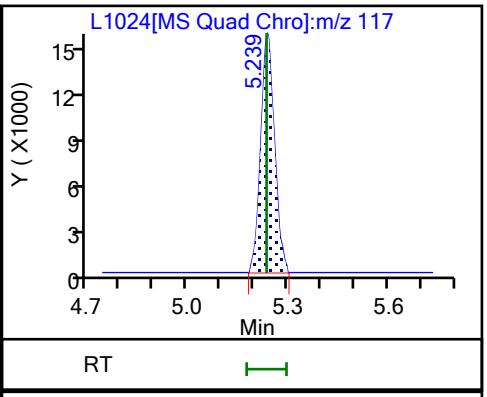
Eurofins Buffalo

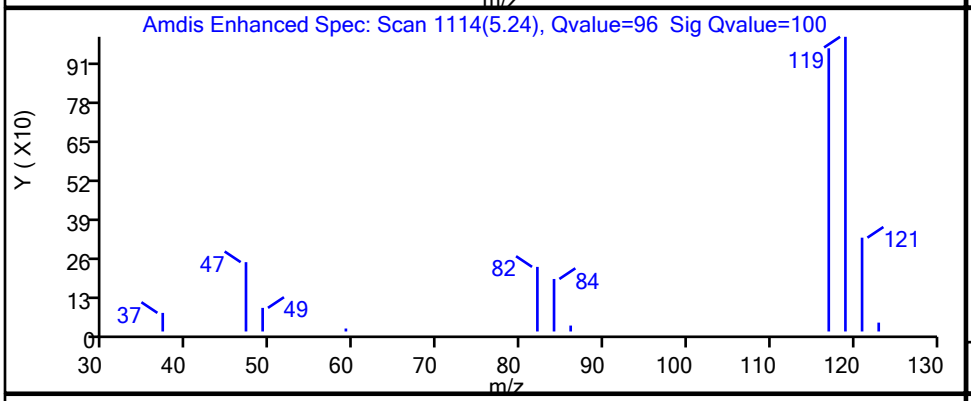
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1024.D

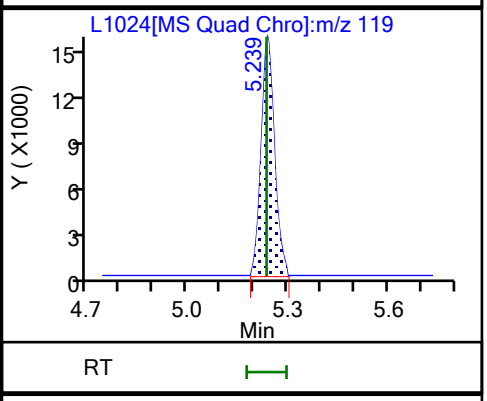
Injection Date:	27-Sep-2023 18:49:13	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-3	Lab Sample ID:	480-213117-3		
Client ID:	GW-11D-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

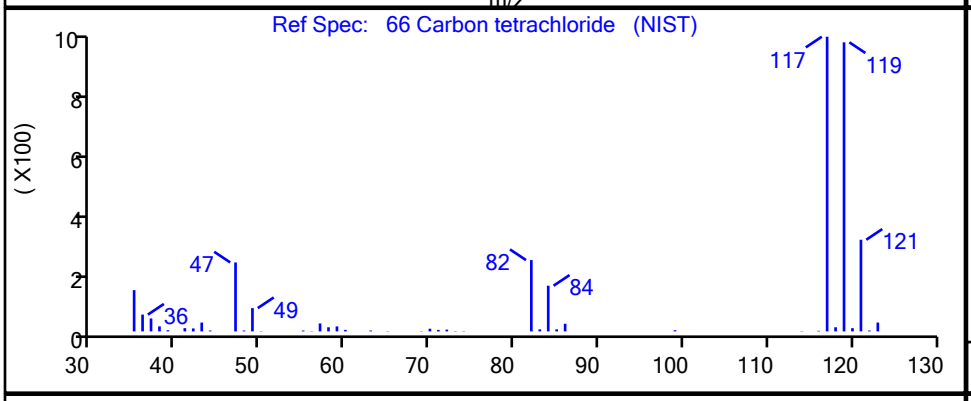
66 Carbon tetrachloride, CAS: 56-23-5

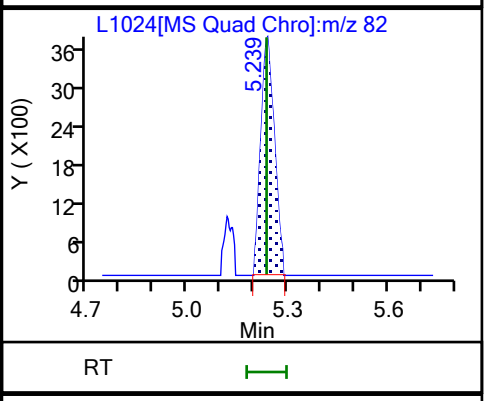


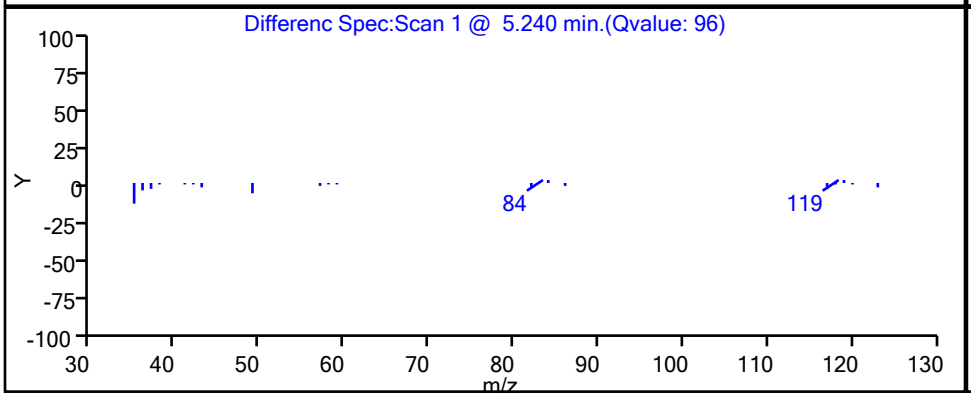


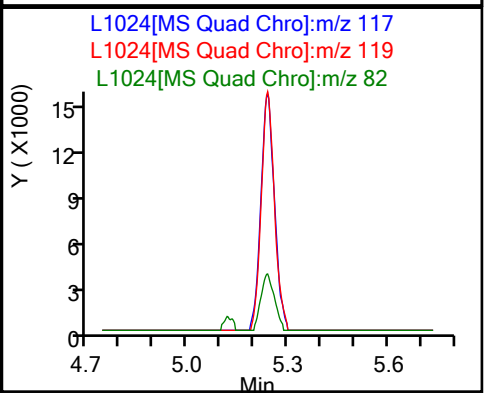








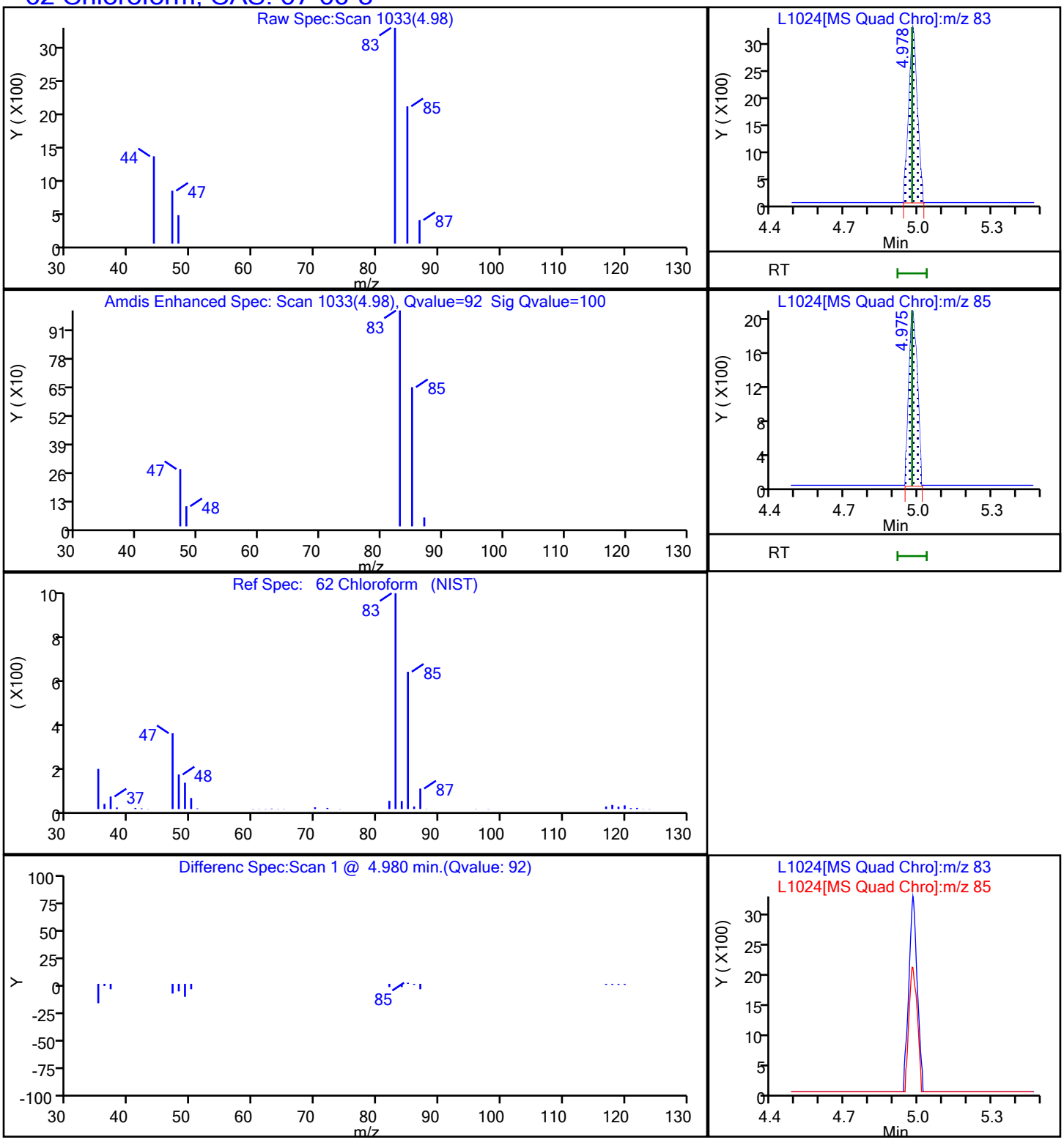




Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1024.D
Injection Date: 27-Sep-2023 18:49:13 Instrument ID: HP5977L
Lims ID: 480-213117-A-3 Lab Sample ID: 480-213117-3
Client ID: GW-11D-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

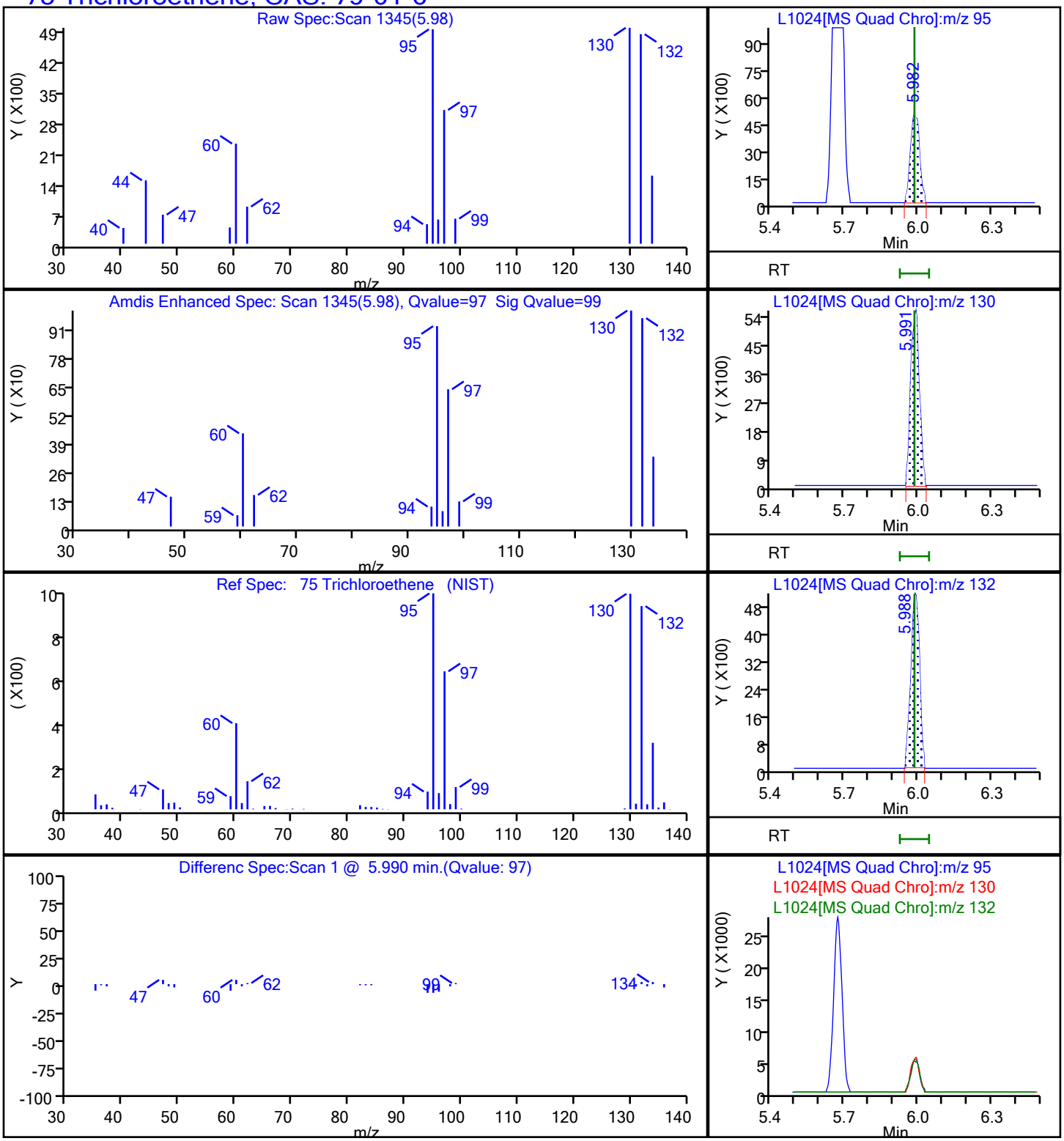
62 Chloroform, CAS: 67-66-3



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1024.D
Injection Date: 27-Sep-2023 18:49:13 Instrument ID: HP5977L
Lims ID: 480-213117-A-3 Lab Sample ID: 480-213117-3
Client ID: GW-11D-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

75 Trichloroethene, CAS: 79-01-6



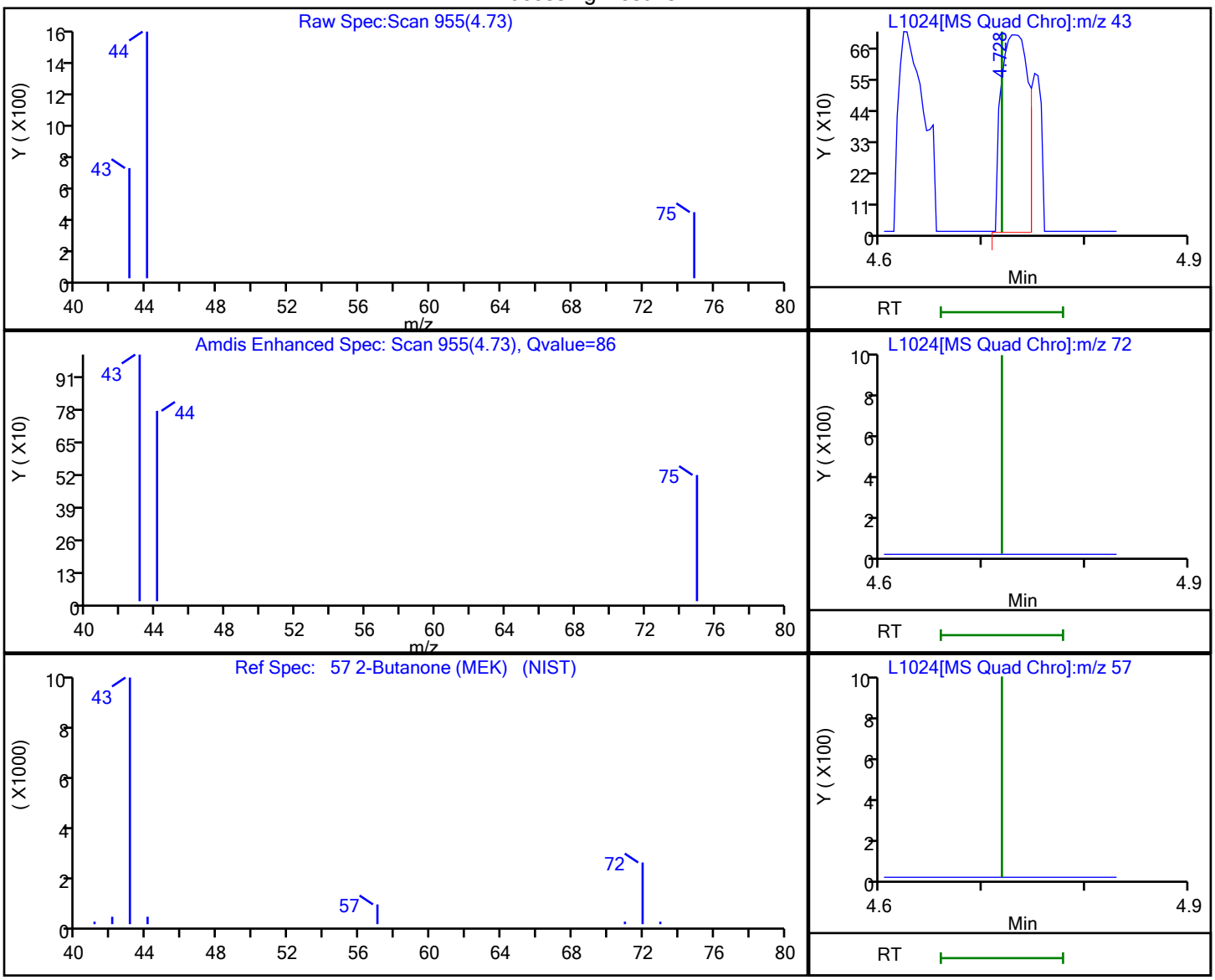
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1024.D
Injection Date: 27-Sep-2023 18:49:13 Instrument ID: HP5977L
Lims ID: 480-213117-A-3 Lab Sample ID: 480-213117-3
Client ID: GW-11D-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	1308	0.186225
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 28-Sep-2023 11:15:48 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: DUP-2-09262023 | Lab Sample ID: 480-213117-4

Matrix: Water | Lab File ID: L1025.D

Analysis Method: 8260C | Date Collected: 09/26/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 19:13

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: DUP-2-09262023 | Lab Sample ID: 480-213117-4

Matrix: Water | Lab File ID: L1025.D

Analysis Method: 8260C | Date Collected: 09/26/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 19:13

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1025.D
Lims ID: 480-213117-A-4
Client ID: DUP-2-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 19:13:45 ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-4
Misc. Info.: 480-0113994-025
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:16:50 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:16:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	152065	25.0	
* 2 Chlorobenzene-d5	117	8.544	8.544	0.000	86	607973	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.949	0.004	96	330544	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	92	187674	24.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	97	238157	24.7	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	93	770054	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.789	9.789	0.004	97	212205	24.2	
10 Dichlorodifluoromethane	85		1.721				ND	
13 Chloromethane	50		1.940				ND	
14 Vinyl chloride	62		2.052				ND	
18 Bromomethane	94		2.419				ND	
19 Chloroethane	64		2.483				ND	
21 Trichlorofluoromethane	101		2.724				ND	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
30 1,1-Dichloroethene	96		3.187				ND	
31 Acetone	43		3.268				ND	
35 Carbon disulfide	76		3.409				ND	
38 Methyl acetate	43		3.525				ND	
39 Methylene Chloride	84		3.644				ND	
41 Methyl tert-butyl ether	73		3.805				ND	
42 trans-1,2-Dichloroethene	96		3.837				ND	
50 1,1-Dichloroethane	63		4.213				ND	
58 cis-1,2-Dichloroethene	96		4.708				ND	
57 2-Butanone (MEK)	43		4.718				ND	U
62 Chloroform	83		4.975				ND	
64 1,1,1-Trichloroethane	97		5.107				ND	
65 Cyclohexane	56		5.126				ND	
66 Carbon tetrachloride	117		5.236				ND	
70 Benzene	78		5.435				ND	
72 1,2-Dichloroethane	62		5.486				ND	
75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

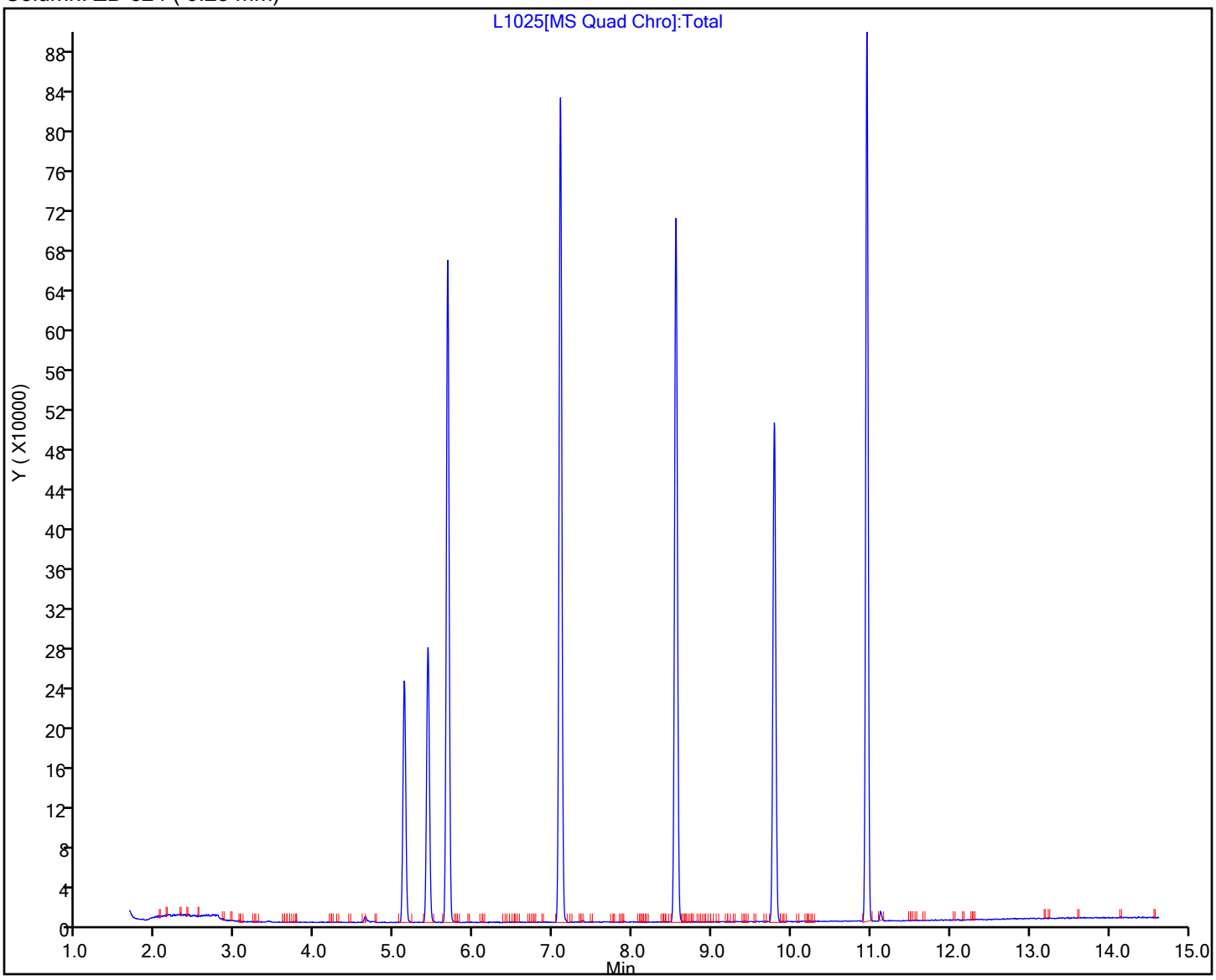
Report Date: 28-Sep-2023 11:16:50 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1025.D

Injection Date:	27-Sep-2023 19:13:45	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-4	Lab Sample ID:	480-213117-4		
Client ID:	DUP-2-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1025.D
Lims ID: 480-213117-A-4
Client ID: DUP-2-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 19:13:45 ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-4
Misc. Info.: 480-0113994-025
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:16:50 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:16:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	24.0	96.01
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.7	98.60
$ 6 Toluene-d8 (Surr)	25.0	24.6	98.40
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.2	96.97

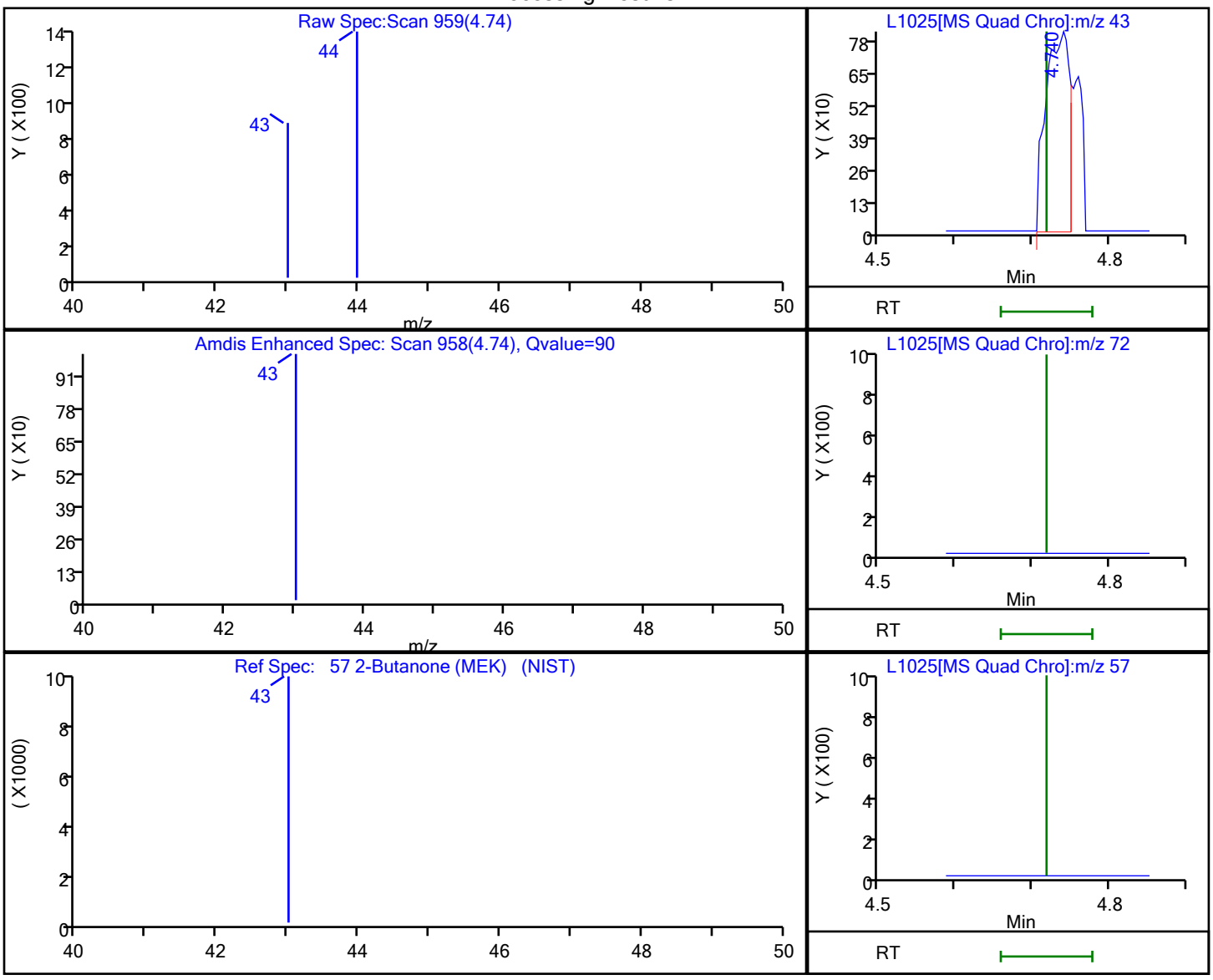
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1025.D
Injection Date: 27-Sep-2023 19:13:45 Instrument ID: HP5977L
Lims ID: 480-213117-A-4 Lab Sample ID: 480-213117-4
Client ID: DUP-2-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Processing Results



RT	Mass	Response	Amount
4.74	43.00	1751	0.236875
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 28-Sep-2023 11:16:42 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023 | Lab Sample ID: 480-213117-5

Matrix: Water | Lab File ID: L1026.D

Analysis Method: 8260C | Date Collected: 09/26/2023 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 19:37

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U F2	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U F2	10	1.3
591-78-6	2-Hexanone	5.0	U F2	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U F2	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U F2	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U F2	1.0	0.19
56-23-5	Carbon tetrachloride	0.43	J	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U F2	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023 | Lab Sample ID: 480-213117-5

Matrix: Water | Lab File ID: L1026.D

Analysis Method: 8260C | Date Collected: 09/26/2023 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 19:37

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U F2	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	0.73	J	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1026.D
Lims ID: 480-213117-A-5
Client ID: GW-10S-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 19:37:51 ALS Bottle#: 0 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-5
Misc. Info.: 480-0113994-026
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:17:15 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:17:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	143423	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.544	0.004	87	528438	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.949	10.949	0.000	96	299598	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	93	187650	25.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	98	234318	25.7	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	94	692262	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.789	0.000	97	184325	24.2	
10 Dichlorodifluoromethane	85		1.721				ND	
13 Chloromethane	50		1.940				ND	
14 Vinyl chloride	62		2.052				ND	
18 Bromomethane	94		2.419				ND	
19 Chloroethane	64		2.483				ND	
21 Trichlorofluoromethane	101		2.724				ND	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
30 1,1-Dichloroethene	96		3.187				ND	
31 Acetone	43		3.268				ND	U
35 Carbon disulfide	76		3.409				ND	
38 Methyl acetate	43		3.525				ND	
39 Methylene Chloride	84		3.644				ND	
41 Methyl tert-butyl ether	73		3.805				ND	
42 trans-1,2-Dichloroethene	96		3.837				ND	
50 1,1-Dichloroethane	63		4.213				ND	
58 cis-1,2-Dichloroethene	96		4.708				ND	
57 2-Butanone (MEK)	43		4.718				ND	U
62 Chloroform	83		4.975				ND	
64 1,1,1-Trichloroethane	97		5.107				ND	
65 Cyclohexane	56		5.126				ND	
66 Carbon tetrachloride	117	5.236	5.236	0.000	95	4064	0.4274	
70 Benzene	78		5.435				ND	
72 1,2-Dichloroethane	62		5.486				ND	
75 Trichloroethene	95	5.982	5.985	-0.003	95	6496	0.7257	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 28-Sep-2023 11:17:15 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1026.D

Injection Date: 27-Sep-2023 19:37:51 Instrument ID: HP5977L

Lims ID: 480-213117-A-5 Lab Sample ID: 480-213117-5

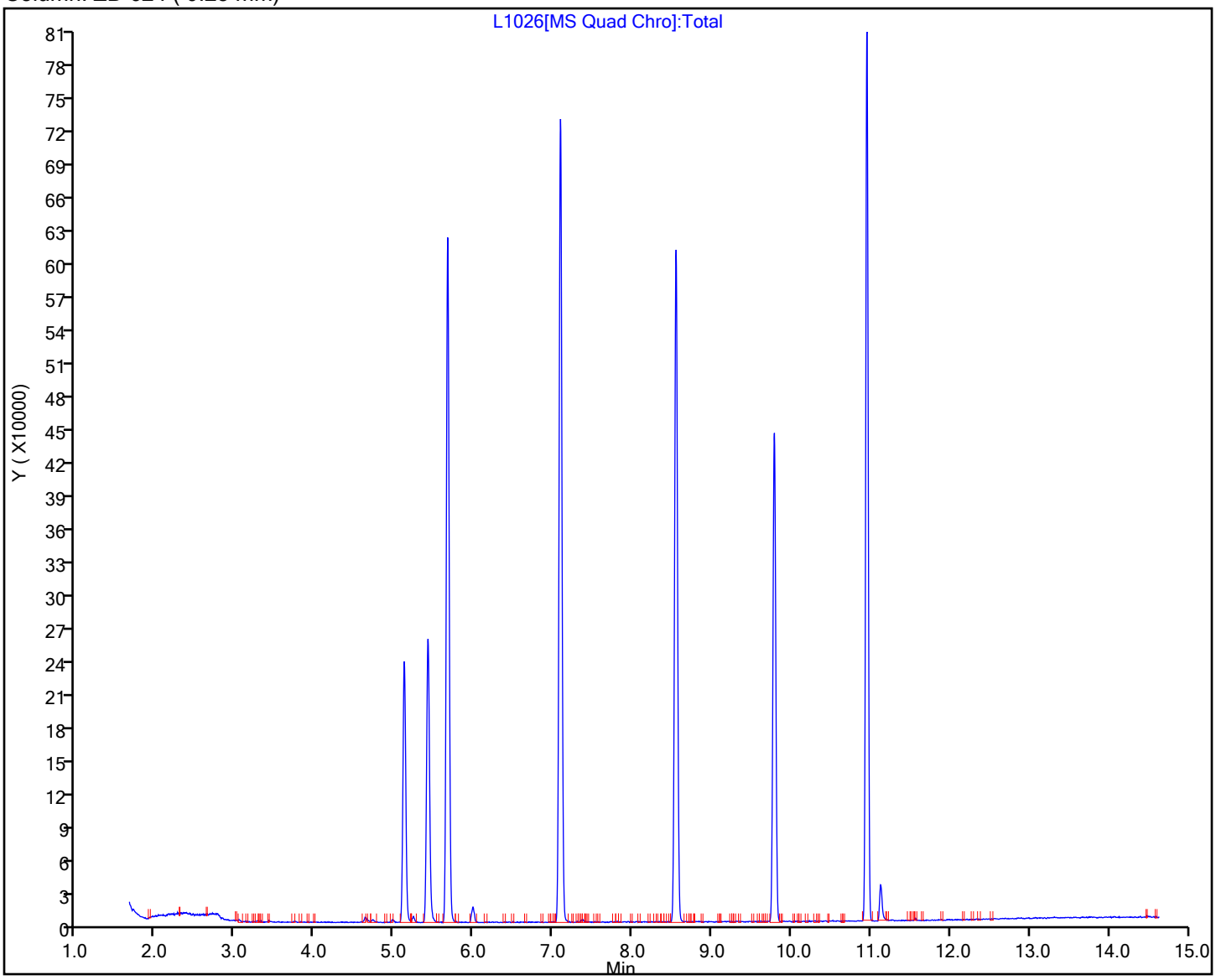
Client ID: GW-10S-09262023

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 26

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1026.D
Lims ID: 480-213117-A-5
Client ID: GW-10S-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 19:37:51 ALS Bottle#: 0 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-5
Misc. Info.: 480-0113994-026
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:17:15 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:17:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.4	101.78
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.7	102.86
$ 6 Toluene-d8 (Surr)	25.0	25.4	101.78
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.2	96.91

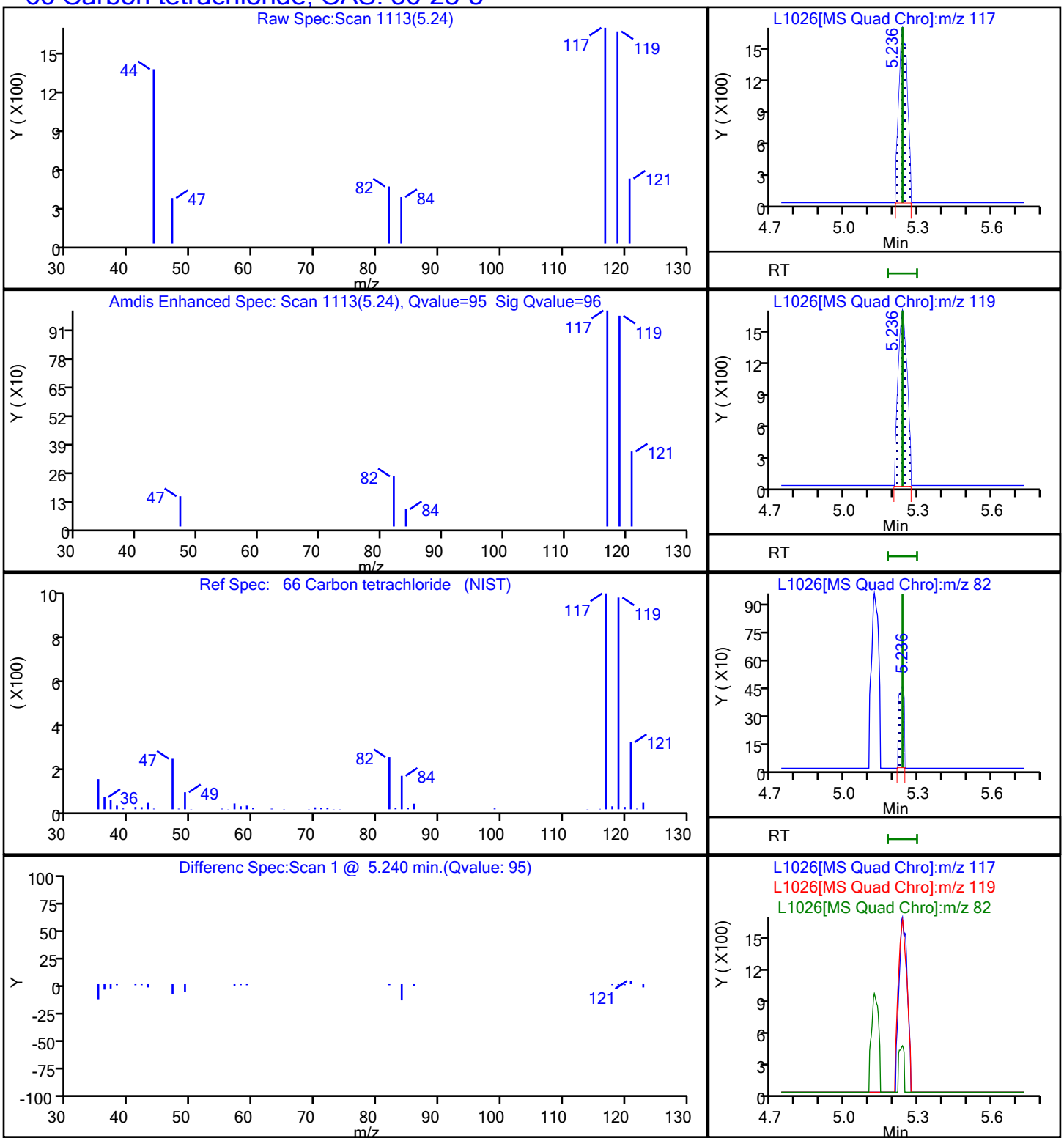
Report Date: 28-Sep-2023 11:17:15 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1026.D

Injection Date:	27-Sep-2023 19:37:51	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-5	Lab Sample ID:	480-213117-5		
Client ID:	GW-10S-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

66 Carbon tetrachloride, CAS: 56-23-5



10/13/2023
10:08 AM

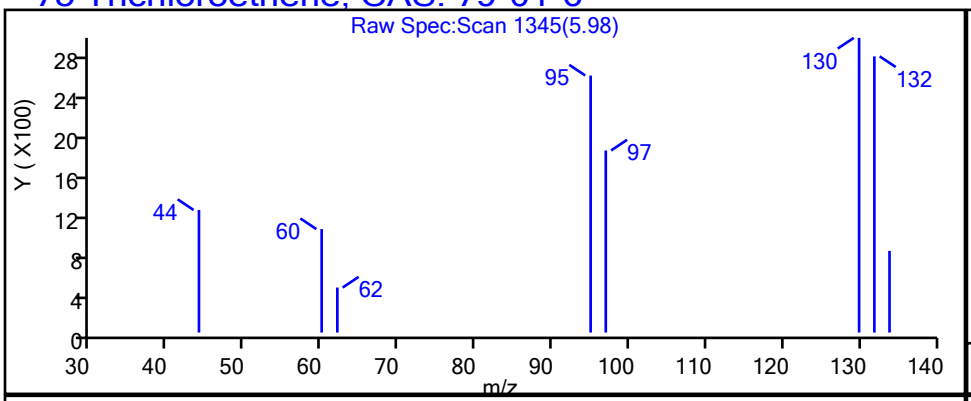
Report Date: 28-Sep-2023 11:17:15 Chrom Revision: 2.3 22-Sep-2023 11:33:50

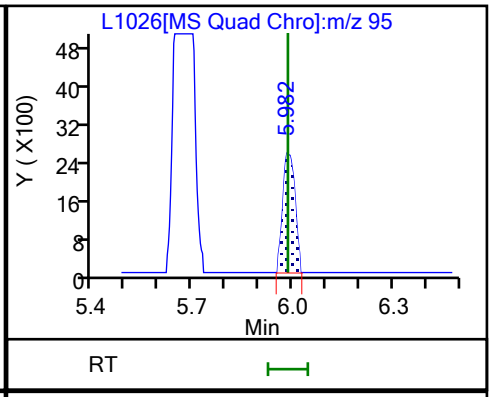
Eurofins Buffalo

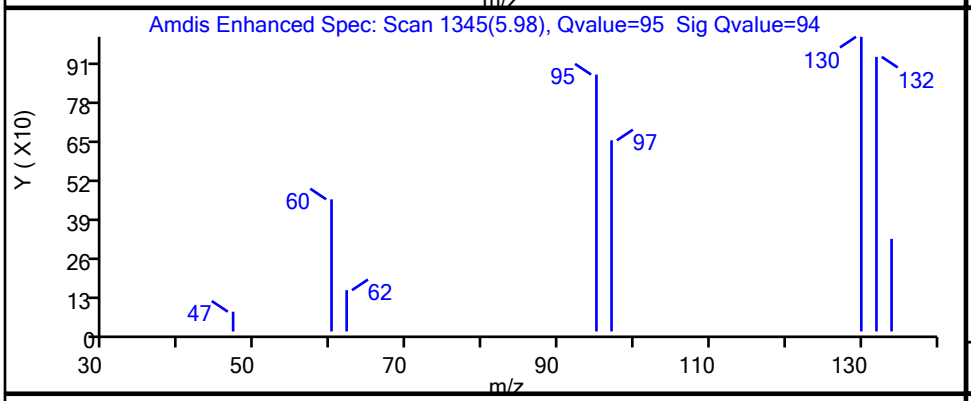
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1026.D

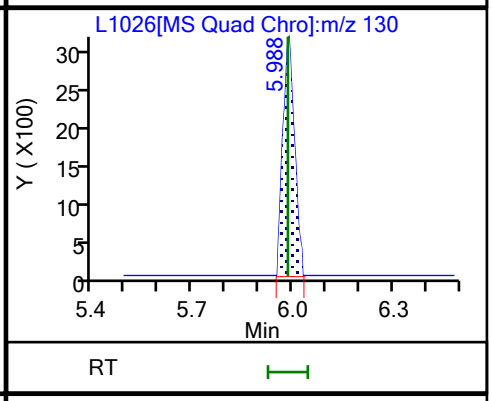
Injection Date:	27-Sep-2023 19:37:51	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-5	Lab Sample ID:	480-213117-5		
Client ID:	GW-10S-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

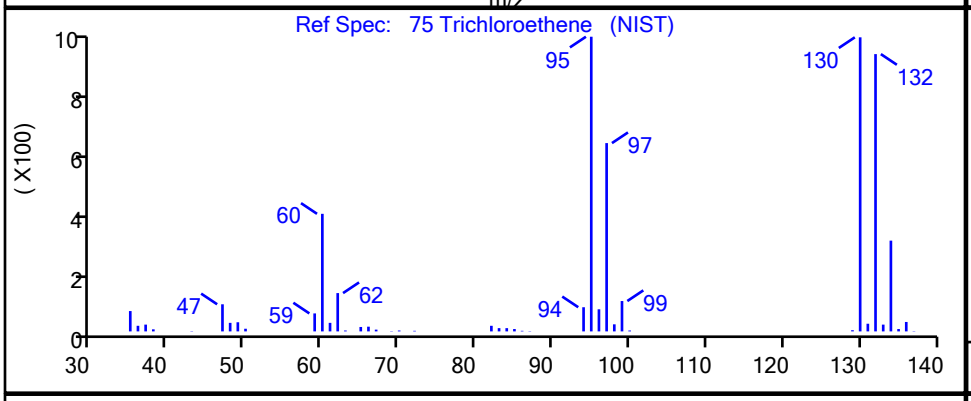
75 Trichloroethene, CAS: 79-01-6

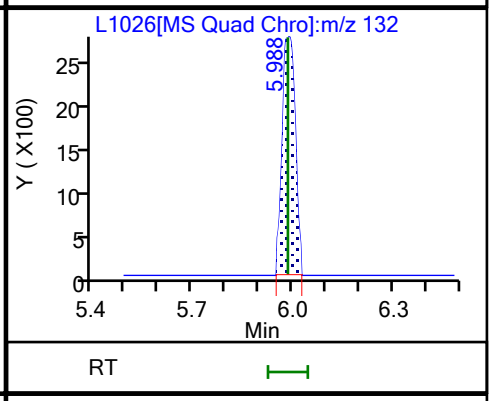


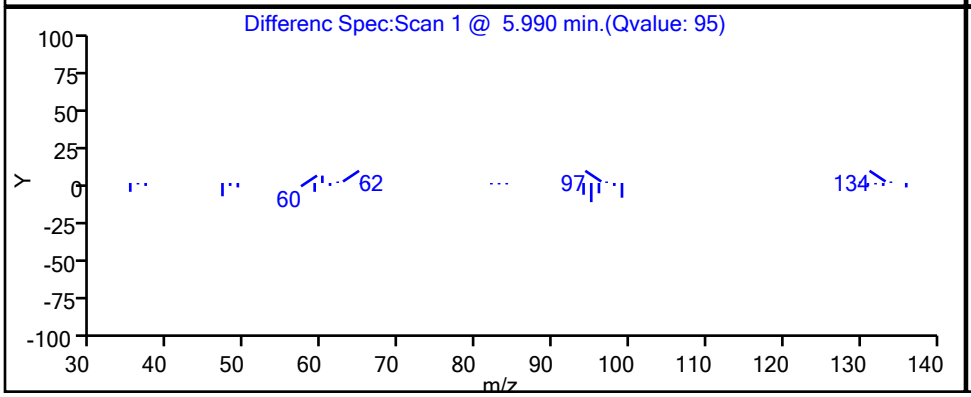


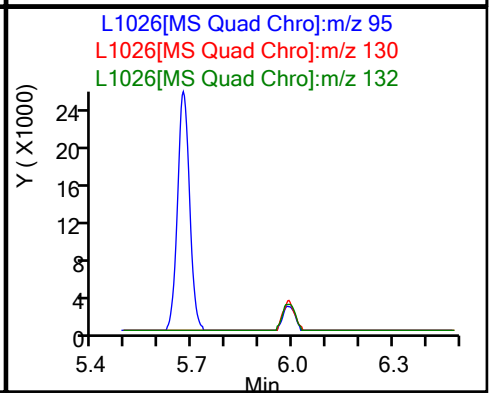












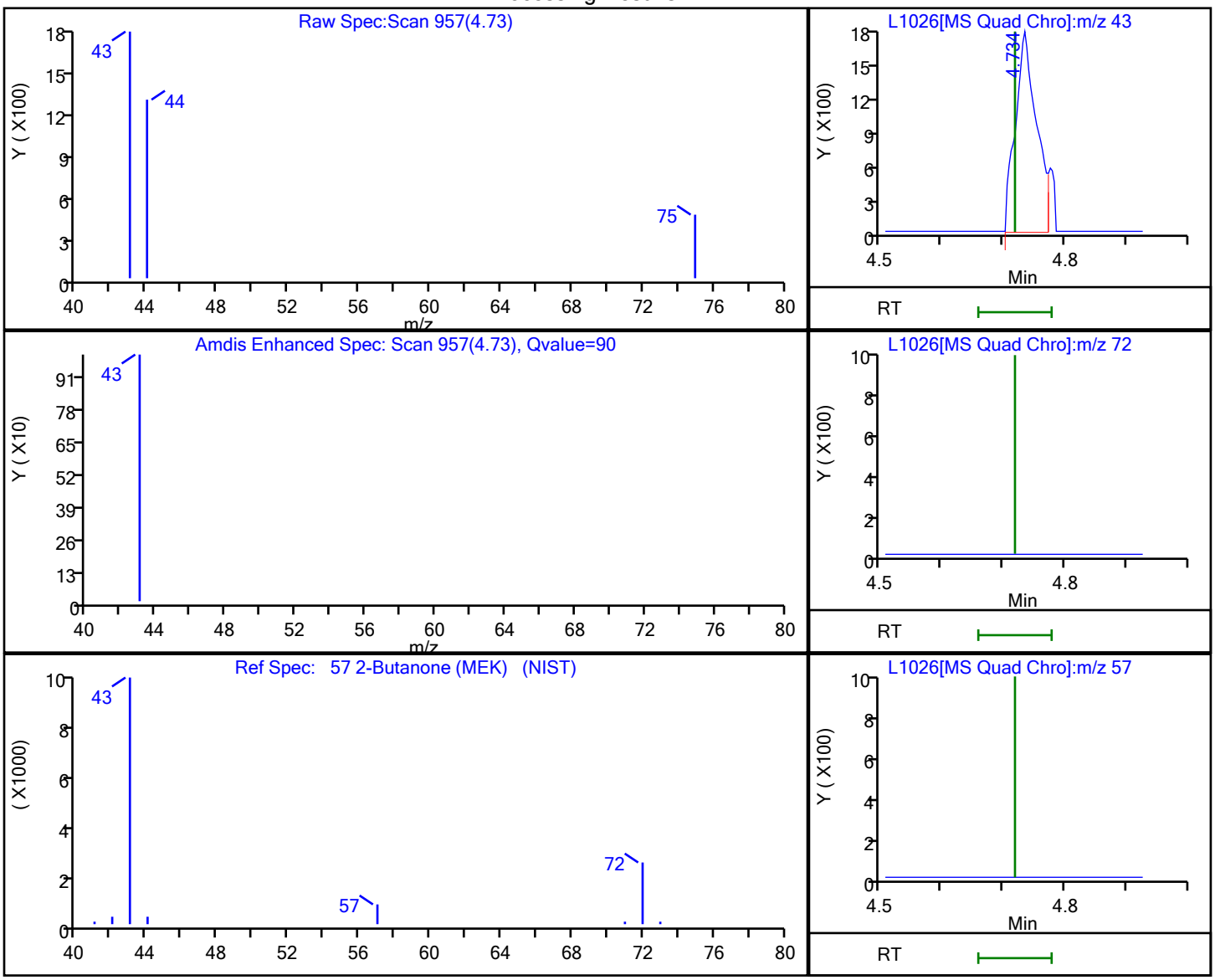
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1026.D
Injection Date: 27-Sep-2023 19:37:51 Instrument ID: HP5977L
Lims ID: 480-213117-A-5 Lab Sample ID: 480-213117-5
Client ID: GW-10S-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	4261	0.611159
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 28-Sep-2023 11:17:04 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

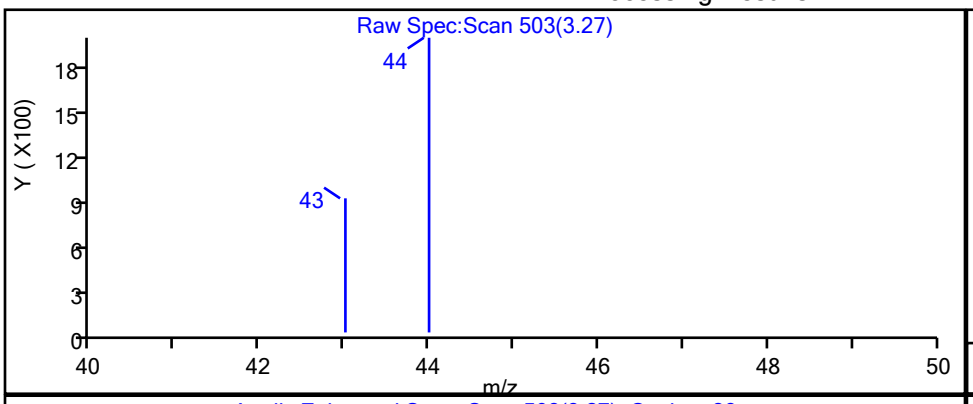
User Disabled Compound Report

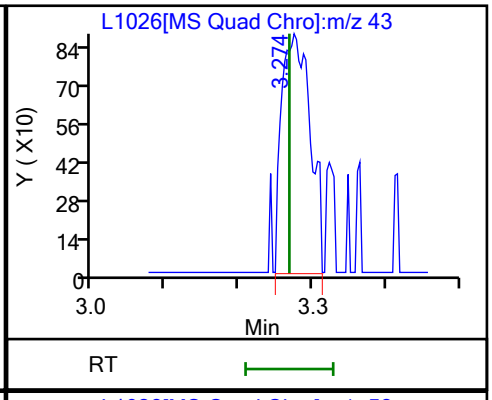
Eurofins Buffalo

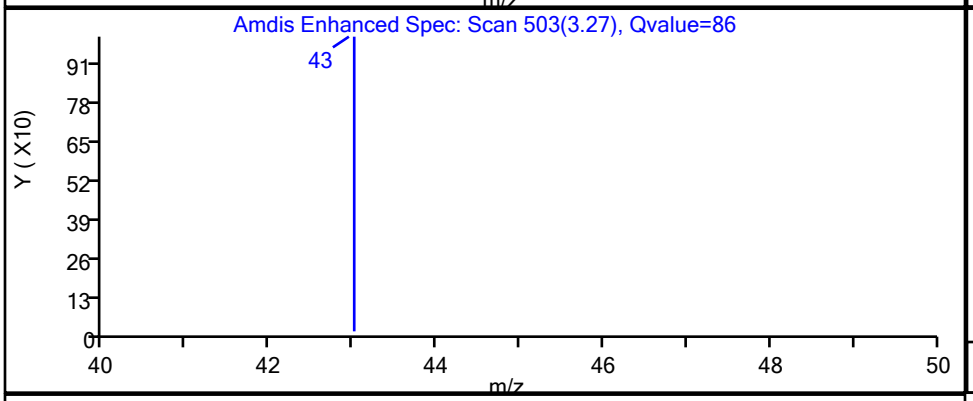
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1026.D				
Injection Date:	27-Sep-2023 19:37:51	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-5	Lab Sample ID:	480-213117-5		
Client ID:	GW-10S-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

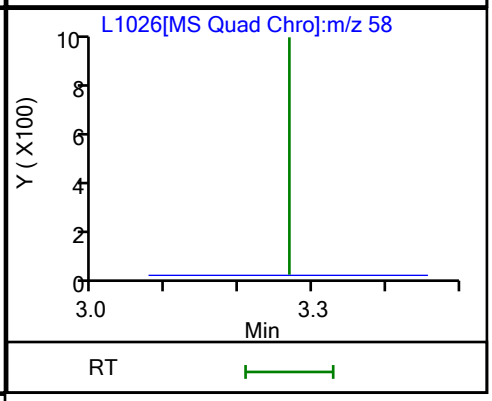
31 Acetone, CAS: 67-64-1

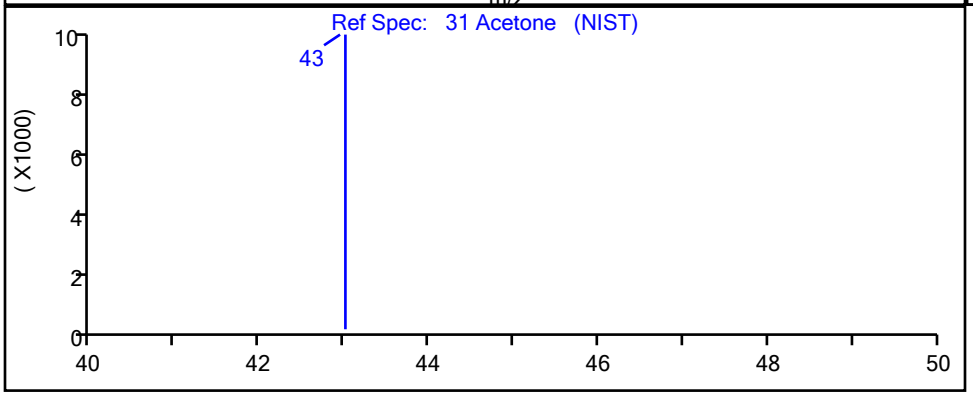
Processing Results











RT	Mass	Response	Amount
3.27	43.00	2409	0.679628
3.27	58.00	0	

Reviewer: R3QB, 28-Sep-2023 11:17:00 -04:00:00 (UTC)

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-13S-09262023 | Lab Sample ID: 480-213117-6

Matrix: Water | Lab File ID: L1027.D

Analysis Method: 8260C | Date Collected: 09/26/2023 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 20:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	J	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.3		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-13S-09262023 | Lab Sample ID: 480-213117-6

Matrix: Water | Lab File ID: L1027.D

Analysis Method: 8260C | Date Collected: 09/26/2023 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 20:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1027.D
Lims ID: 480-213117-A-6
Client ID: GW-13S-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 20:02:24 ALS Bottle#: 0 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-6
Misc. Info.: 480-0113994-027
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:17:15 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:17:50

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.669	5.667	0.003	99	143278	25.0	
*	2 Chlorobenzene-d5	117	8.547	8.544	0.003	86	524137	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.952	10.949	0.003	96	282884	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	93	193306	26.2	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	97	234733	25.8	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	93	703773	26.1	
$	7 4-Bromofluorobenzene (Surr)	174	9.785	9.789	0.000	97	191316	25.4	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.052				ND	
	18 Bromomethane	94		2.419				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.724				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.161	3.159	0.002	88	3447	0.4215	
	30 1,1-Dichloroethene	96		3.187				ND	
	31 Acetone	43	3.277	3.268	0.009	90	6168	1.74	
	35 Carbon disulfide	76		3.409				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.644				ND	
	41 Methyl tert-butyl ether	73		3.805				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.213				ND	
	58 cis-1,2-Dichloroethene	96		4.708				ND	
	57 2-Butanone (MEK)	43		4.718				ND	7
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117	5.232	5.236	-0.004	96	12593	1.33	
	70 Benzene	78		5.435				ND	
	72 1,2-Dichloroethane	62		5.486				ND	
	75 Trichloroethene	95	5.988	5.985	0.003	96	8997	1.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 28-Sep-2023 11:17:51 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1027.D

Injection Date: 27-Sep-2023 20:02:24 Instrument ID: HP5977L

Lims ID: 480-213117-A-6 Lab Sample ID: 480-213117-6

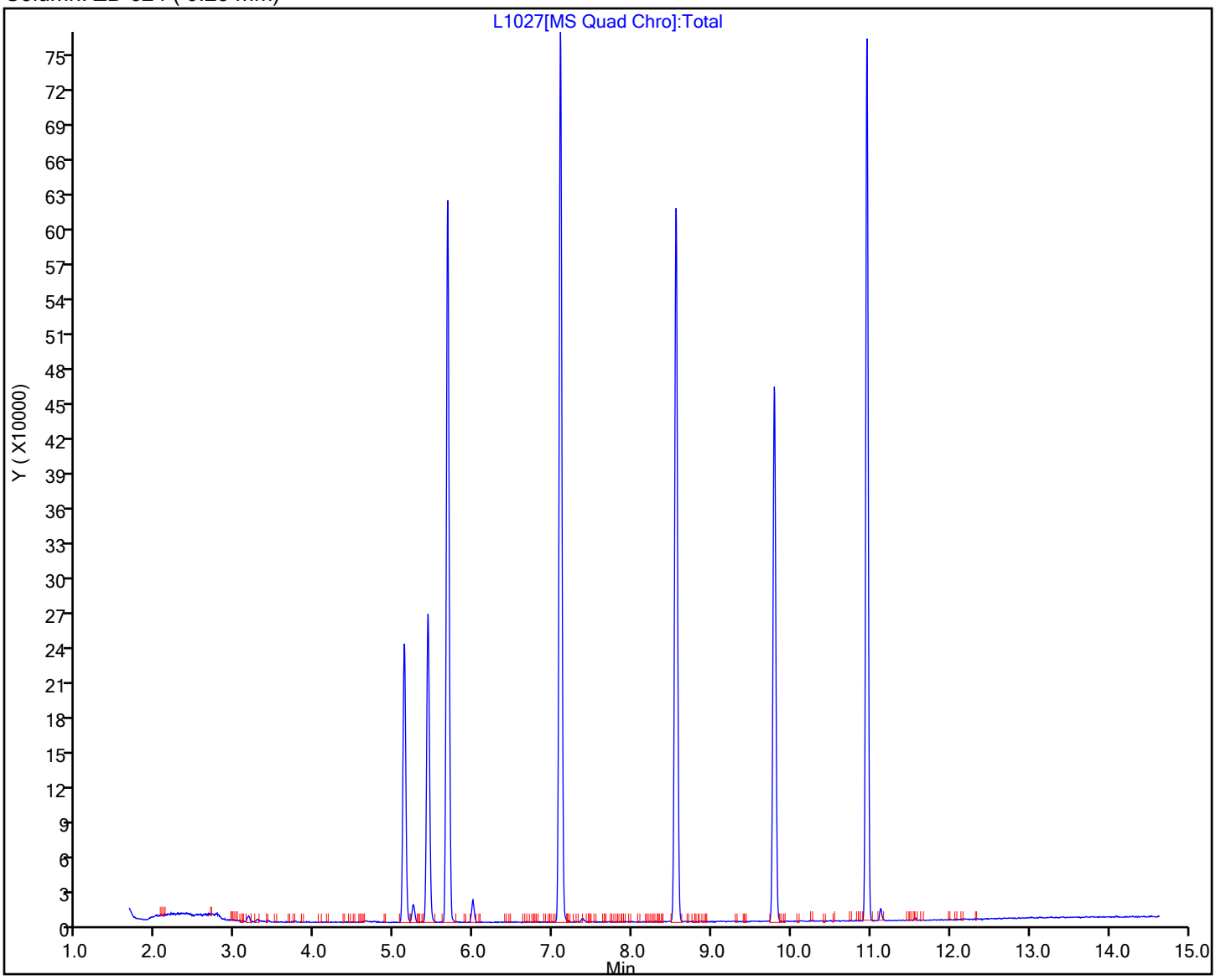
Client ID: GW-13S-09262023

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 27

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1027.D
Lims ID: 480-213117-A-6
Client ID: GW-13S-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 20:02:24 ALS Bottle#: 0 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-6
Misc. Info.: 480-0113994-027
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:17:15 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:17:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.2	104.96
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.8	103.14
$ 6 Toluene-d8 (Surr)	25.0	26.1	104.32
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.4	101.41

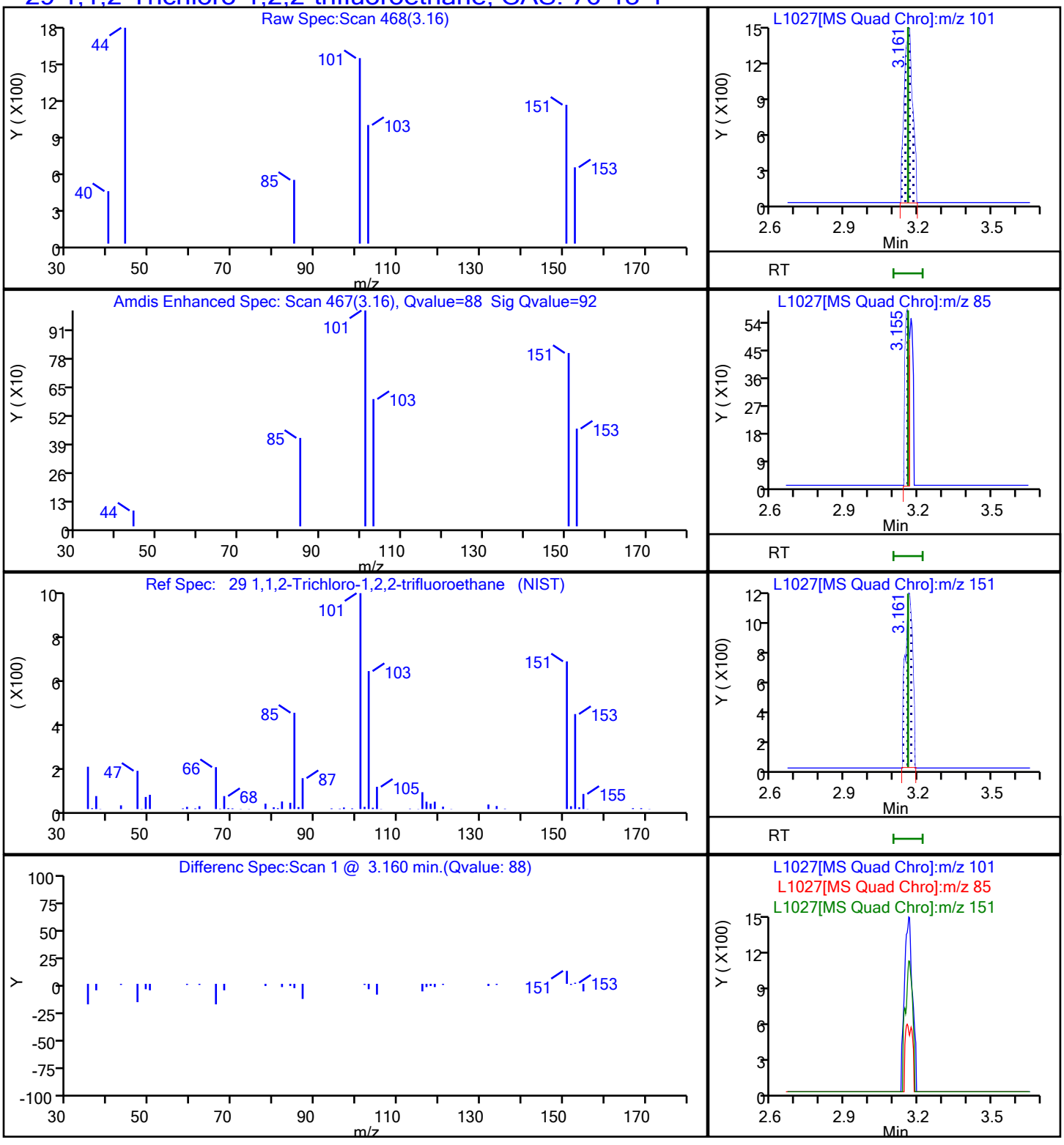
Report Date: 28-Sep-2023 11:17:51 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1027.D

Injection Date:	27-Sep-2023 20:02:24	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-6	Lab Sample ID:	480-213117-6		
Client ID:	GW-13S-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

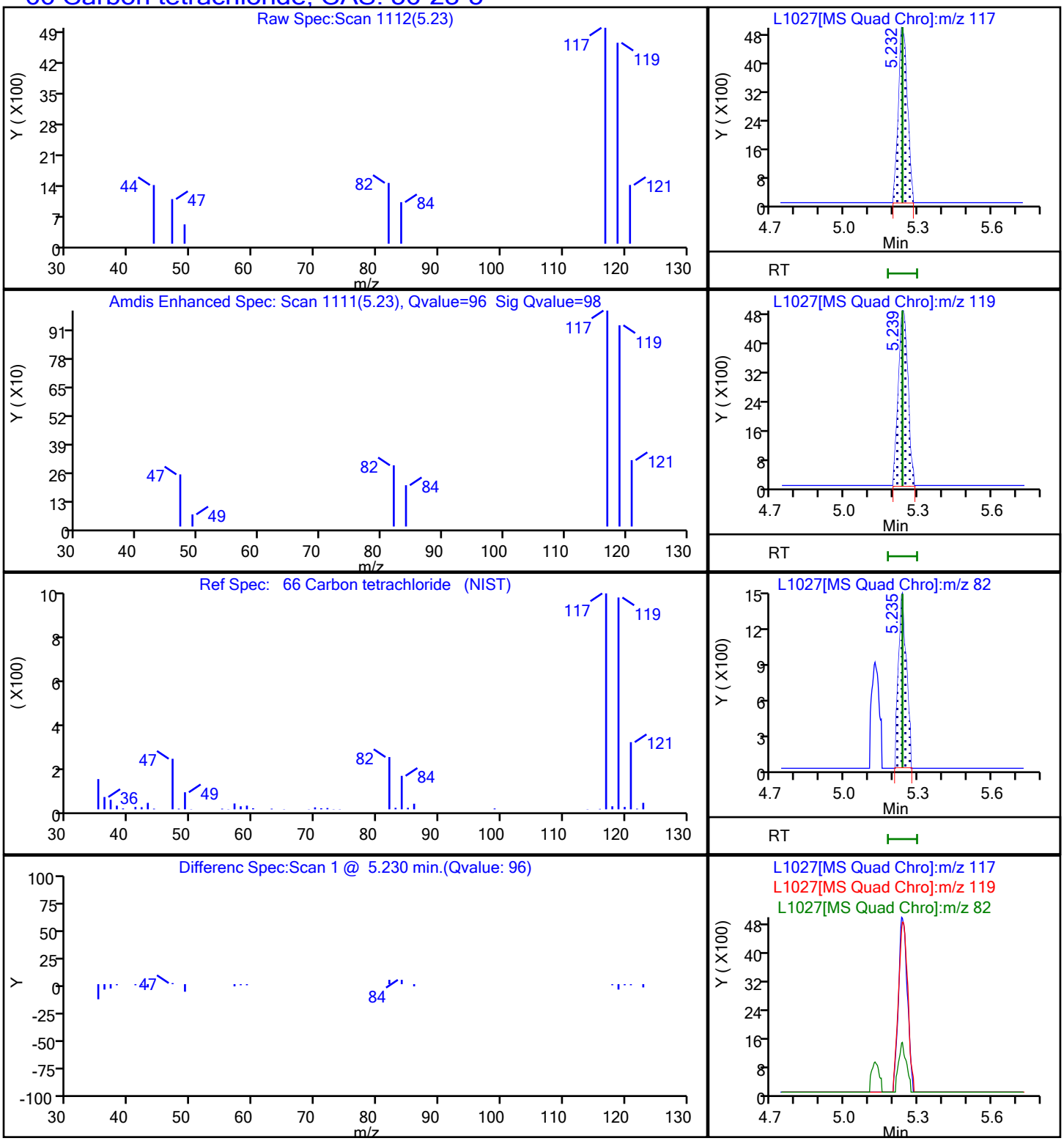
29 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1027.D
Injection Date: 27-Sep-2023 20:02:24 Instrument ID: HP5977L
Lims ID: 480-213117-A-6 Lab Sample ID: 480-213117-6
Client ID: GW-13S-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

66 Carbon tetrachloride, CAS: 56-23-5



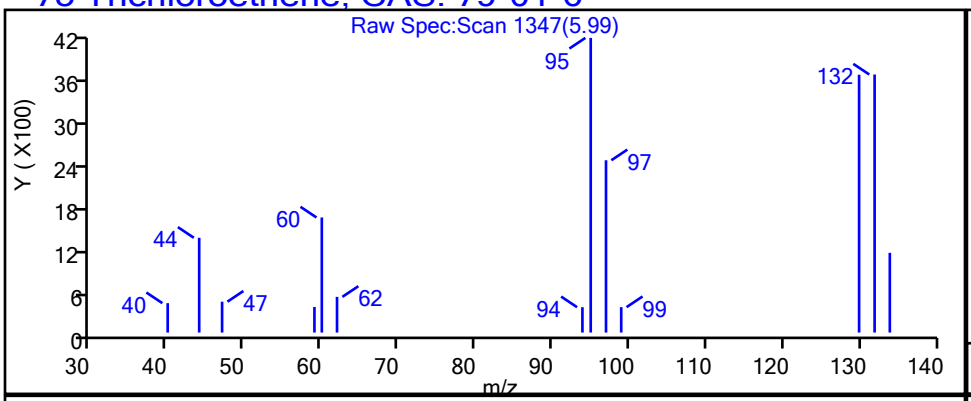
Report Date: 28-Sep-2023 11:17:51 Chrom Revision: 2.3 22-Sep-2023 11:33:50

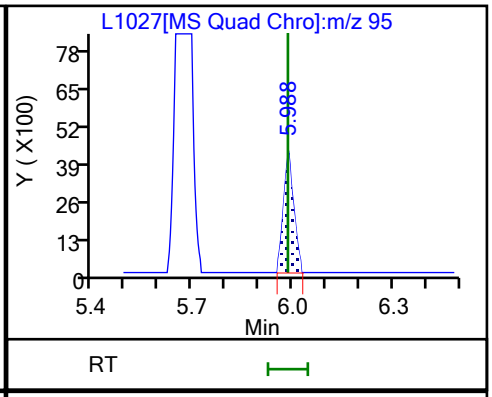
Eurofins Buffalo

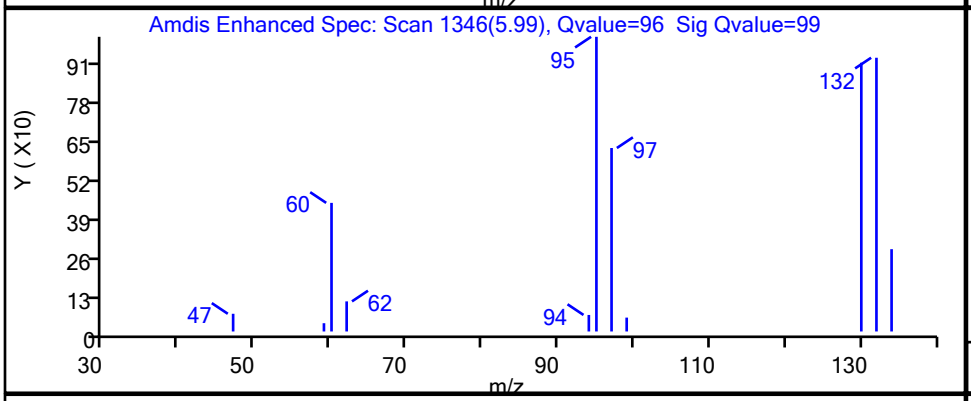
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1027.D

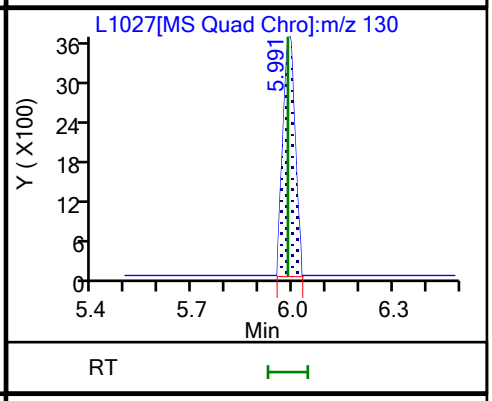
Injection Date:	27-Sep-2023 20:02:24	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-6	Lab Sample ID:	480-213117-6		
Client ID:	GW-13S-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

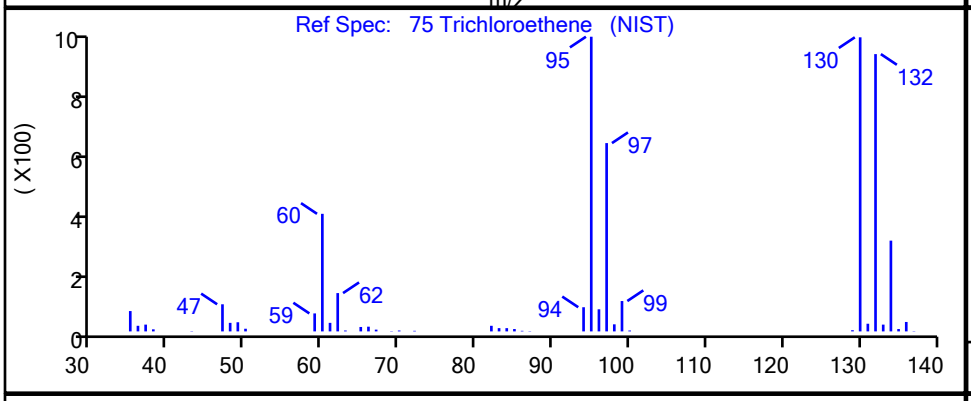
75 Trichloroethene, CAS: 79-01-6

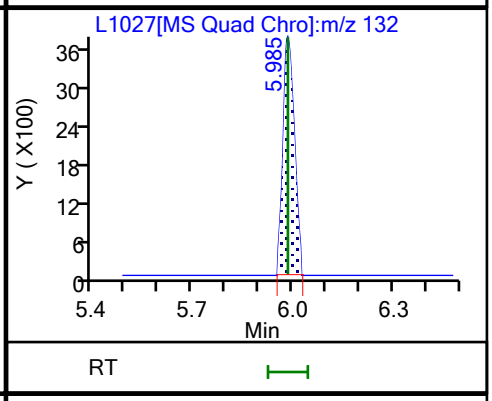


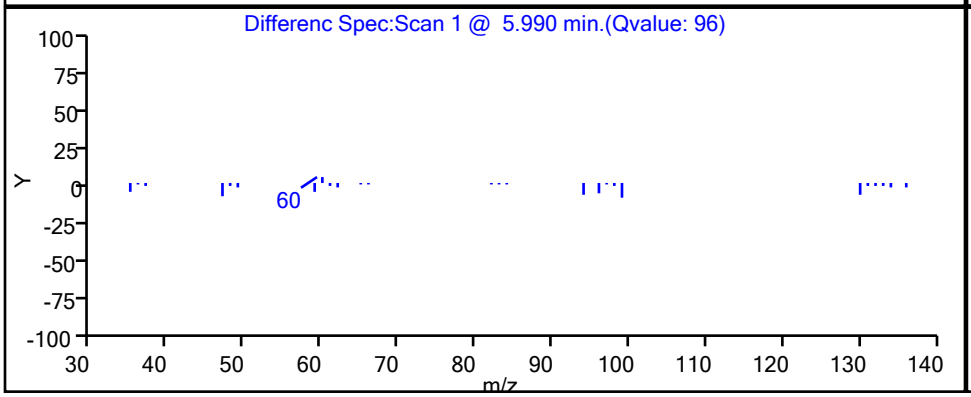


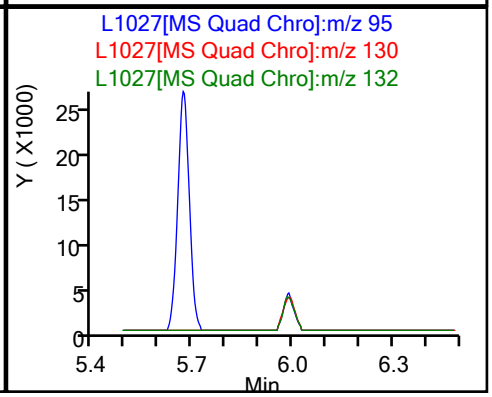












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-27D-09262023 | Lab Sample ID: 480-213117-7

Matrix: Water | Lab File ID: L1028.D

Analysis Method: 8260C | Date Collected: 09/26/2023 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 20:27

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.77	J	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	8.4		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	2.2		1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-27D-09262023 | Lab Sample ID: 480-213117-7

Matrix: Water | Lab File ID: L1028.D

Analysis Method: 8260C | Date Collected: 09/26/2023 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 20:27

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	3.3		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1028.D
Lims ID: 480-213117-A-7
Client ID: GW-M-27D-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 20:27:01 ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-7
Misc. Info.: 480-0113994-028
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:17:15 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:18:33

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	143662	25.0	
*	2 Chlorobenzene-d5	117	8.547	8.544	0.003	86	527655	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.952	10.949	0.003	96	288936	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	93	190915	25.8	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	97	231720	25.4	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	94	714149	26.3	
$	7 4-Bromofluorobenzene (Surr)	174	9.788	9.789	0.003	98	194830	25.6	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.052				ND	
	18 Bromomethane	94		2.419				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.724				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.162	3.159	0.003	88	6293	0.7674	
	30 1,1-Dichloroethene	96		3.187				ND	
	31 Acetone	43	3.277	3.268	0.009	96	7117	2.00	
	35 Carbon disulfide	76		3.409				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.644				ND	
	41 Methyl tert-butyl ether	73		3.805				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.213				ND	
	58 cis-1,2-Dichloroethene	96		4.708				ND	
	57 2-Butanone (MEK)	43		4.718				ND	
	62 Chloroform	83	4.982	4.975	0.007	95	35044	2.22	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117	5.239	5.236	0.003	98	80417	8.44	
	70 Benzene	78		5.435				ND	
	72 1,2-Dichloroethane	62		5.486				ND	
	75 Trichloroethene	95	5.988	5.985	0.003	98	29196	3.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

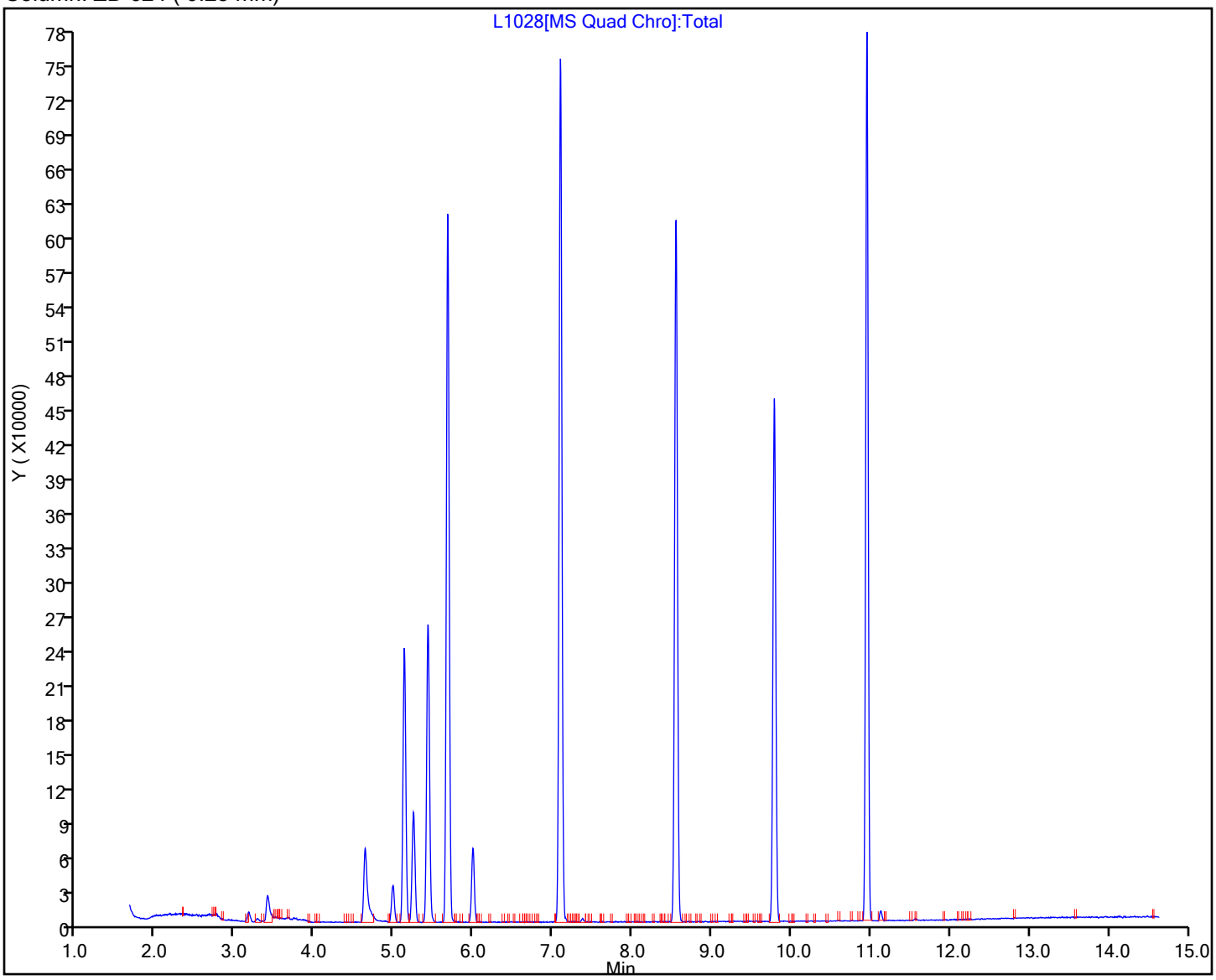
Report Date: 28-Sep-2023 11:18:33 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1028.D

Injection Date:	27-Sep-2023 20:27:01	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-7	Lab Sample ID:	480-213117-7		
Client ID:	GW-M-27D-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1028.D
Lims ID: 480-213117-A-7
Client ID: GW-M-27D-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 20:27:01 ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-7
Misc. Info.: 480-0113994-028
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:17:15 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

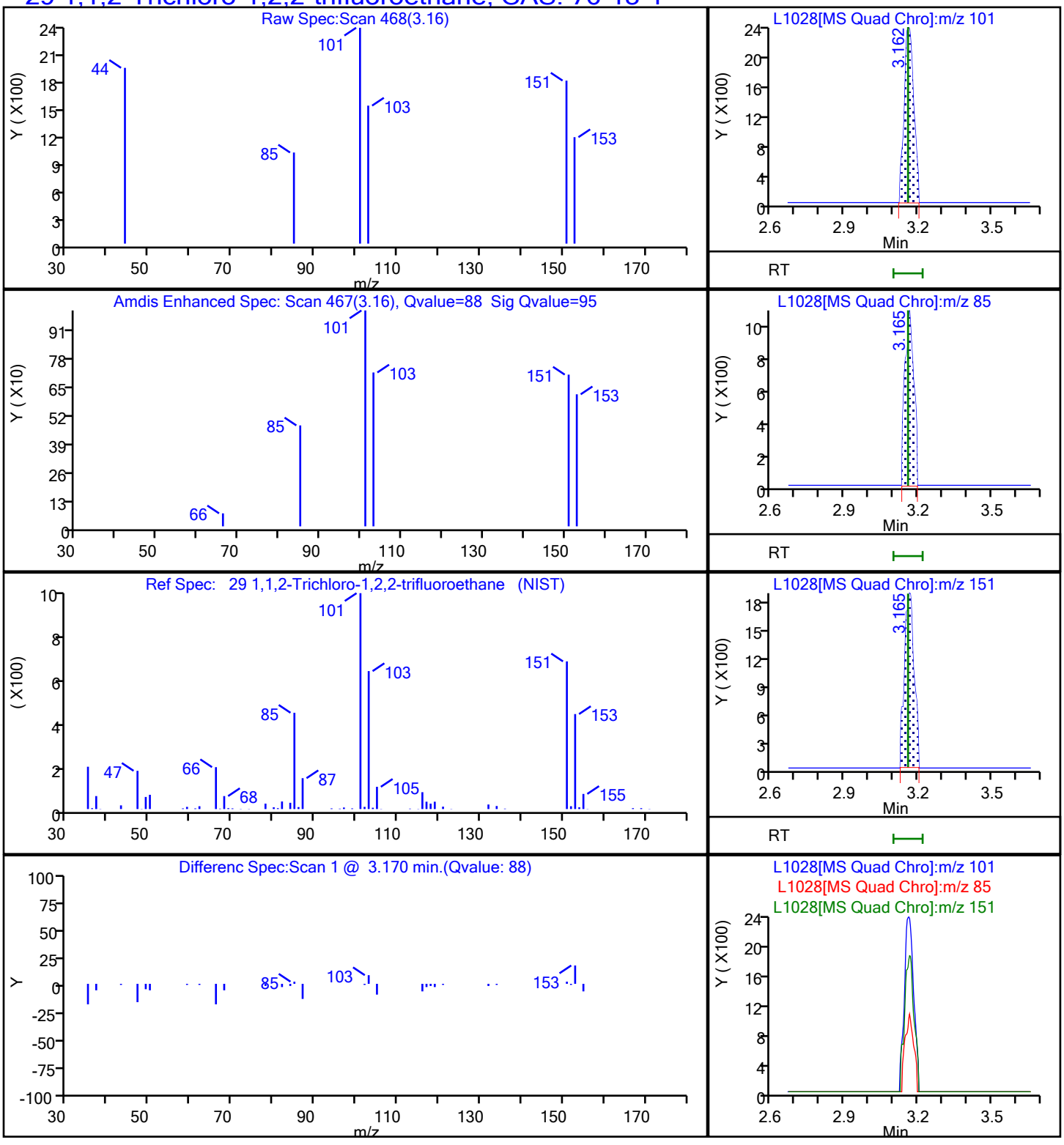
First Level Reviewer: R3QB Date: 28-Sep-2023 11:18:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.8	103.38
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.4	101.55
$ 6 Toluene-d8 (Surr)	25.0	26.3	105.15
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.6	102.59

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1028.D
Injection Date: 27-Sep-2023 20:27:01 Instrument ID: HP5977L
Lims ID: 480-213117-A-7 Lab Sample ID: 480-213117-7
Client ID: GW-M-27D-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

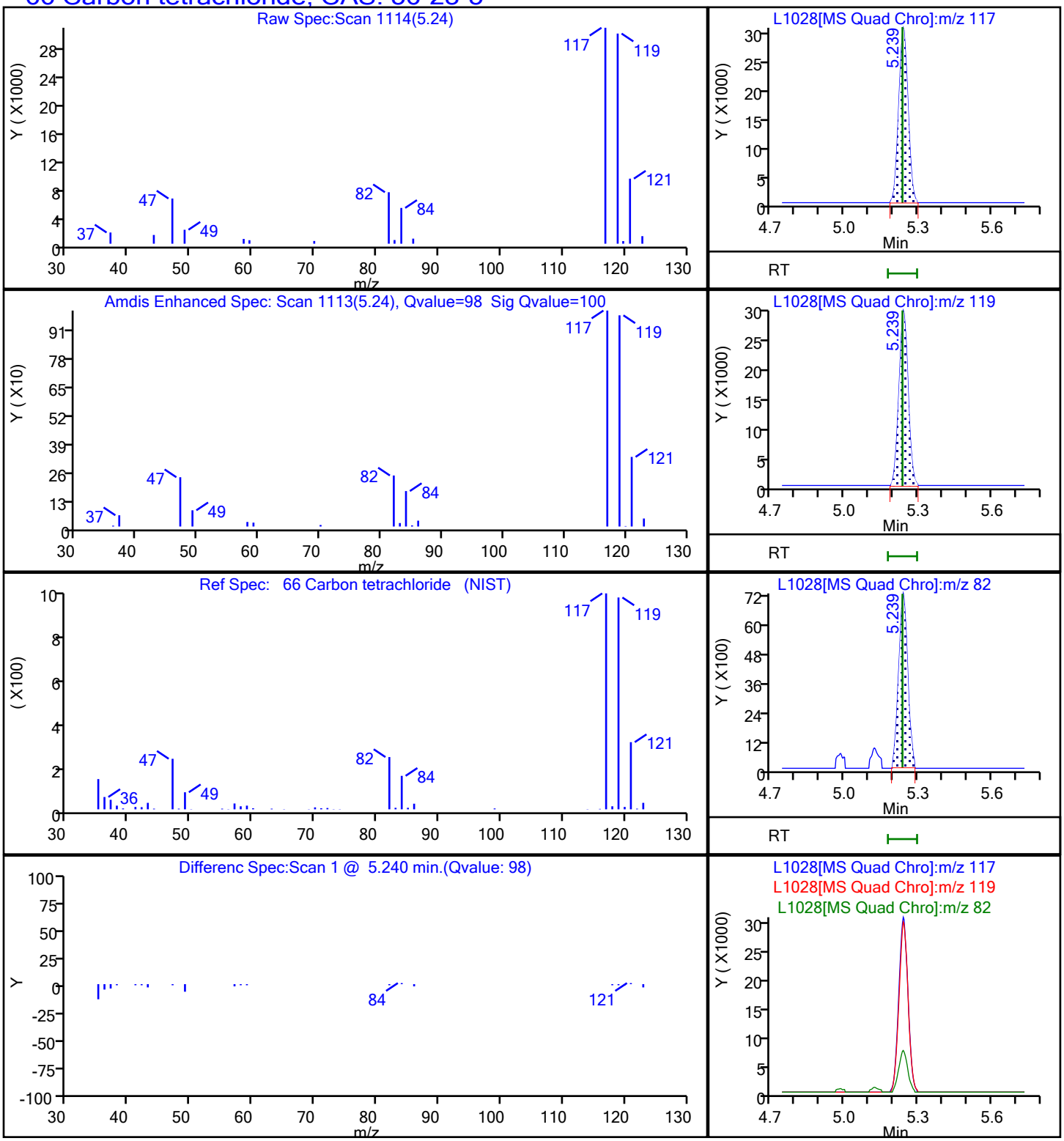
29 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1028.D
Injection Date: 27-Sep-2023 20:27:01 Instrument ID: HP5977L
Lims ID: 480-213117-A-7 Lab Sample ID: 480-213117-7
Client ID: GW-M-27D-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

66 Carbon tetrachloride, CAS: 56-23-5



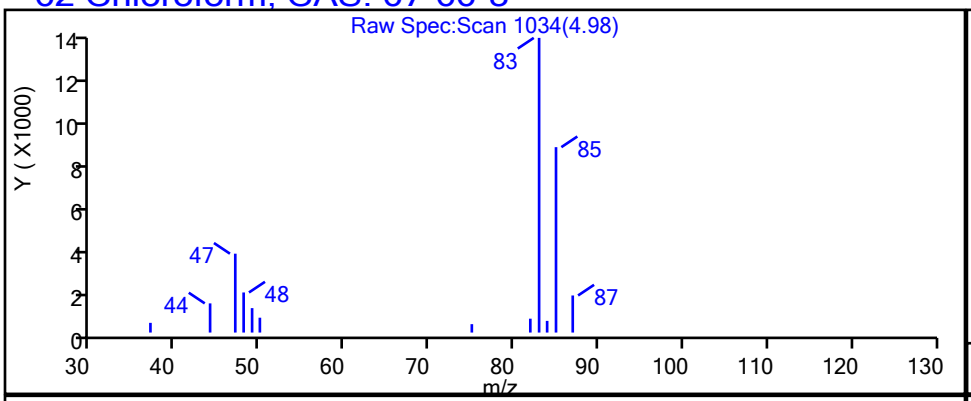
Report Date: 28-Sep-2023 11:18:33 Chrom Revision: 2.3 22-Sep-2023 11:33:50

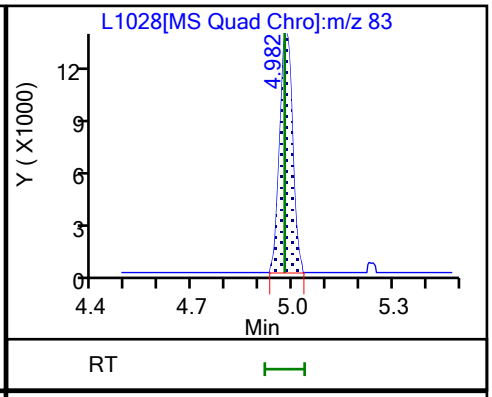
Eurofins Buffalo

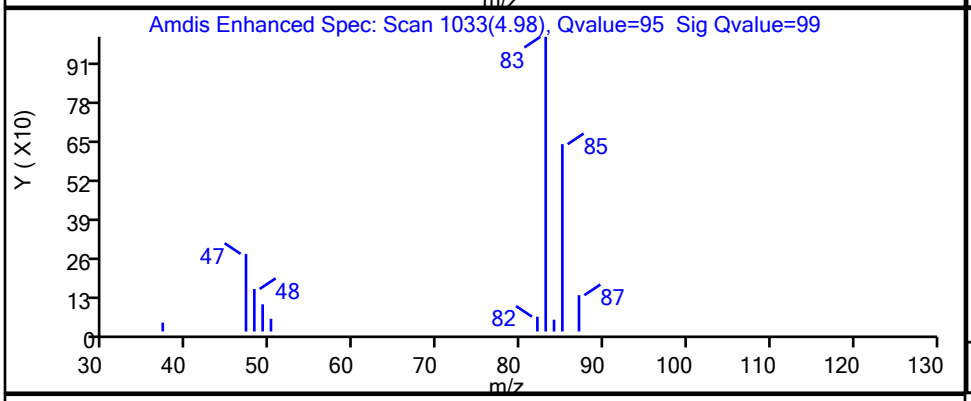
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1028.D

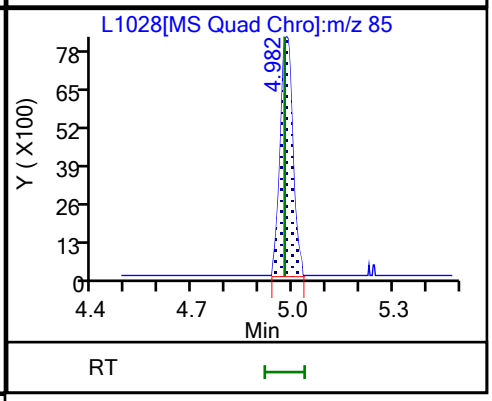
Injection Date:	27-Sep-2023 20:27:01	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-7	Lab Sample ID:	480-213117-7		
Client ID:	GW-M-27D-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

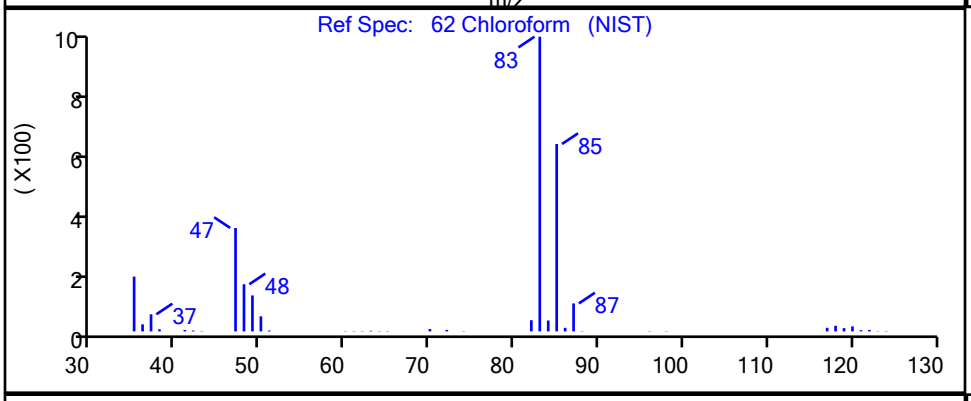
62 Chloroform, CAS: 67-66-3

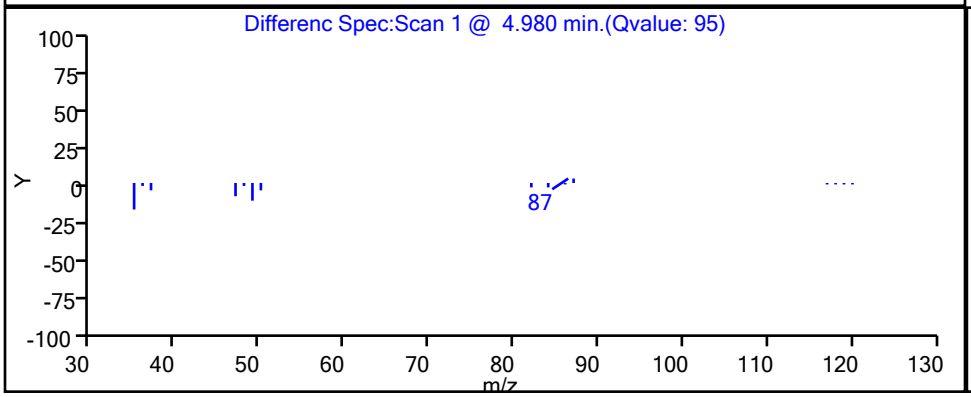


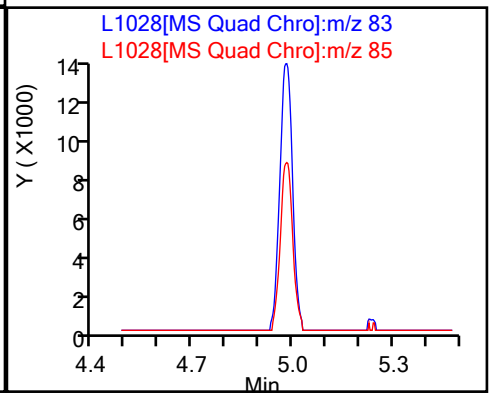








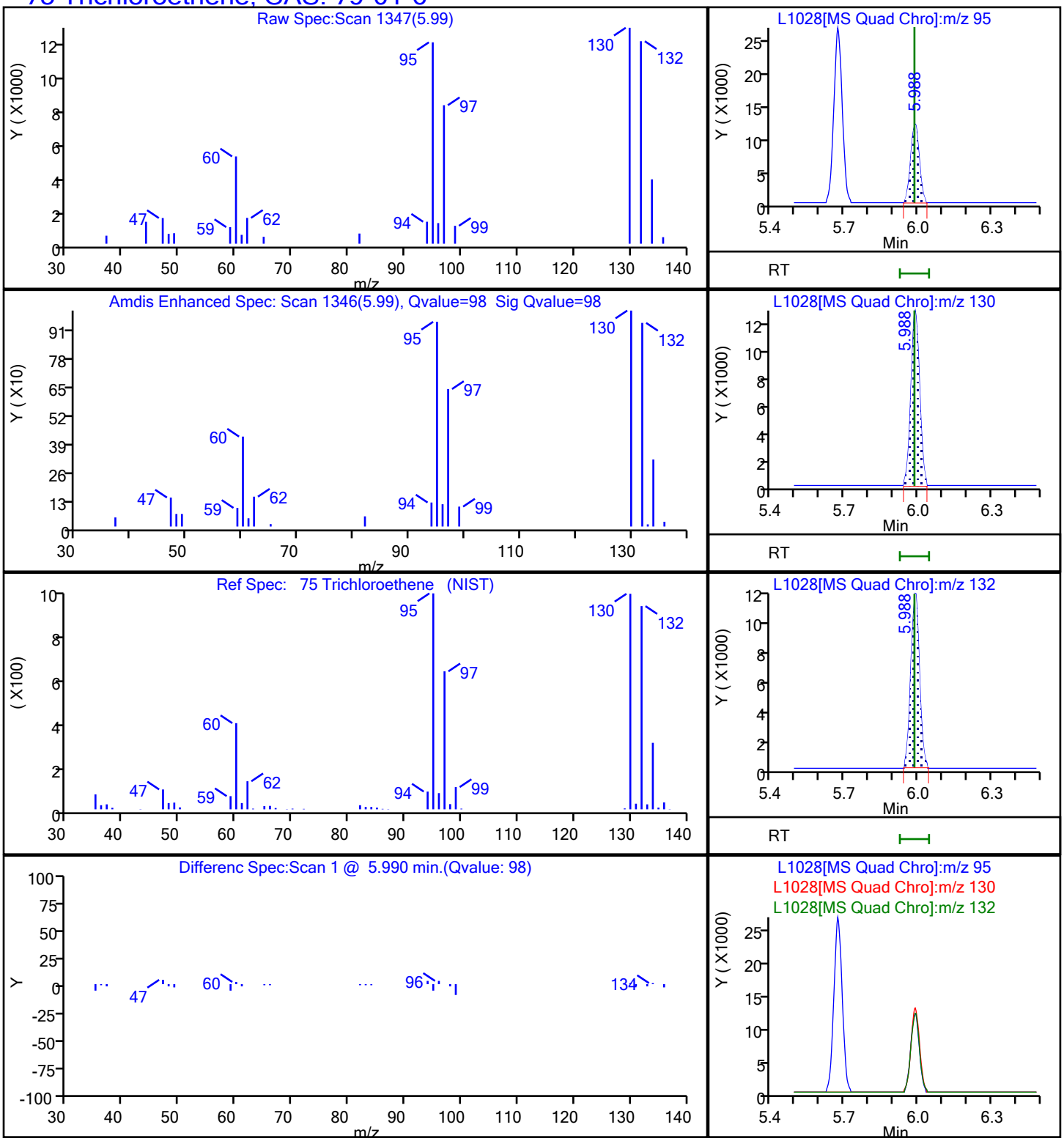




Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1028.D
Injection Date: 27-Sep-2023 20:27:01 Instrument ID: HP5977L
Lims ID: 480-213117-A-7 Lab Sample ID: 480-213117-7
Client ID: GW-M-27D-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

75 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-2-09262023 | Lab Sample ID: 480-213117-8

Matrix: Water | Lab File ID: L1029.D

Analysis Method: 8260C | Date Collected: 09/26/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 20:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.9	J	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	7.0	J	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	0.52	J	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-2-09262023 | Lab Sample ID: 480-213117-8

Matrix: Water | Lab File ID: L1029.D

Analysis Method: 8260C | Date Collected: 09/26/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 20:51

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1029.D
Lims ID: 480-213117-A-8
Client ID: EB-2-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 20:51:09 ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-8
Misc. Info.: 480-0113994-029
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:21:49 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:21:49

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	145754	25.0	
*	2 Chlorobenzene-d5	117	8.548	8.544	0.004	87	548490	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.949	0.004	96	301013	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	93	189212	25.2	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	97	233734	25.2	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	93	731706	25.9	
$	7 4-Bromofluorobenzene (Surr)	174	9.789	9.789	0.004	97	206872	26.2	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.052				ND	
	18 Bromomethane	94		2.419				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.724				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.187				ND	
	31 Acetone	43	3.271	3.268	0.003	99	25204	7.00	
	35 Carbon disulfide	76		3.409				ND	
	38 Methyl acetate	43		3.525				ND	7
	39 Methylene Chloride	84		3.644				ND	
	41 Methyl tert-butyl ether	73		3.805				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.213				ND	
	58 cis-1,2-Dichloroethene	96		4.708				ND	
	57 2-Butanone (MEK)	43	4.724	4.718	0.006	100	13677	1.93	
	62 Chloroform	83	4.975	4.975	0.000	91	8275	0.5167	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117		5.236				ND	
	70 Benzene	78		5.435				ND	
	72 1,2-Dichloroethane	62		5.486				ND	
	75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	U
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

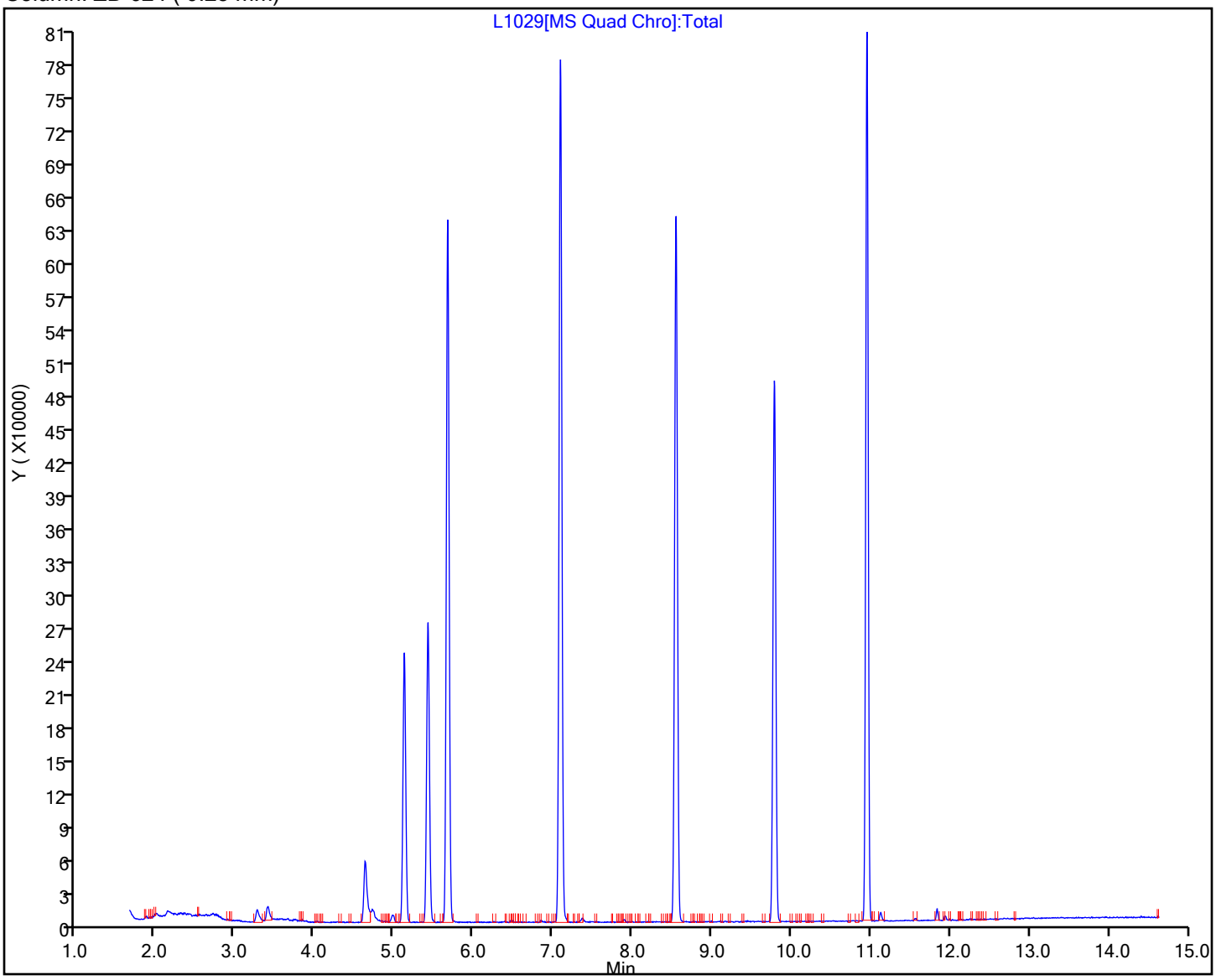
Report Date: 28-Sep-2023 11:21:49 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1029.D

Injection Date:	27-Sep-2023 20:51:09	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-8	Lab Sample ID:	480-213117-8		
Client ID:	EB-2-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1029.D
Lims ID: 480-213117-A-8
Client ID: EB-2-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 20:51:09 ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-8
Misc. Info.: 480-0113994-029
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:21:49 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

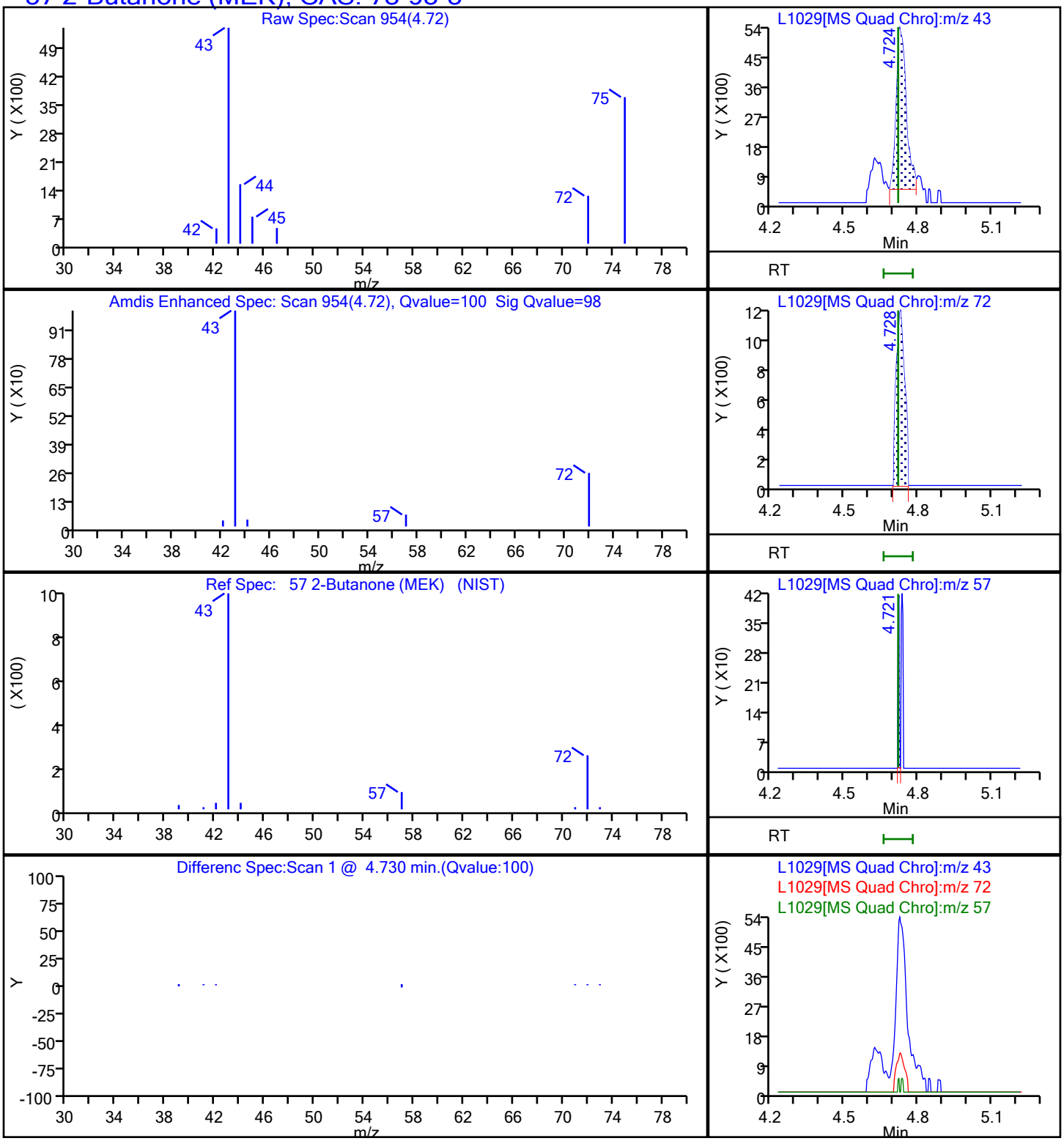
First Level Reviewer: R3QB Date: 28-Sep-2023 11:21:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.2	100.99
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.2	100.96
$ 6 Toluene-d8 (Surr)	25.0	25.9	103.64
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.2	104.79

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1029.D
Injection Date: 27-Sep-2023 20:51:09 Instrument ID: HP5977L
Lims ID: 480-213117-A-8 Lab Sample ID: 480-213117-8
Client ID: EB-2-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

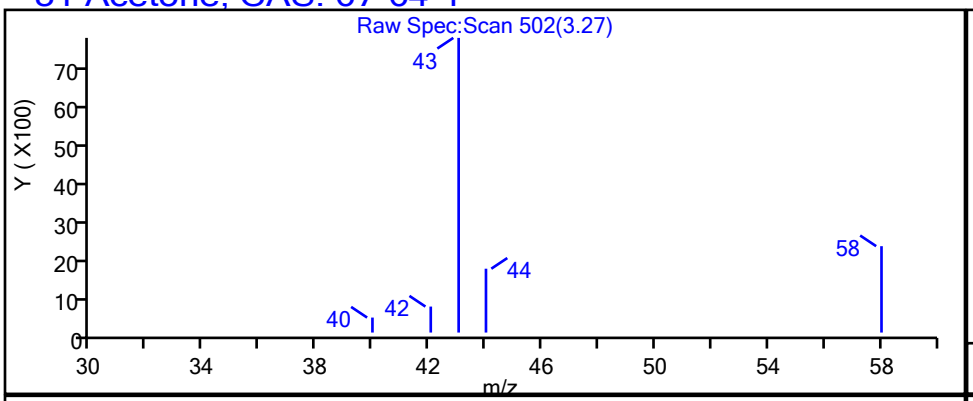
57 2-Butanone (MEK), CAS: 78-93-3

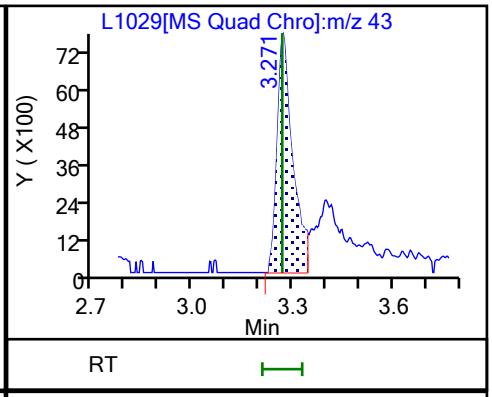


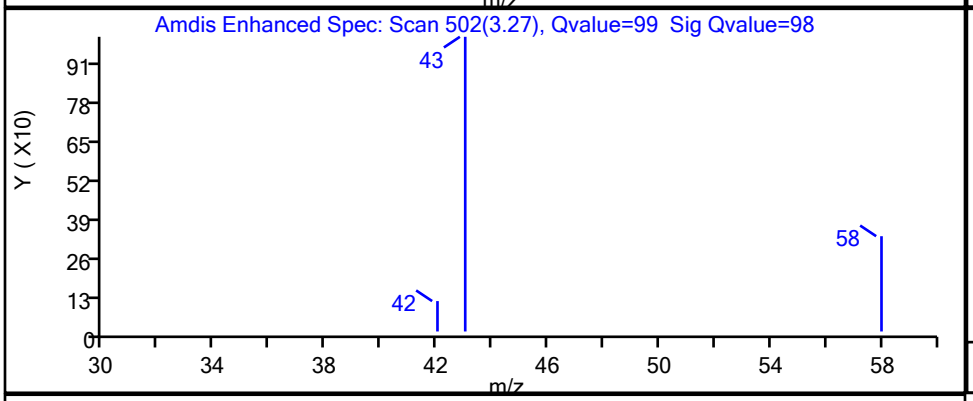
Eurofins Buffalo

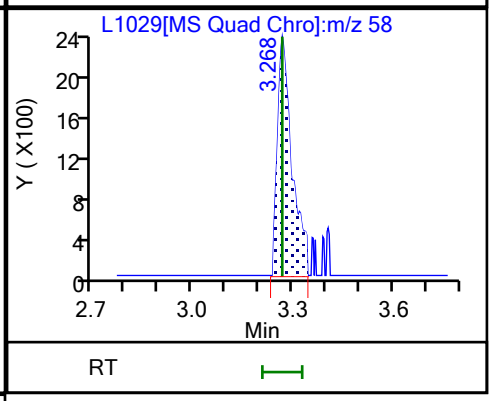
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1029.D
Injection Date: 27-Sep-2023 20:51:09 Instrument ID: HP5977L
Lims ID: 480-213117-A-8 Lab Sample ID: 480-213117-8
Client ID: EB-2-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

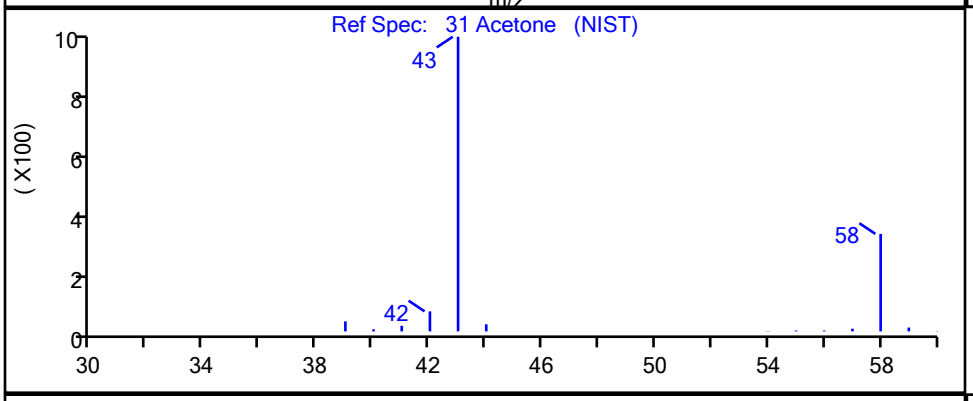
31 Acetone, CAS: 67-64-1

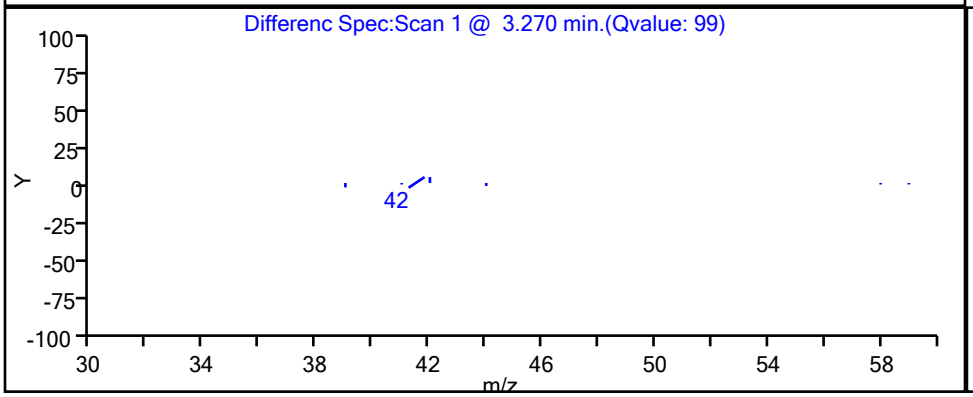


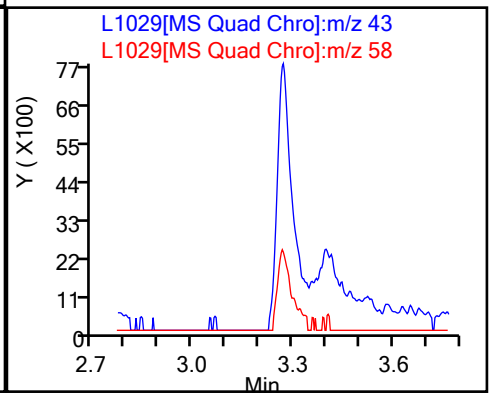












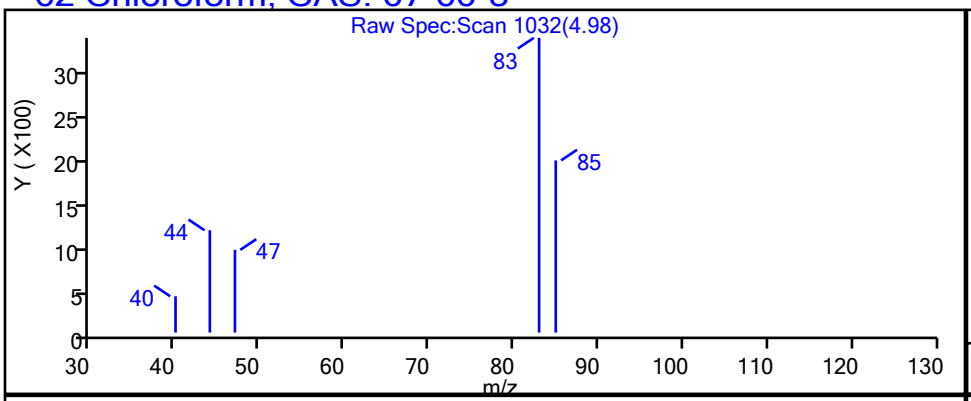
Report Date: 28-Sep-2023 11:21:49 Chrom Revision: 2.3 22-Sep-2023 11:33:50

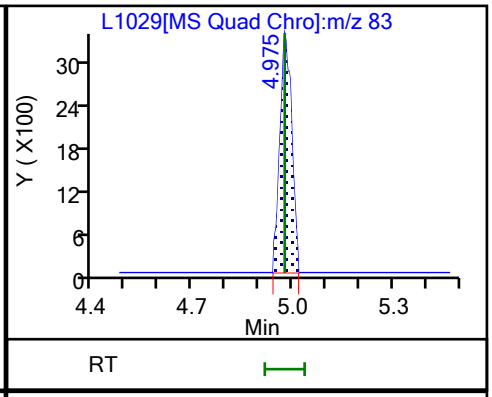
Eurofins Buffalo

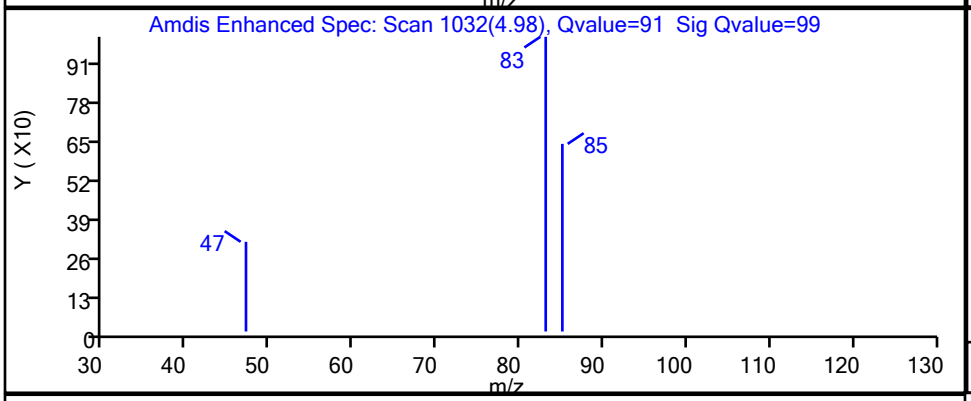
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1029.D

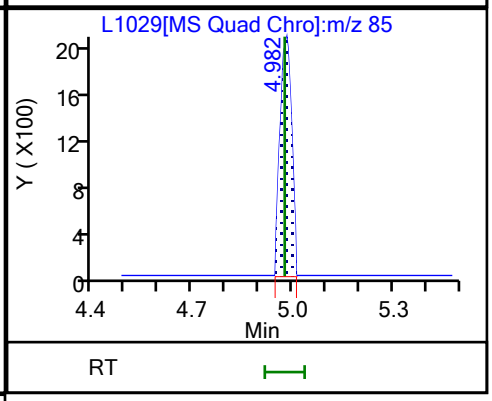
Injection Date:	27-Sep-2023 20:51:09	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-8	Lab Sample ID:	480-213117-8		
Client ID:	EB-2-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

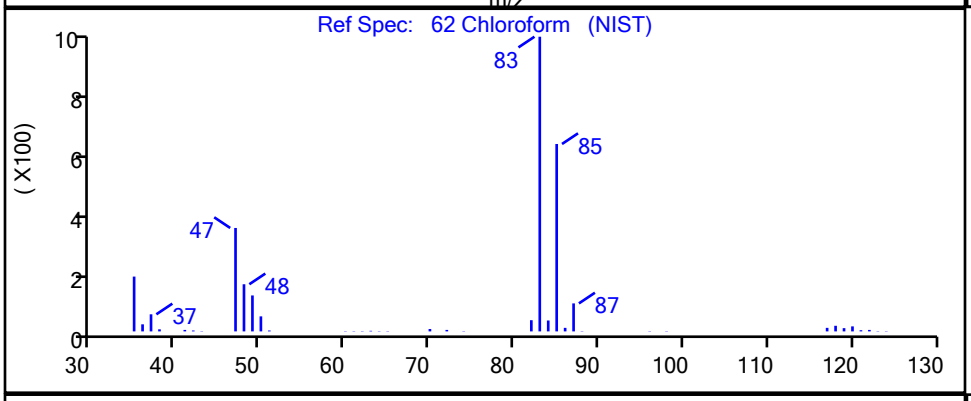
62 Chloroform, CAS: 67-66-3

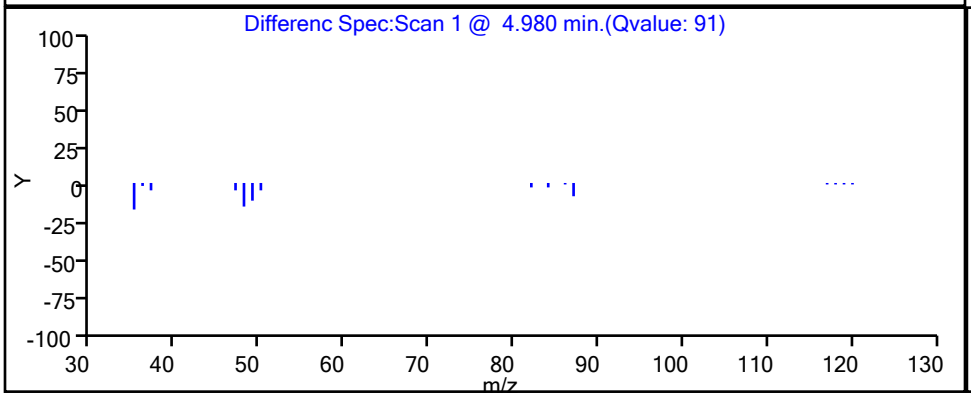


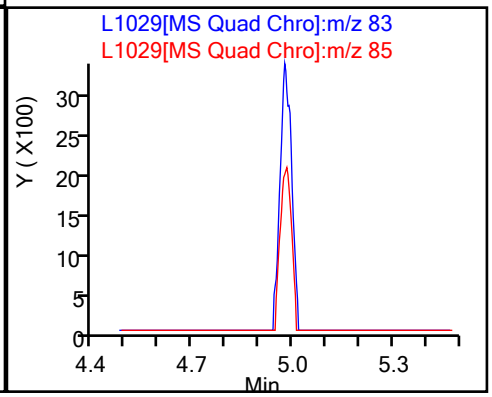












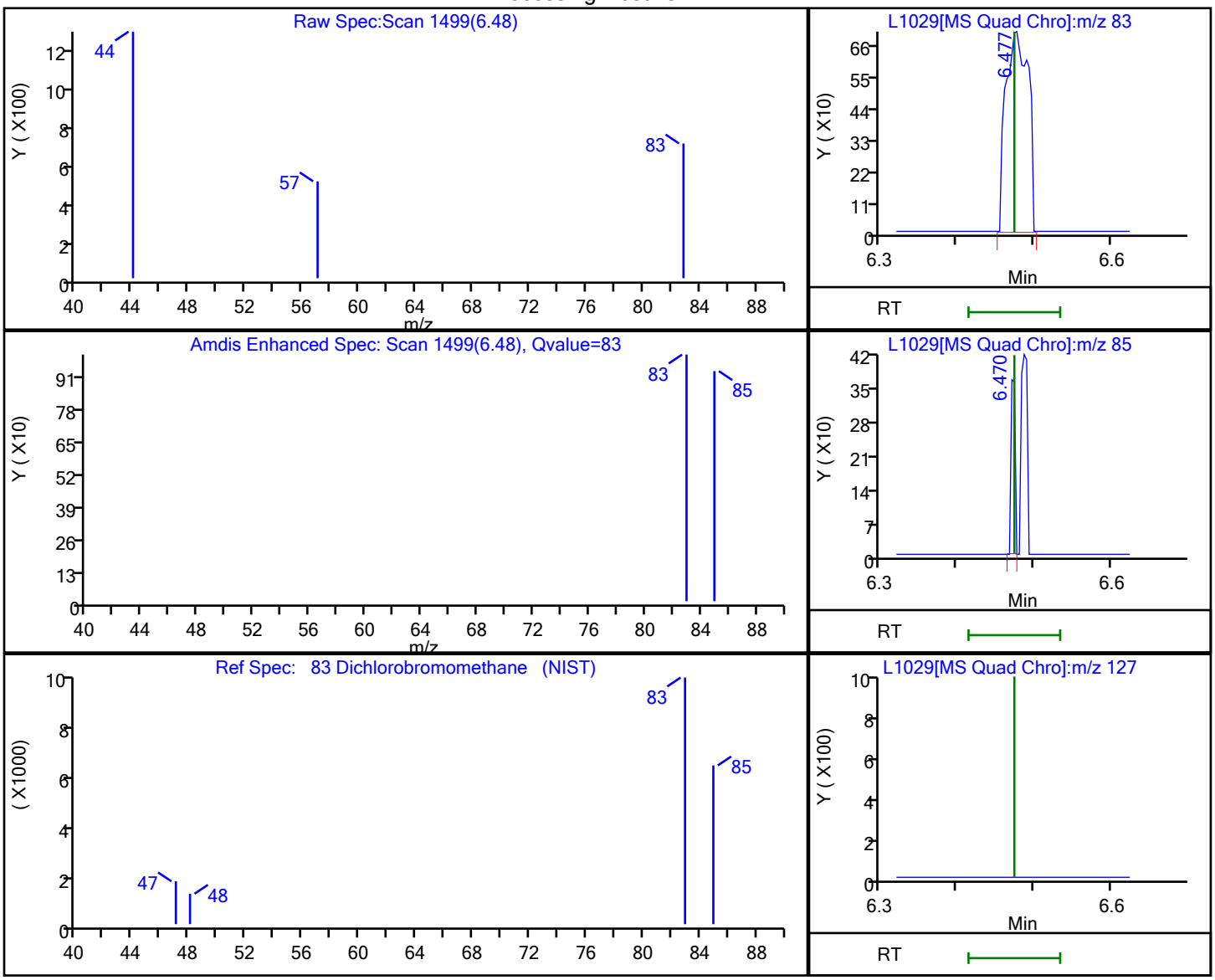
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1029.D				
Injection Date:	27-Sep-2023 20:51:09	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-8	Lab Sample ID:	480-213117-8		
Client ID:	EB-2-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

83 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
6.48	83.00	1432	0.141454
6.47	85.00	138	
6.47	127.00	0	

Reviewer: R3QB, 28-Sep-2023 11:21:40 -04:00:00 (UTC)

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: TB-2-09262023 | Lab Sample ID: 480-213117-9

Matrix: Water | Lab File ID: L1030.D

Analysis Method: 8260C | Date Collected: 09/26/2023 16:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 21:15

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: TB-2-09262023 | Lab Sample ID: 480-213117-9

Matrix: Water | Lab File ID: L1030.D

Analysis Method: 8260C | Date Collected: 09/26/2023 16:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 21:15

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1030.D
Lims ID: 480-213117-A-9
Client ID: TB-2-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 21:15:17 ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-9
Misc. Info.: 480-0113994-030
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:26:02 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:26:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	141889	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.544	0.004	86	556911	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.949	0.004	96	317094	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	93	183062	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	98	228029	25.3	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	93	694547	24.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.789	0.001	97	183918	22.9	
10 Dichlorodifluoromethane	85		1.721				ND	
13 Chloromethane	50		1.940				ND	
14 Vinyl chloride	62		2.052				ND	
18 Bromomethane	94		2.419				ND	
19 Chloroethane	64		2.483				ND	
21 Trichlorofluoromethane	101		2.724				ND	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
30 1,1-Dichloroethene	96		3.187				ND	
31 Acetone	43	3.275	3.268	0.007	96	7267	2.07	
35 Carbon disulfide	76		3.409				ND	
38 Methyl acetate	43		3.525				ND	
39 Methylene Chloride	84		3.644				ND	
41 Methyl tert-butyl ether	73		3.805				ND	
42 trans-1,2-Dichloroethene	96		3.837				ND	
50 1,1-Dichloroethane	63		4.213				ND	
58 cis-1,2-Dichloroethene	96		4.708				ND	
57 2-Butanone (MEK)	43		4.718				ND	U
62 Chloroform	83		4.975				ND	
64 1,1,1-Trichloroethane	97		5.107				ND	
65 Cyclohexane	56		5.126				ND	
66 Carbon tetrachloride	117		5.236				ND	
70 Benzene	78		5.435				ND	
72 1,2-Dichloroethane	62		5.486				ND	
75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.107				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.474				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.403				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.785				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.573				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.216				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.975				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

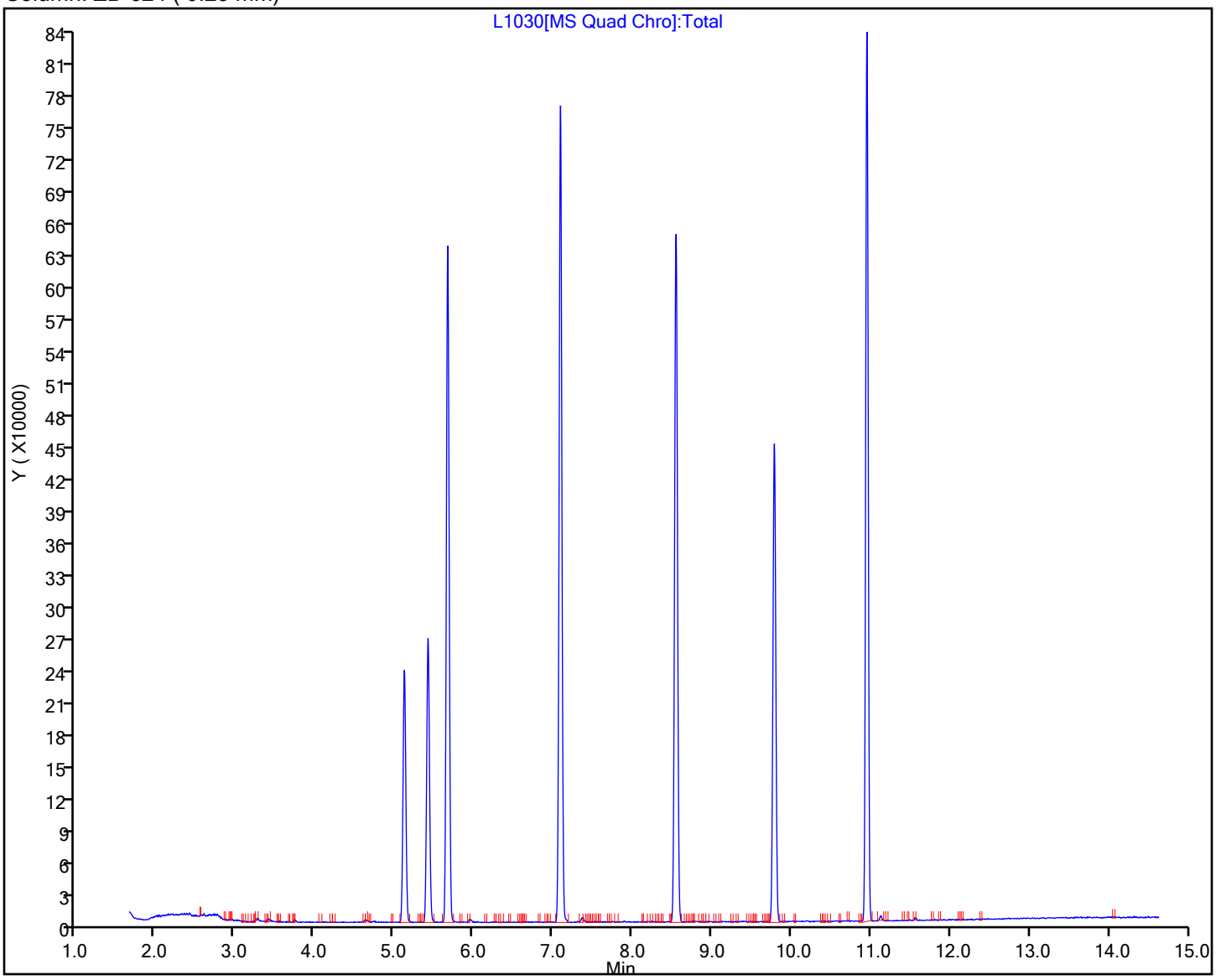
Report Date: 28-Sep-2023 11:26:02 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1030.D

Injection Date:	27-Sep-2023 21:15:17	Instrument ID:	HP5977L		
Lims ID:	480-213117-A-9	Lab Sample ID:	480-213117-9		
Client ID:	TB-2-09262023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1030.D
Lims ID: 480-213117-A-9
Client ID: TB-2-09262023
Sample Type: Client
Inject. Date: 27-Sep-2023 21:15:17 ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-9
Misc. Info.: 480-0113994-030
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:26:02 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:26:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.1	100.37
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.3	101.18
$ 6 Toluene-d8 (Surr)	25.0	24.2	96.89
$ 7 4-Bromofluorobenzene (Surr)	25.0	22.9	91.75

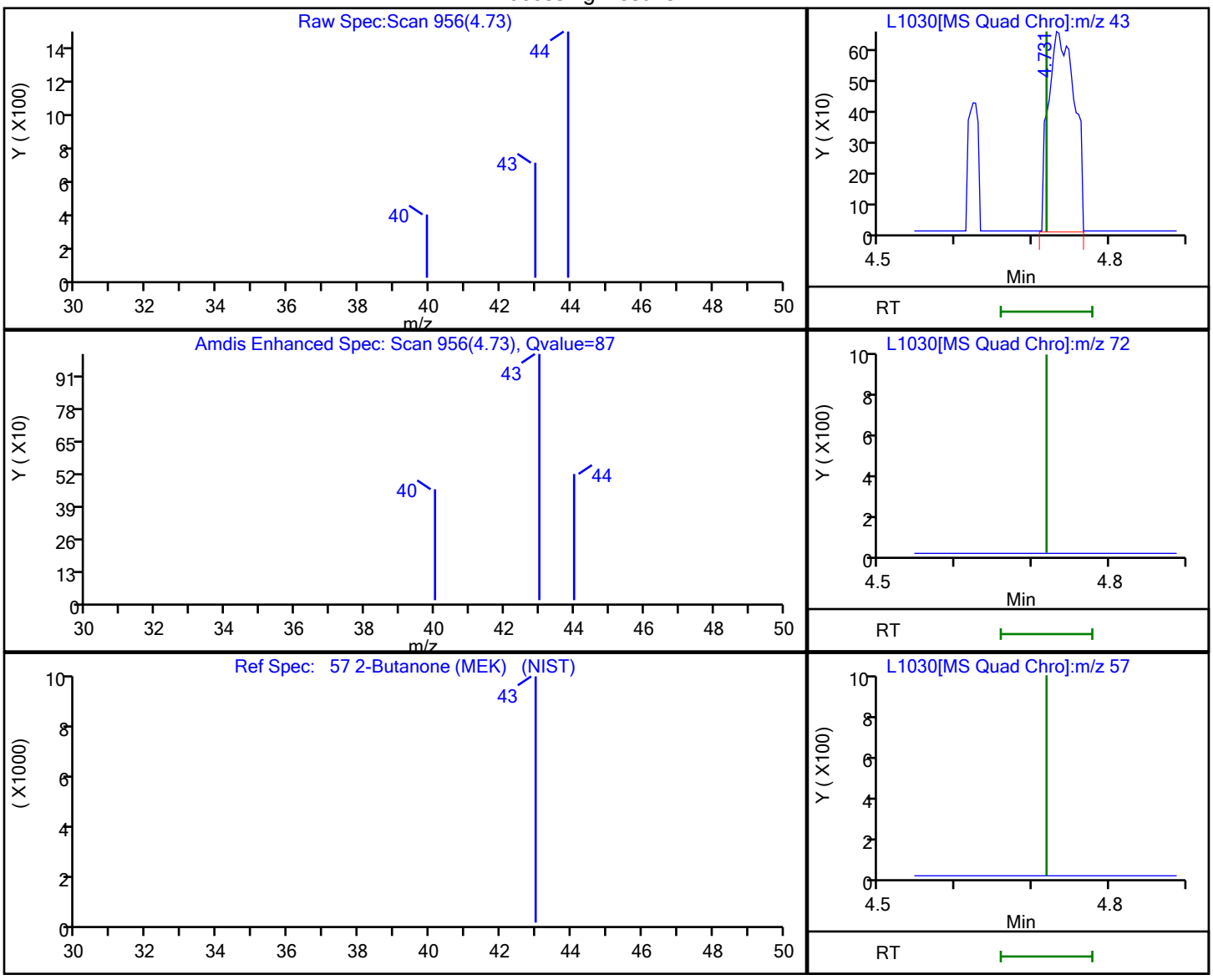
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1030.D
Injection Date: 27-Sep-2023 21:15:17 Instrument ID: HP5977L
Lims ID: 480-213117-A-9 Lab Sample ID: 480-213117-9
Client ID: TB-2-09262023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	1562	0.226461
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 28-Sep-2023 11:25:21 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-D-09272023 | Lab Sample ID: 480-213168-1

Matrix: Water | Lab File ID: L1081.D

Analysis Method: 8260C | Date Collected: 09/27/2023 16:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 04:29

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-D-09272023 | Lab Sample ID: 480-213168-1

Matrix: Water | Lab File ID: L1081.D

Analysis Method: 8260C | Date Collected: 09/27/2023 16:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 04:29

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1081.D
Lims ID: 480-213168-A-1
Client ID: SW-D-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 04:29:23 ALS Bottle#: 0 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-1
Misc. Info.: 480-0114025-035
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:31:27 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:32:02

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.673	5.670	0.003	99	135601	25.0	
*	2 Chlorobenzene-d5	117	8.547	8.544	0.003	86	554058	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.952	10.953	-0.001	96	303352	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.126	5.123	0.003	93	175488	25.2	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	97	222547	25.8	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	94	726025	25.5	
$	7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	97	209872	26.3	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.053				ND	
	18 Bromomethane	94		2.413				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.721				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.191				ND	
	31 Acetone	43	3.281	3.268	0.013	98	4630	1.38	
	35 Carbon disulfide	76		3.416				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.651				ND	
	41 Methyl tert-butyl ether	73		3.808				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.210				ND	
	58 cis-1,2-Dichloroethene	96		4.705				ND	
	57 2-Butanone (MEK)	43		4.718				ND	
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117		5.239				ND	
	70 Benzene	78		5.432				ND	
	72 1,2-Dichloroethane	62		5.487				ND	
	75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

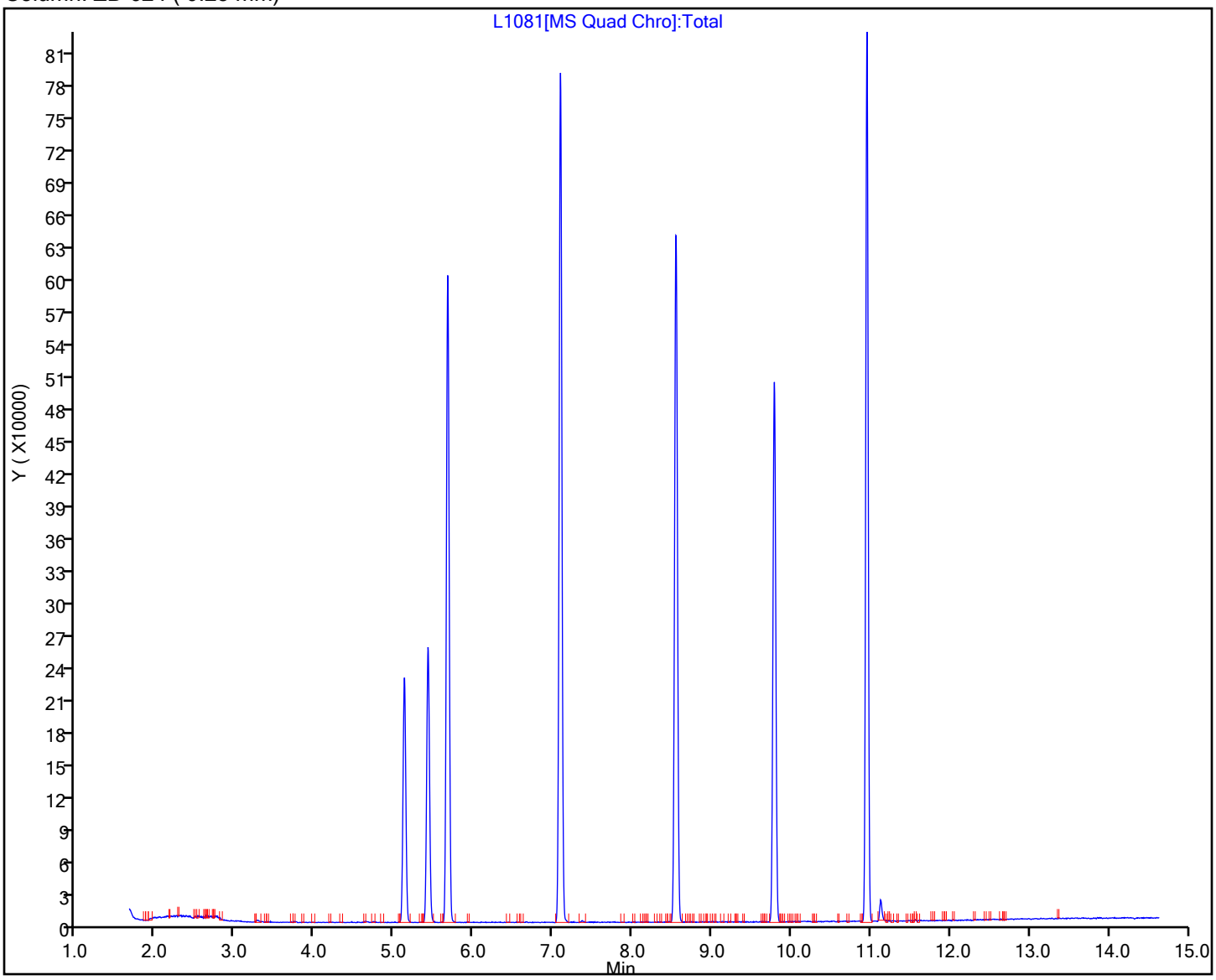
Report Date: 29-Sep-2023 09:32:03 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1081.D

Injection Date:	29-Sep-2023 04:29:23	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-1	Lab Sample ID:	480-213168-1		
Client ID:	SW-D-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	35
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1081.D
Lims ID: 480-213168-A-1
Client ID: SW-D-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 04:29:23 ALS Bottle#: 0 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-1
Misc. Info.: 480-0114025-035
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:31:27 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:32:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.2	100.68
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.8	103.33
$ 6 Toluene-d8 (Surr)	25.0	25.5	101.80
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.3	105.24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-28S-09272023 | Lab Sample ID: 480-213168-2

Matrix: Water | Lab File ID: L1082.D

Analysis Method: 8260C | Date Collected: 09/27/2023 14:05

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 04:53

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.1		1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U *+	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	4.1		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-28S-09272023 | Lab Sample ID: 480-213168-2

Matrix: Water | Lab File ID: L1082.D

Analysis Method: 8260C | Date Collected: 09/27/2023 14:05

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 04:53

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	14		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1082.D
Lims ID: 480-213168-A-2
Client ID: GW-M-28S-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 04:53:57 ALS Bottle#: 0 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-2
Misc. Info.: 480-0114025-036
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:32:30 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:32:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	132221	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.544	0.004	86	524469	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	282456	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	170444	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	209062	24.9	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	675643	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	98	186265	24.7	
10 Dichlorodifluoromethane	85		1.721				ND	
13 Chloromethane	50		1.940				ND	
14 Vinyl chloride	62		2.053				ND	
18 Bromomethane	94		2.413				ND	
19 Chloroethane	64		2.483				ND	
21 Trichlorofluoromethane	101		2.721				ND	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.168	3.159	0.009	92	15728	2.08	
30 1,1-Dichloroethene	96		3.191				ND	
31 Acetone	43		3.268				ND	U
35 Carbon disulfide	76		3.416				ND	
38 Methyl acetate	43		3.525				ND	
39 Methylene Chloride	84		3.651				ND	
41 Methyl tert-butyl ether	73		3.808				ND	
42 trans-1,2-Dichloroethene	96		3.837				ND	
50 1,1-Dichloroethane	63		4.210				ND	
58 cis-1,2-Dichloroethene	96		4.705				ND	
57 2-Butanone (MEK)	43		4.718				ND	U
62 Chloroform	83	4.979	4.975	0.003	82	2139	0.1472	
64 1,1,1-Trichloroethane	97		5.107				ND	
65 Cyclohexane	56		5.126				ND	
66 Carbon tetrachloride	117	5.239	5.239	0.000	97	35585	4.06	
70 Benzene	78		5.432				ND	
72 1,2-Dichloroethane	62		5.487				ND	
75 Trichloroethene	95	5.988	5.985	0.003	98	113147	13.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

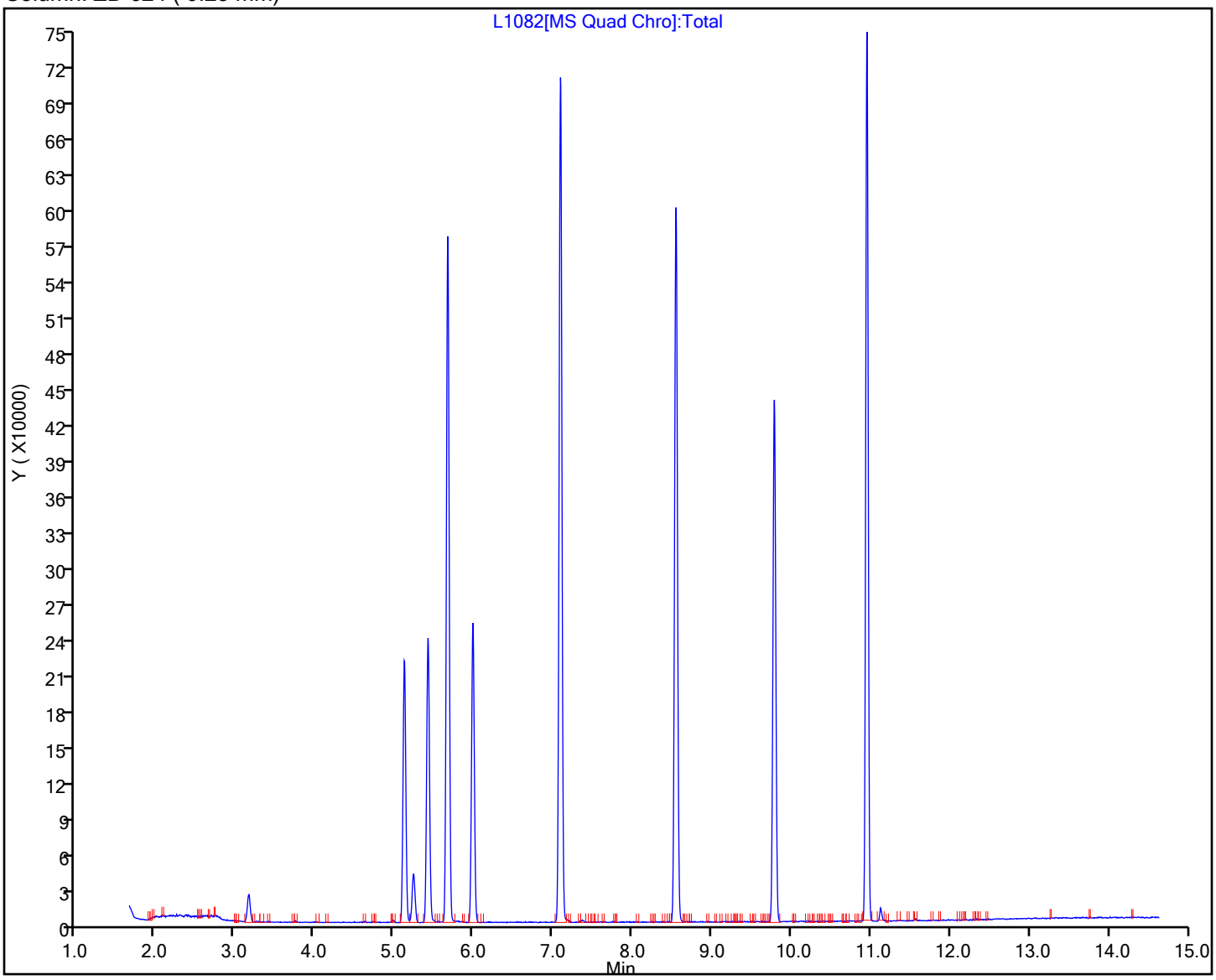
Report Date: 29-Sep-2023 09:32:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1082.D

Injection Date:	29-Sep-2023 04:53:57	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-2	Lab Sample ID:	480-213168-2		
Client ID:	GW-M-28S-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	36
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1082.D
Lims ID: 480-213168-A-2
Client ID: GW-M-28S-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 04:53:57 ALS Bottle#: 0 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-2
Misc. Info.: 480-0114025-036
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:32:30 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

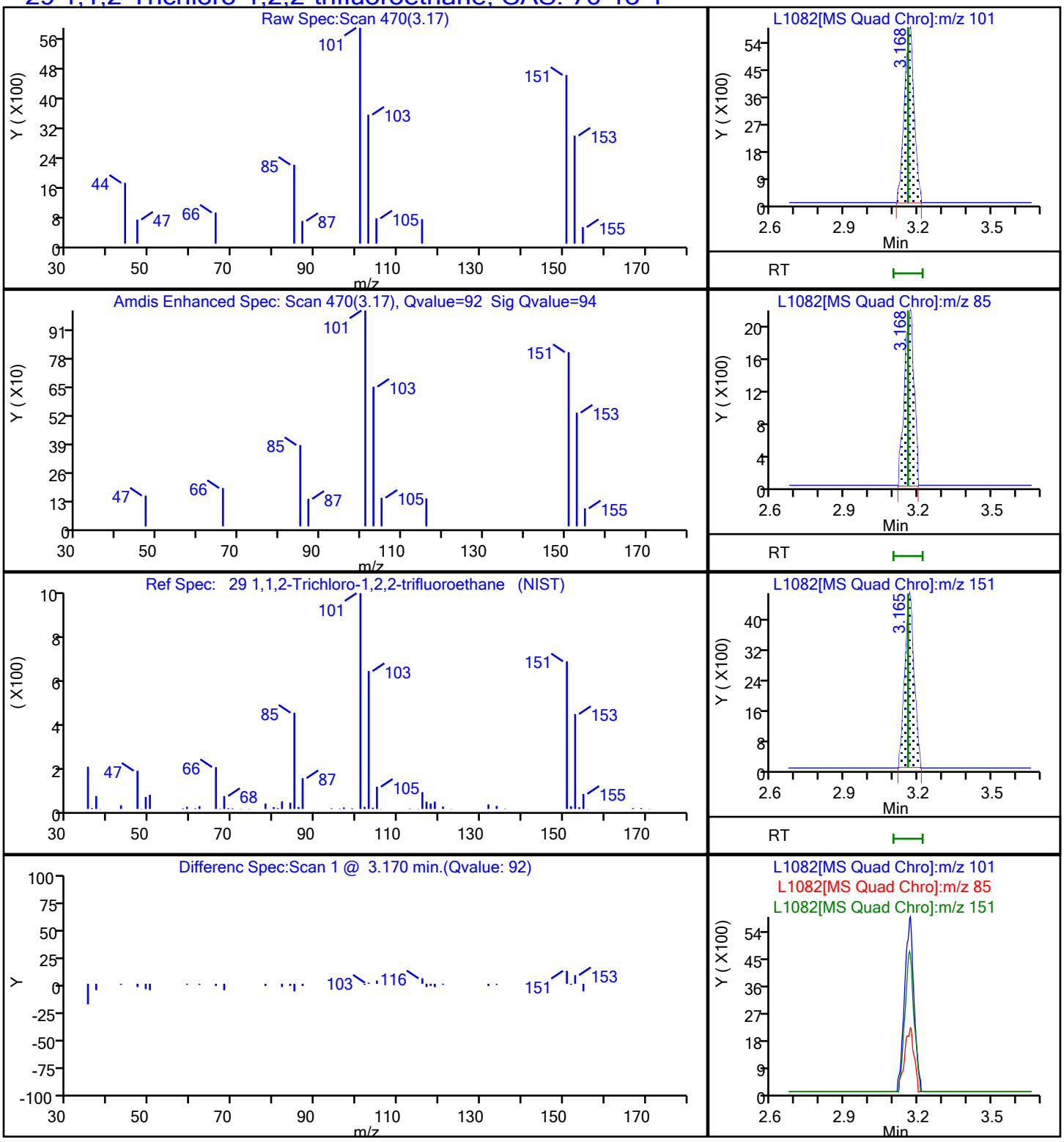
First Level Reviewer: R3QB Date: 29-Sep-2023 09:32:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.1	100.28
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.9	99.55
$ 6 Toluene-d8 (Surr)	25.0	25.0	100.08
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.7	98.67

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1082.D
Injection Date: 29-Sep-2023 04:53:57 Instrument ID: HP5977L
Lims ID: 480-213168-A-2 Lab Sample ID: 480-213168-2
Client ID: GW-M-28S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

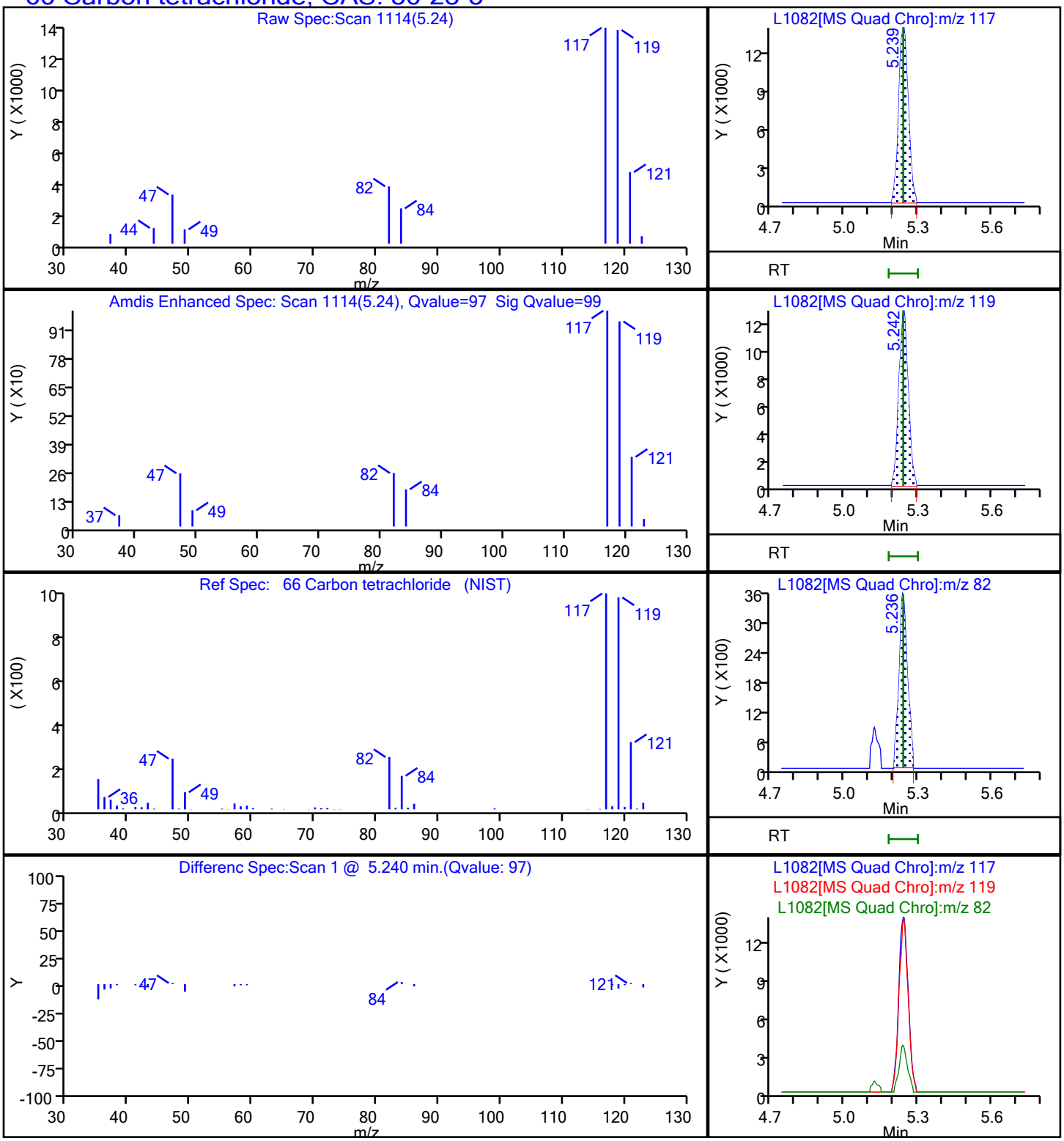
29 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1082.D
Injection Date: 29-Sep-2023 04:53:57 Instrument ID: HP5977L
Lims ID: 480-213168-A-2 Lab Sample ID: 480-213168-2
Client ID: GW-M-28S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

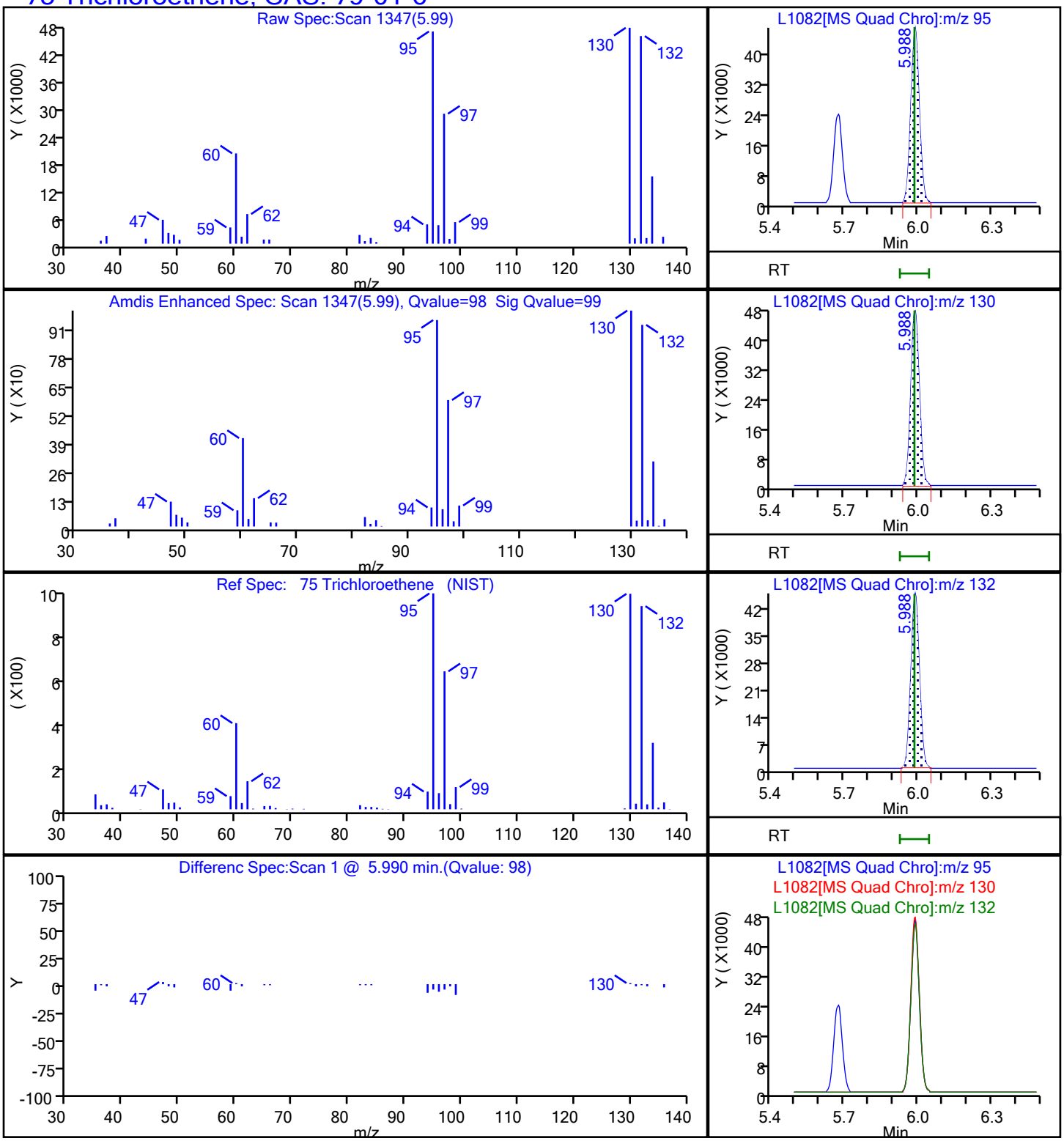
66 Carbon tetrachloride, CAS: 56-23-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1082.D
Injection Date: 29-Sep-2023 04:53:57 Instrument ID: HP5977L
Lims ID: 480-213168-A-2 Lab Sample ID: 480-213168-2
Client ID: GW-M-28S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

75 Trichloroethene, CAS: 79-01-6



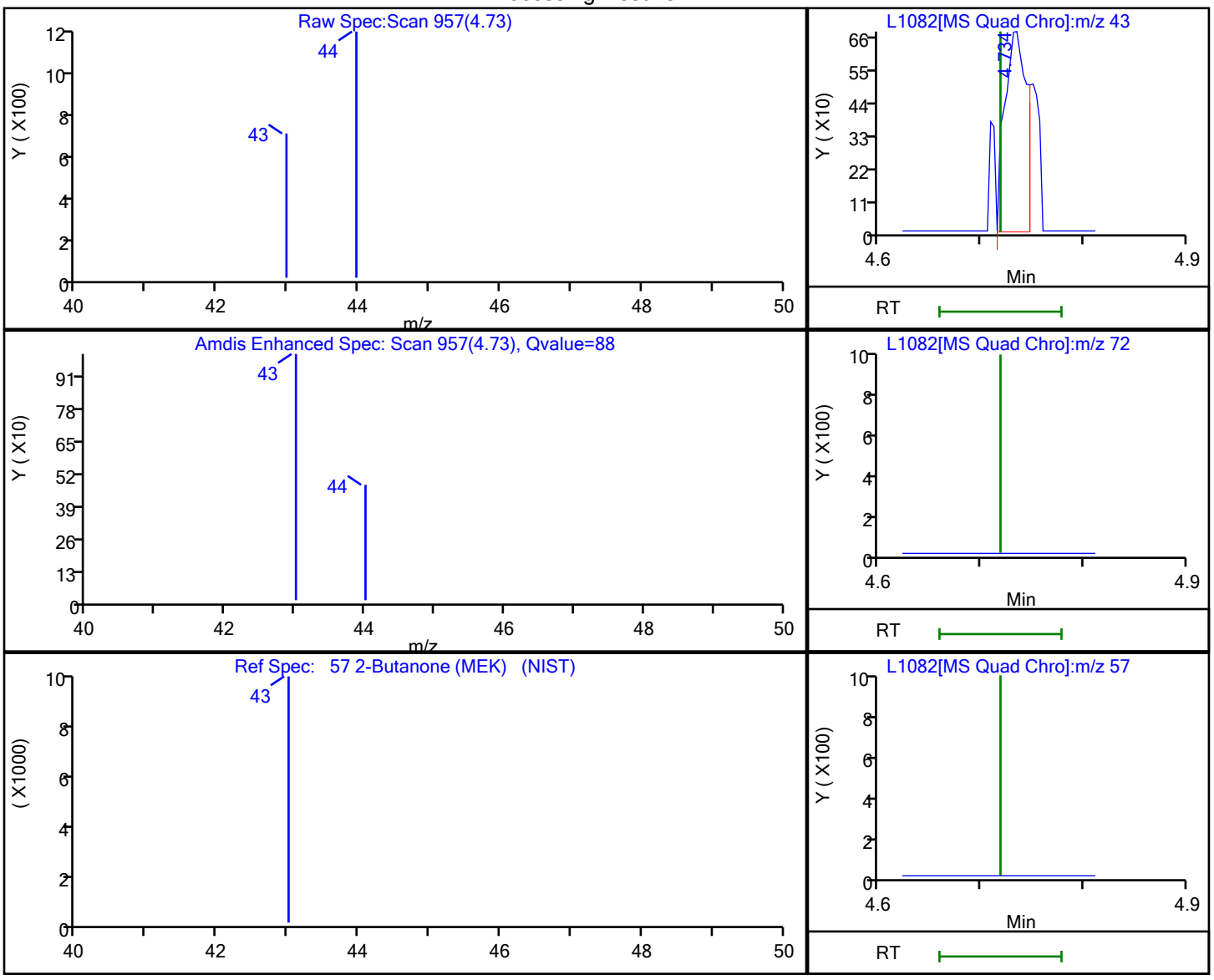
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1082.D				
Injection Date:	29-Sep-2023 04:53:57	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-2	Lab Sample ID:	480-213168-2		
Client ID:	GW-M-28S-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	36
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	1019	0.158539
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 29-Sep-2023 09:32:19 -04:00:00 (UTC)

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

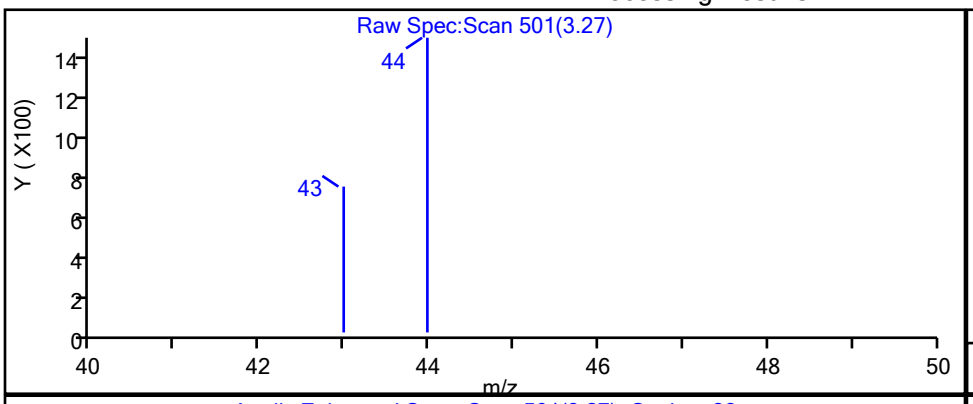
User Disabled Compound Report

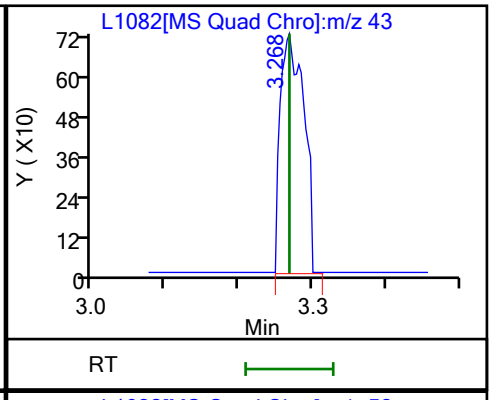
Eurofins Buffalo

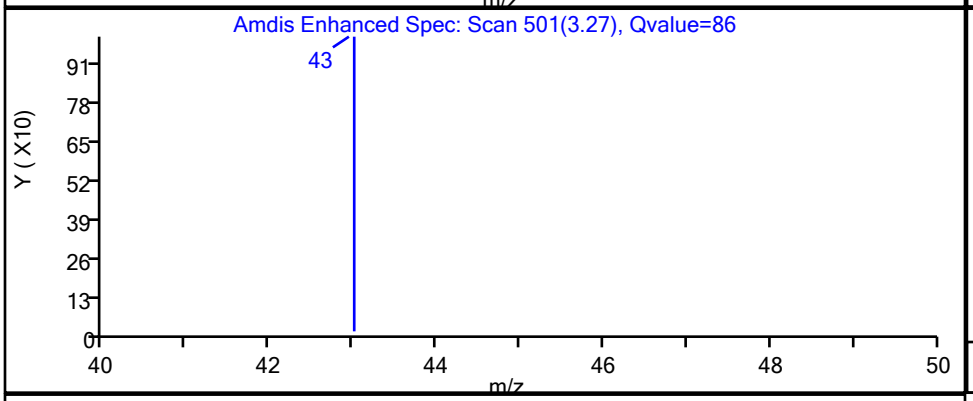
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1082.D
Injection Date: 29-Sep-2023 04:53:57 Instrument ID: HP5977L
Lims ID: 480-213168-A-2 Lab Sample ID: 480-213168-2
Client ID: GW-M-28S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

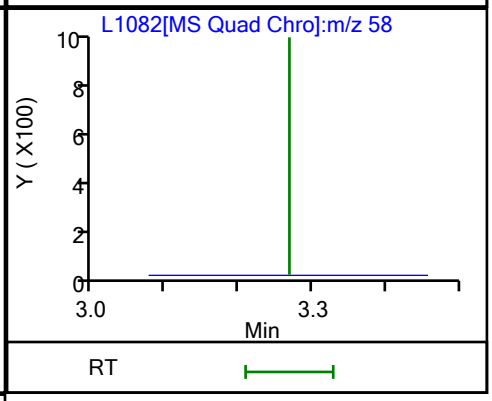
31 Acetone, CAS: 67-64-1

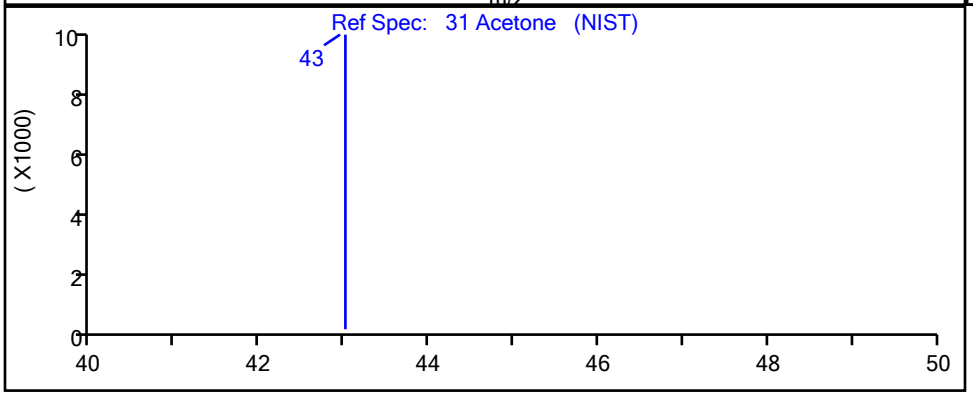
Processing Results











RT	Mass	Response	Amount
3.27	43.00	1615	0.494226
3.27	58.00	0	

Reviewer: R3QB, 29-Sep-2023 09:32:15 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-29S-09272023 | Lab Sample ID: 480-213168-3

Matrix: Water | Lab File ID: L1083.D

Analysis Method: 8260C | Date Collected: 09/27/2023 12:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 05:18

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U *+	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	2.2		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-29S-09272023 | Lab Sample ID: 480-213168-3

Matrix: Water | Lab File ID: L1083.D

Analysis Method: 8260C | Date Collected: 09/27/2023 12:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 05:18

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	4.2		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1083.D
Lims ID: 480-213168-A-3
Client ID: GW-M-29S-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 05:18:14 ALS Bottle#: 0 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-3
Misc. Info.: 480-0114025-037
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:32:52 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:32:52

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	129913	25.0	
*	2 Chlorobenzene-d5	117	8.544	8.544	0.000	86	491767	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	261459	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	172560	25.8	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	213513	25.9	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	653925	25.8	
$	7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	97	180939	25.6	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.053				ND	
	18 Bromomethane	94		2.413				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.721				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.191				ND	
	31 Acetone	43		3.268				ND	U
	35 Carbon disulfide	76		3.416				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.651				ND	
	41 Methyl tert-butyl ether	73		3.808				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.210				ND	
	58 cis-1,2-Dichloroethene	96		4.705				ND	
	57 2-Butanone (MEK)	43		4.718				ND	
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117	5.242	5.239	0.003	97	18536	2.15	
	70 Benzene	78		5.432				ND	
	72 1,2-Dichloroethane	62		5.487				ND	
	75 Trichloroethene	95	5.985	5.985	0.000	96	33668	4.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

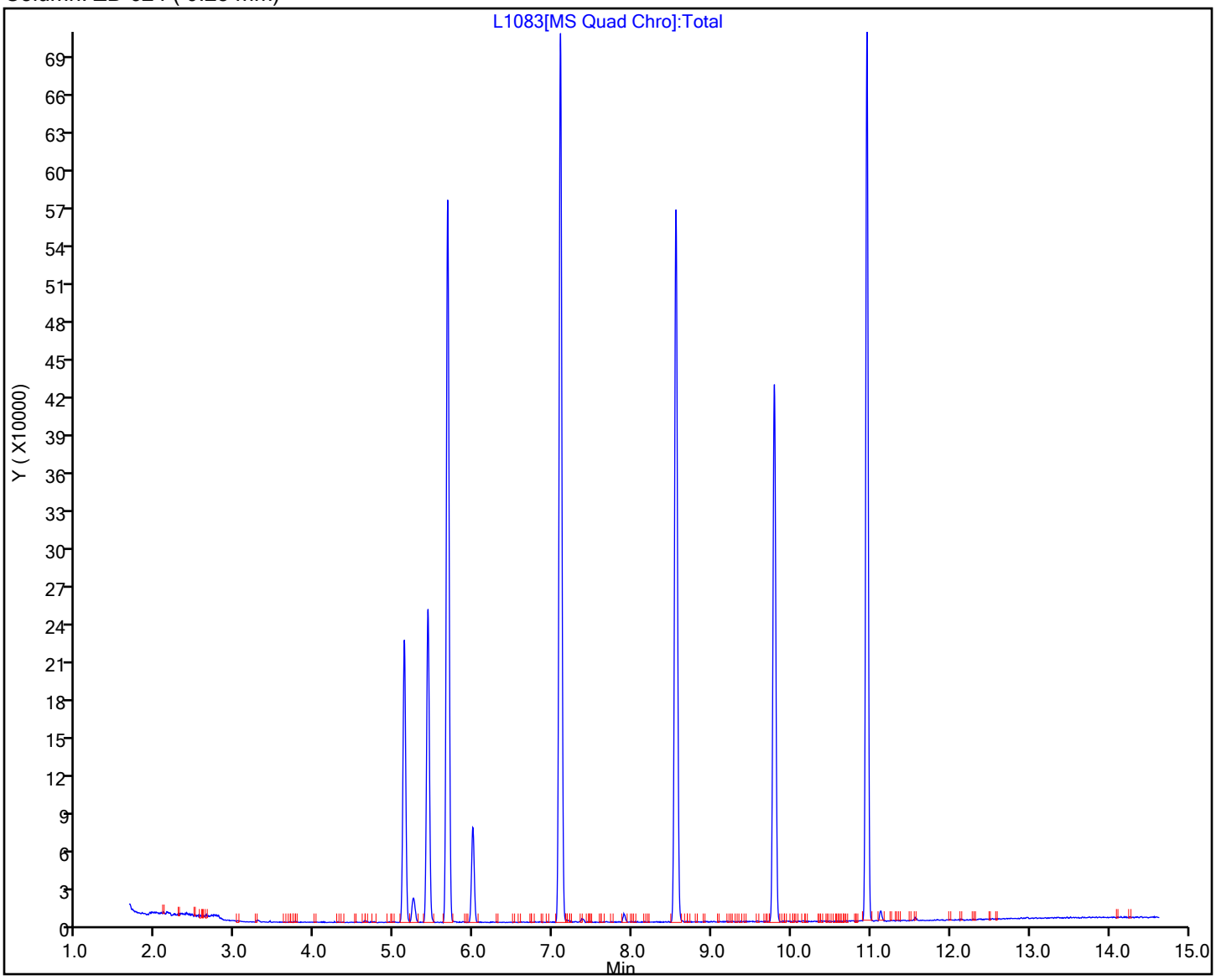
Report Date: 29-Sep-2023 09:32:52 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1083.D

Injection Date:	29-Sep-2023 05:18:14	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-3	Lab Sample ID:	480-213168-3		
Client ID:	GW-M-29S-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	37
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1083.D
Lims ID: 480-213168-A-3
Client ID: GW-M-29S-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 05:18:14 ALS Bottle#: 0 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-3
Misc. Info.: 480-0114025-037
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:32:52 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

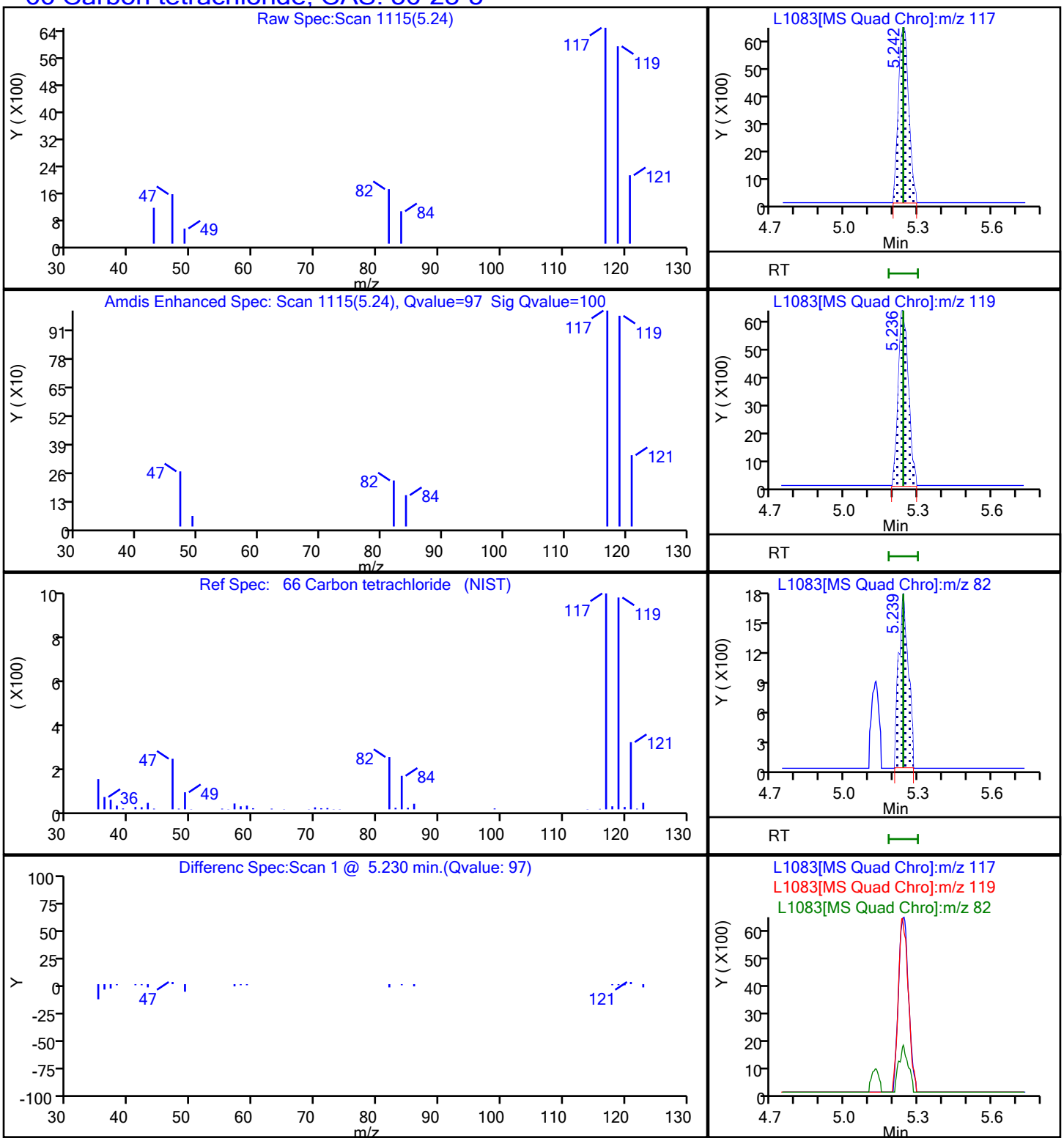
First Level Reviewer: R3QB Date: 29-Sep-2023 09:32:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.8	103.33
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.9	103.47
$ 6 Toluene-d8 (Surr)	25.0	25.8	103.31
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.6	102.23

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1083.D
Injection Date: 29-Sep-2023 05:18:14 Instrument ID: HP5977L
Lims ID: 480-213168-A-3 Lab Sample ID: 480-213168-3
Client ID: GW-M-29S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

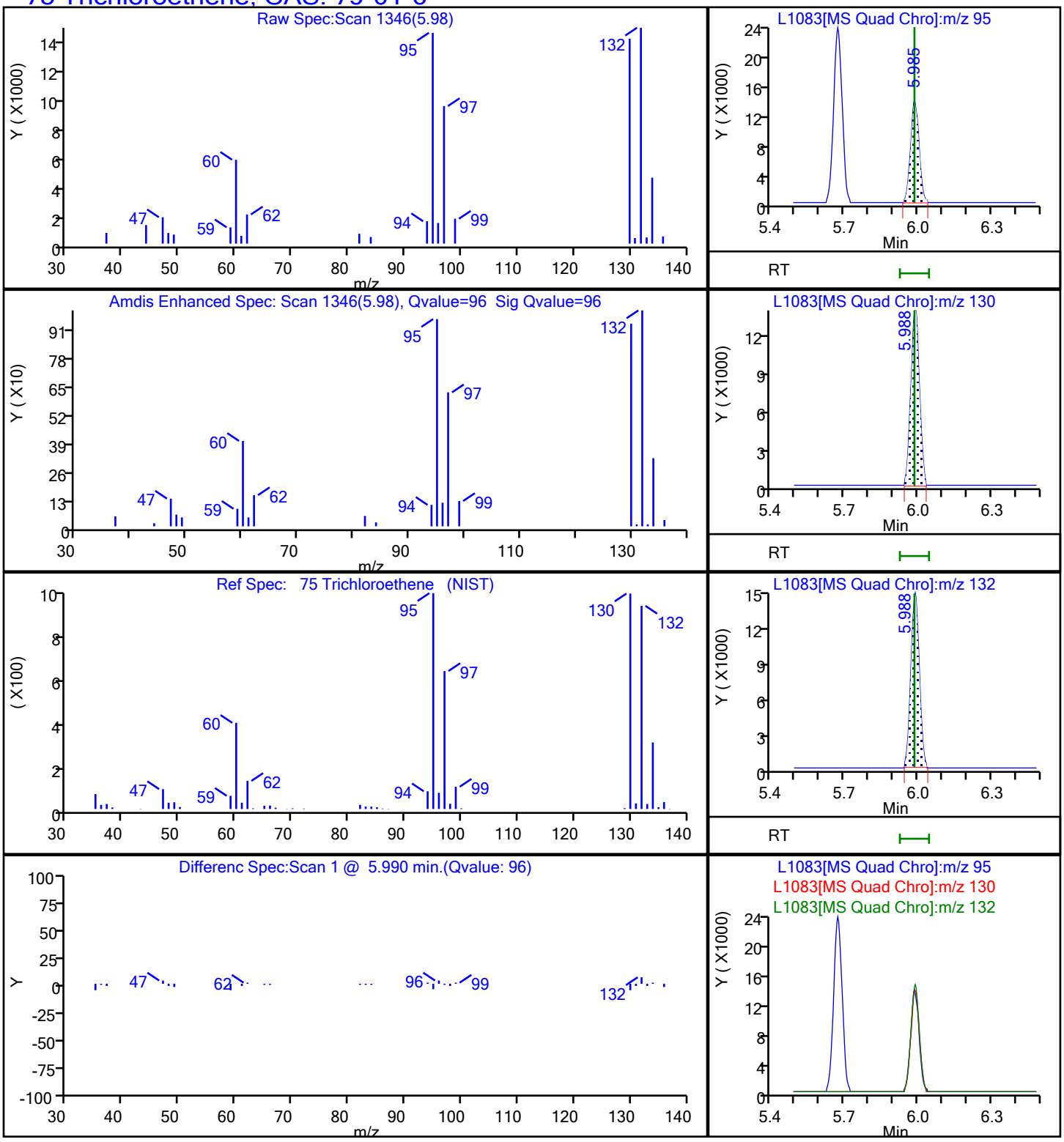
66 Carbon tetrachloride, CAS: 56-23-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1083.D
Injection Date: 29-Sep-2023 05:18:14 Instrument ID: HP5977L
Lims ID: 480-213168-A-3 Lab Sample ID: 480-213168-3
Client ID: GW-M-29S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

75 Trichloroethene, CAS: 79-01-6



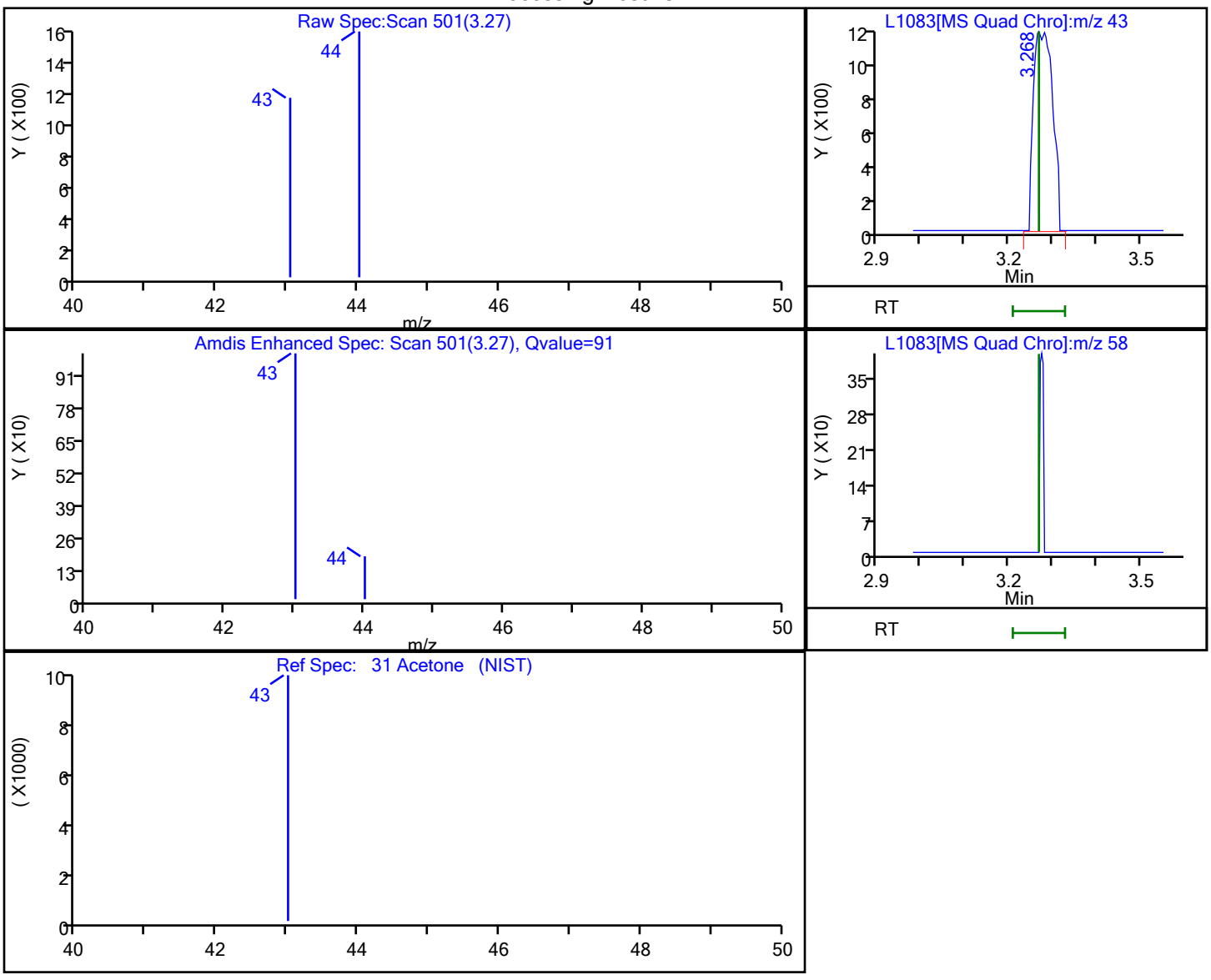
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1083.D
Injection Date: 29-Sep-2023 05:18:14 Instrument ID: HP5977L
Lims ID: 480-213168-A-3 Lab Sample ID: 480-213168-3
Client ID: GW-M-29S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

31 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.27	43.00	3421	1.065501
3.27	58.00	0	

Reviewer: R3QB, 29-Sep-2023 09:32:39 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-MW-4-09272023 | Lab Sample ID: 480-213168-4

Matrix: Water | Lab File ID: L1084.D

Analysis Method: 8260C | Date Collected: 09/27/2023 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 05:42

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-MW-4-09272023 | Lab Sample ID: 480-213168-4

Matrix: Water | Lab File ID: L1084.D

Analysis Method: 8260C | Date Collected: 09/27/2023 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 05:42

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1084.D
Lims ID: 480-213168-A-4
Client ID: GW-MW-4-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 05:42:55 ALS Bottle#: 0 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-4
Misc. Info.: 480-0114025-038
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:33:17 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:33:17

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	128987	25.0	
*	2 Chlorobenzene-d5	117	8.548	8.544	0.004	87	485301	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	271811	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	173249	26.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	214401	26.2	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	642622	25.7	
$	7 4-Bromofluorobenzene (Surr)	174	9.786	9.785	0.001	98	168655	24.1	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.053				ND	
	18 Bromomethane	94		2.413				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.721				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.191				ND	
	31 Acetone	43		3.268				ND	U
	35 Carbon disulfide	76		3.416				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.651				ND	
	41 Methyl tert-butyl ether	73		3.808				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.210				ND	
	58 cis-1,2-Dichloroethene	96		4.705				ND	
	57 2-Butanone (MEK)	43		4.718				ND	U
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117		5.239				ND	
	70 Benzene	78		5.432				ND	
	72 1,2-Dichloroethane	62		5.487				ND	
	75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

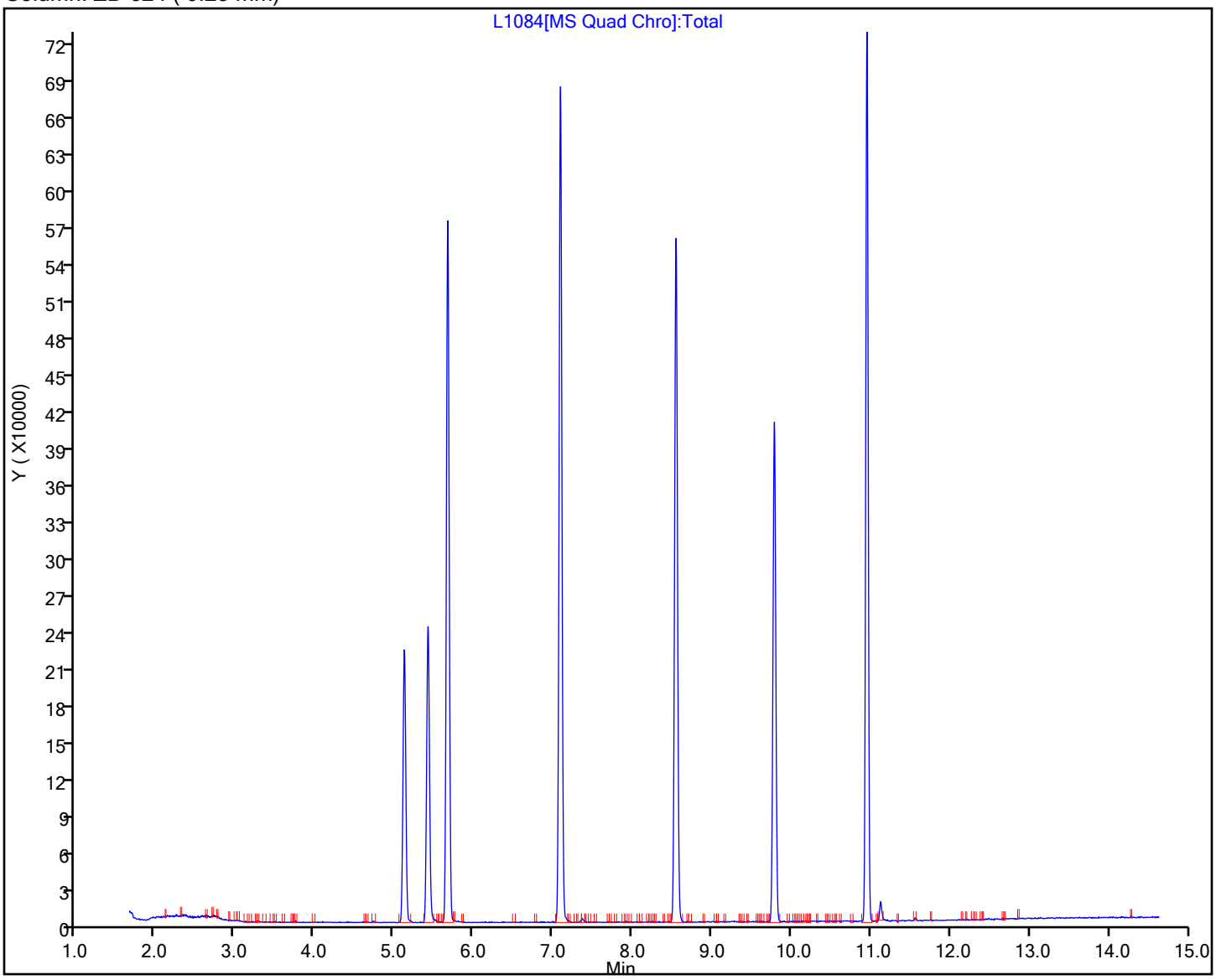
Report Date: 29-Sep-2023 09:33:17 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1084.D

Injection Date:	29-Sep-2023 05:42:55	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-4	Lab Sample ID:	480-213168-4		
Client ID:	GW-MW-4-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	38
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1084.D
Lims ID: 480-213168-A-4
Client ID: GW-MW-4-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 05:42:55 ALS Bottle#: 0 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-4
Misc. Info.: 480-0114025-038
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:33:17 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:33:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.1	104.49
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	26.2	104.65
$ 6 Toluene-d8 (Surr)	25.0	25.7	102.88
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.1	96.56

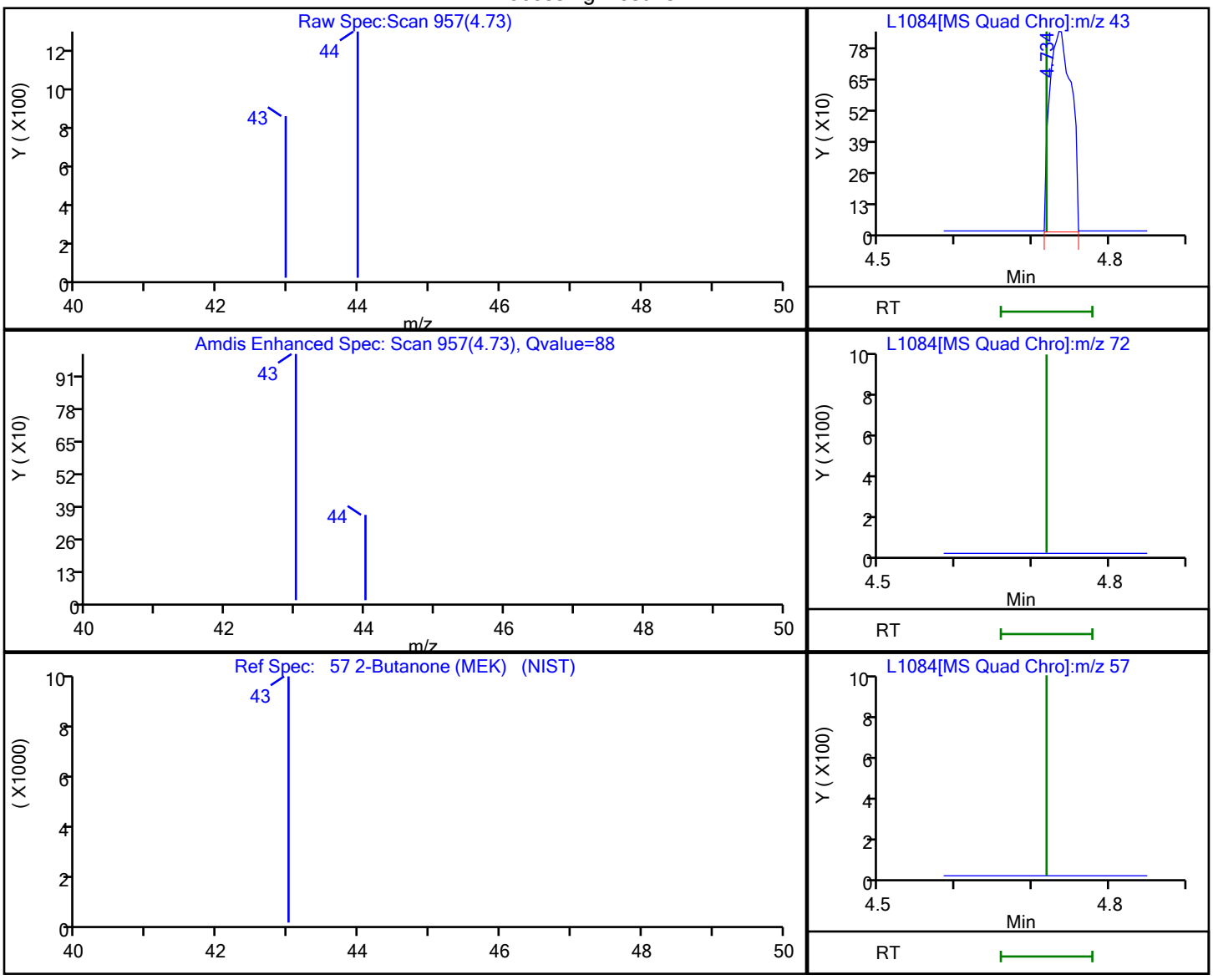
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1084.D
Injection Date: 29-Sep-2023 05:42:55 Instrument ID: HP5977L
Lims ID: 480-213168-A-4 Lab Sample ID: 480-213168-4
Client ID: GW-MW-4-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	1664	0.265380
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 29-Sep-2023 09:33:05 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

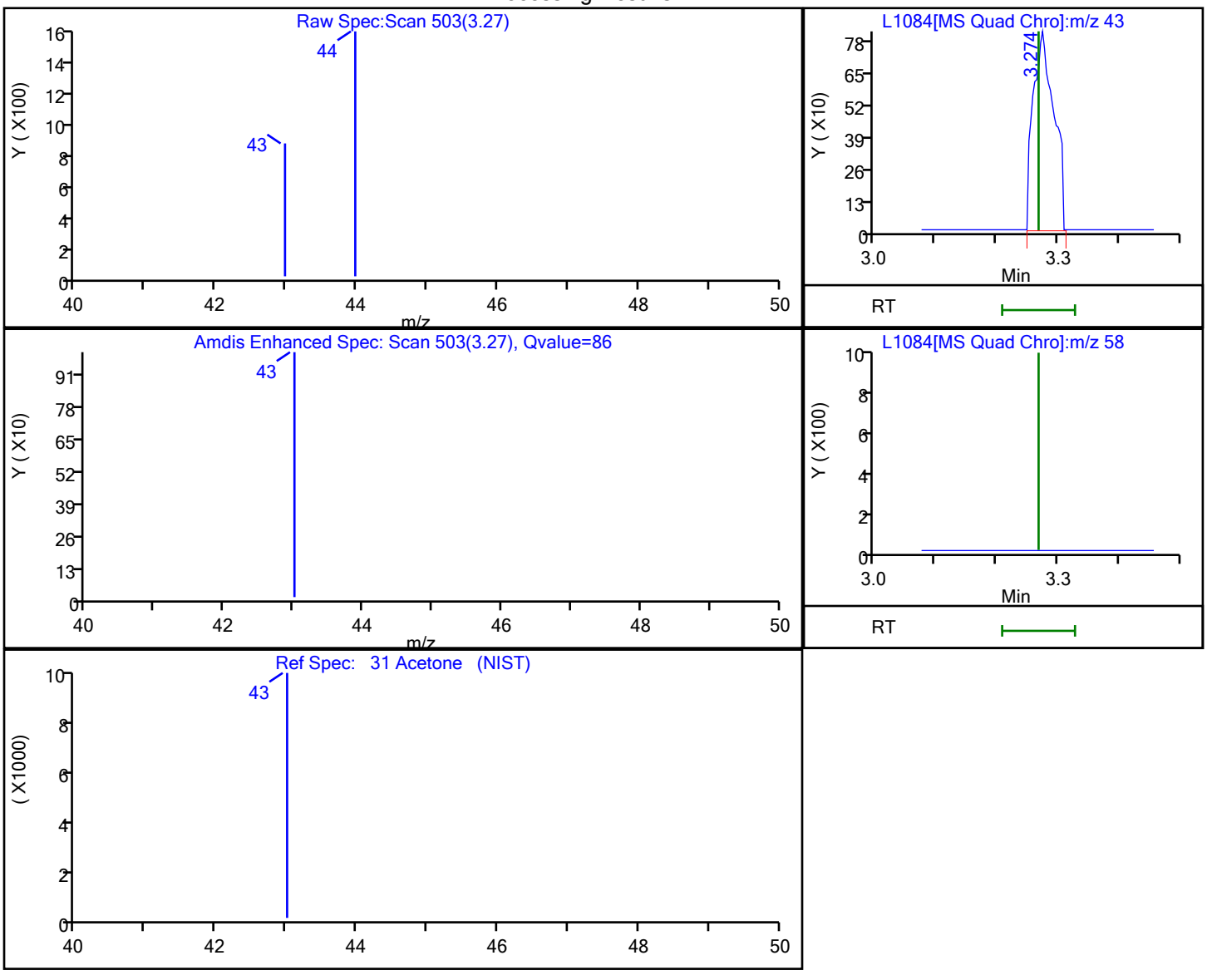
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1084.D
Injection Date: 29-Sep-2023 05:42:55 Instrument ID: HP5977L
Lims ID: 480-213168-A-4 Lab Sample ID: 480-213168-4
Client ID: GW-MW-4-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

31 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.27	43.00	1931	0.605745
3.27	58.00	0	

Reviewer: R3QB, 29-Sep-2023 09:32:58 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-29D-09272023 | Lab Sample ID: 480-213168-5

Matrix: Water | Lab File ID: L1085.D

Analysis Method: 8260C | Date Collected: 09/27/2023 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 06:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3		1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U *+	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	9.0		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-29D-09272023 | Lab Sample ID: 480-213168-5

Matrix: Water | Lab File ID: L1085.D

Analysis Method: 8260C | Date Collected: 09/27/2023 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 06:07

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	27		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	108		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D
Lims ID: 480-213168-A-5
Client ID: GW-MW-29D-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 06:07:03 ALS Bottle#: 0 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-5
Misc. Info.: 480-0114025-039
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:34:01 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:34:01

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.673	5.670	0.003	99	125655	25.0	
*	2 Chlorobenzene-d5	117	8.547	8.544	0.003	87	466755	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.952	10.953	-0.001	96	255697	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.126	5.123	0.003	92	172647	26.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	215033	26.9	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	94	648334	27.0	
$	7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	98	180710	26.9	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.053				ND	
	18 Bromomethane	94		2.413				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.721				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.158	3.159	-0.001	92	9523	1.33	
	30 1,1-Dichloroethene	96		3.191				ND	
	31 Acetone	43		3.268				ND	U
	35 Carbon disulfide	76		3.416				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.651				ND	
	41 Methyl tert-butyl ether	73		3.808				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.210				ND	
	58 cis-1,2-Dichloroethene	96		4.705				ND	
	57 2-Butanone (MEK)	43		4.718				ND	U
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	U
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117	5.242	5.239	0.003	98	74965	9.00	
	70 Benzene	78		5.432				ND	
	72 1,2-Dichloroethane	62		5.487				ND	
	75 Trichloroethene	95	5.988	5.985	0.003	98	215146	27.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

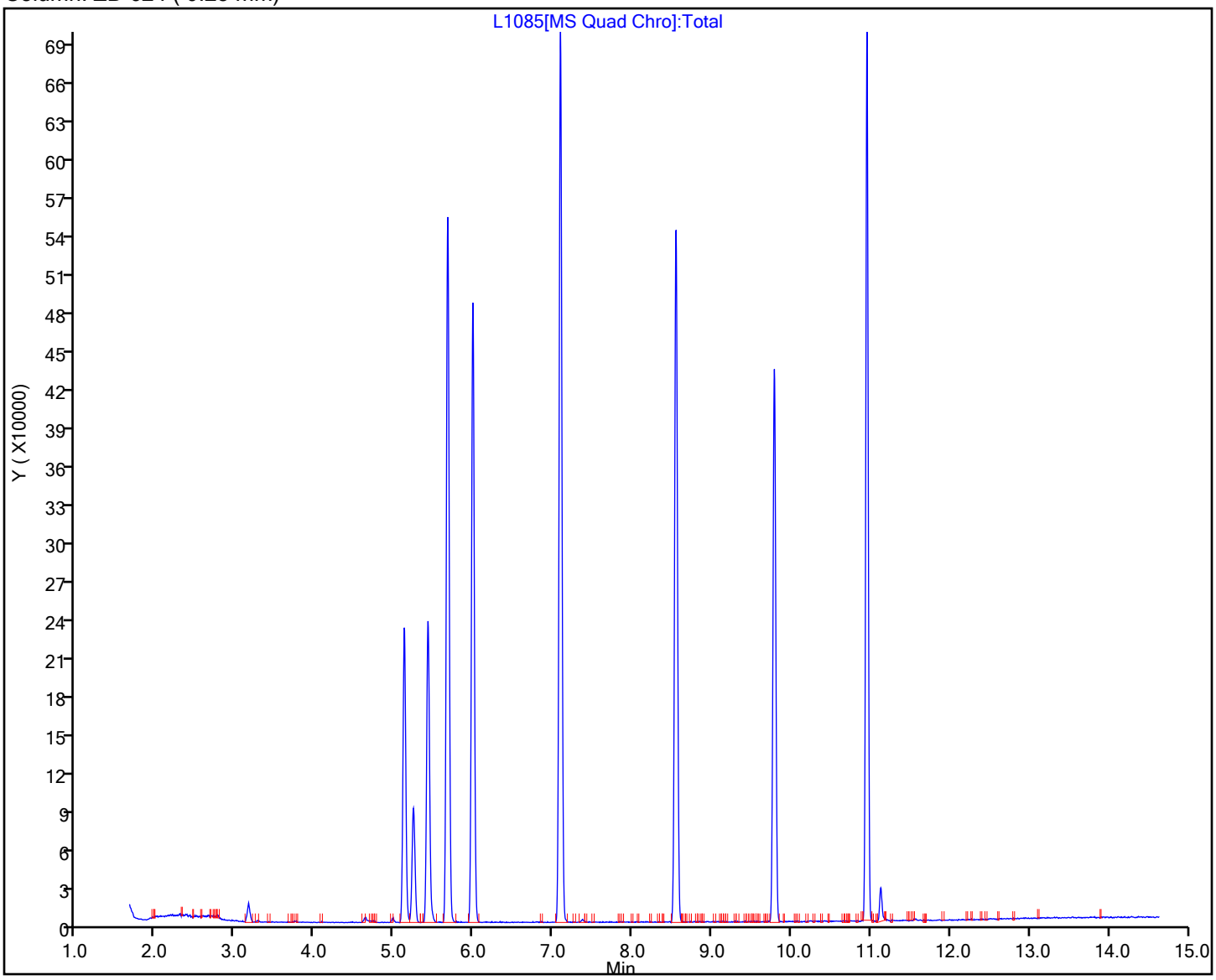
Report Date: 29-Sep-2023 09:34:02 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D

Injection Date:	29-Sep-2023 06:07:03	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-5	Lab Sample ID:	480-213168-5		
Client ID:	GW-MW-29D-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	39
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D
Lims ID: 480-213168-A-5
Client ID: GW-MW-29D-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 06:07:03 ALS Bottle#: 0 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-5
Misc. Info.: 480-0114025-039
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:34:01 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

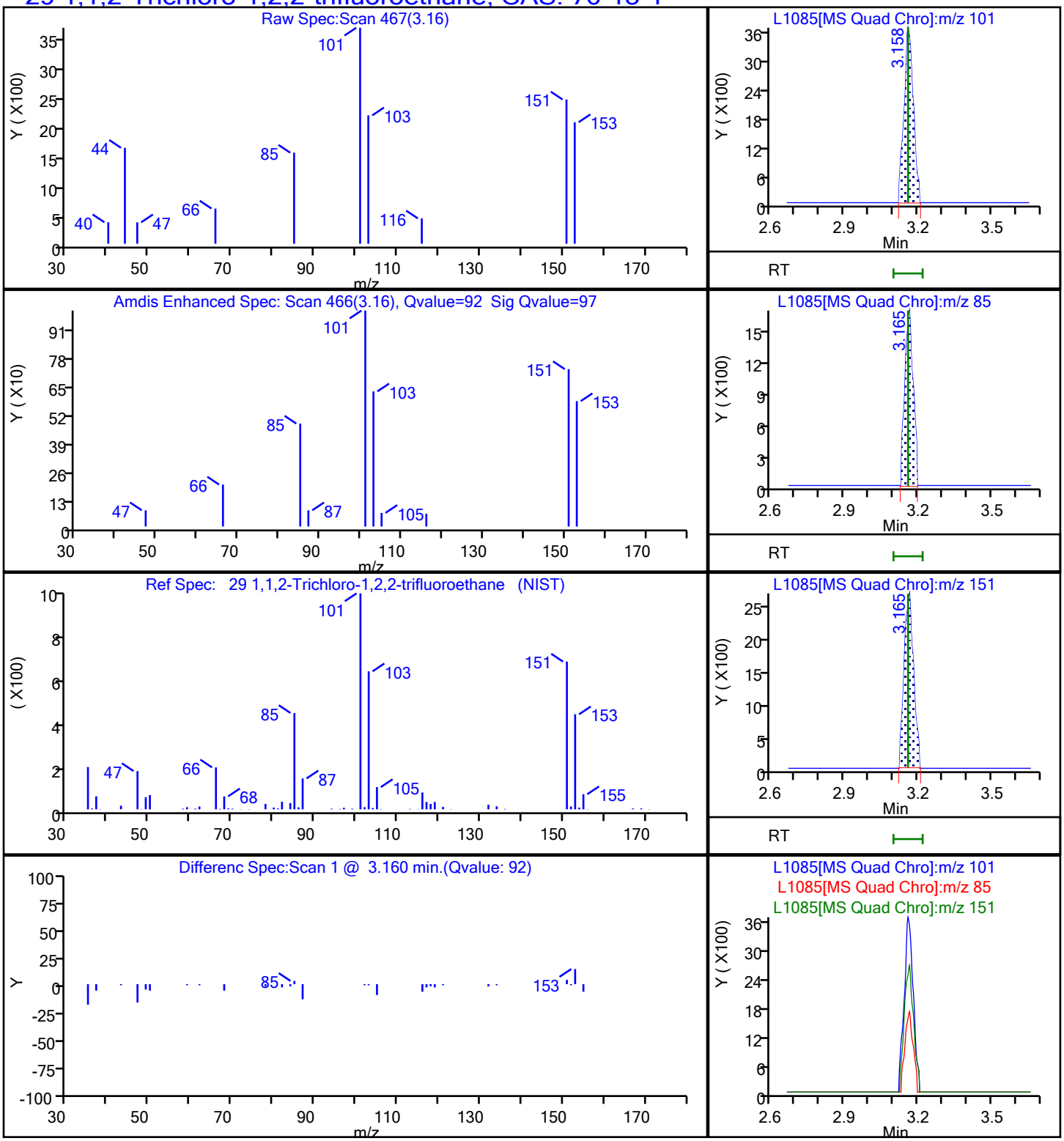
First Level Reviewer: R3QB Date: 29-Sep-2023 09:34:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.7	106.89
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	26.9	107.74
$ 6 Toluene-d8 (Surr)	25.0	27.0	107.91
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.9	107.57

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D
Injection Date: 29-Sep-2023 06:07:03 Instrument ID: HP5977L
Lims ID: 480-213168-A-5 Lab Sample ID: 480-213168-5
Client ID: GW-MW-29D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

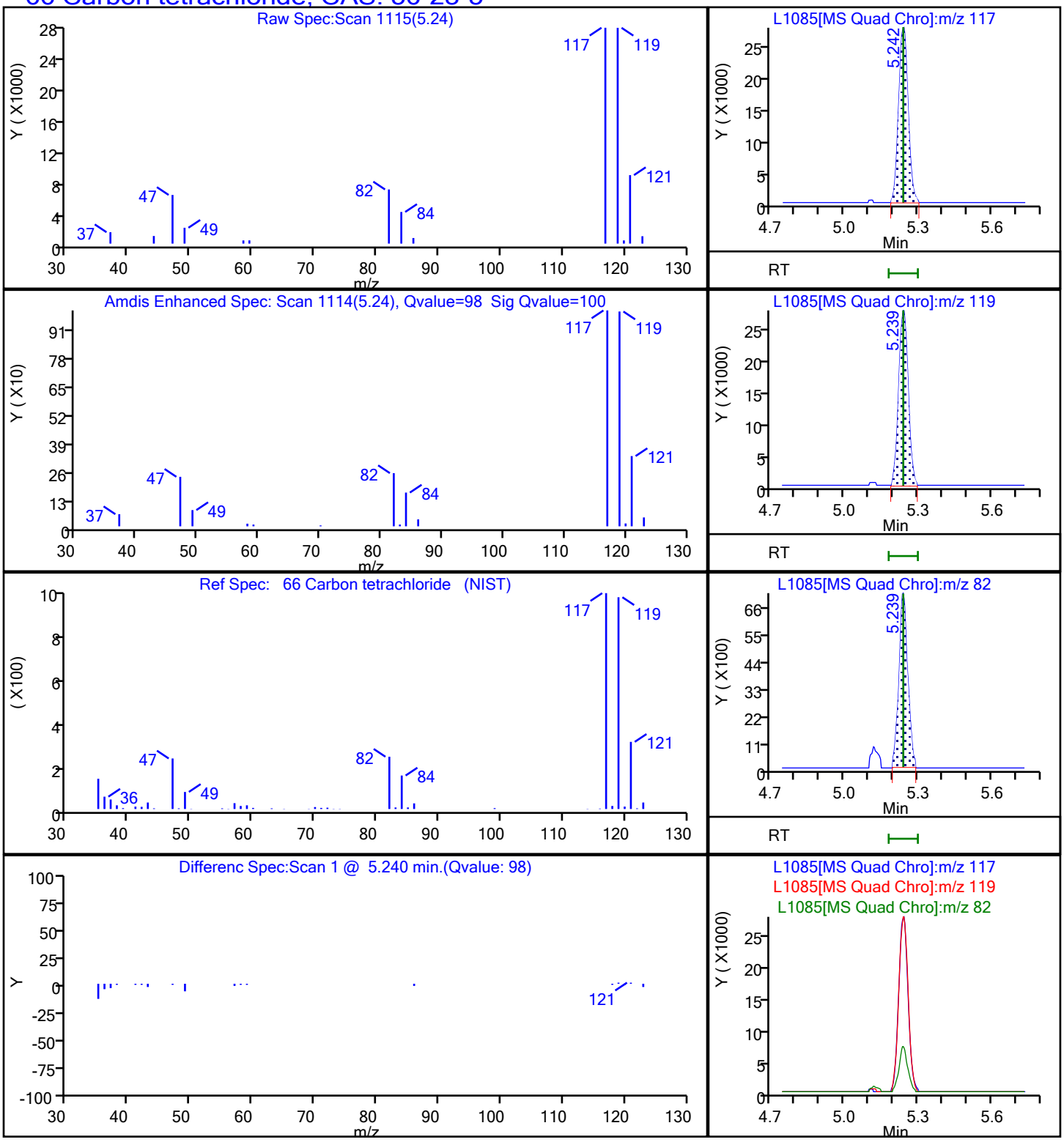
29 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D
Injection Date: 29-Sep-2023 06:07:03 Instrument ID: HP5977L
Lims ID: 480-213168-A-5 Lab Sample ID: 480-213168-5
Client ID: GW-MW-29D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

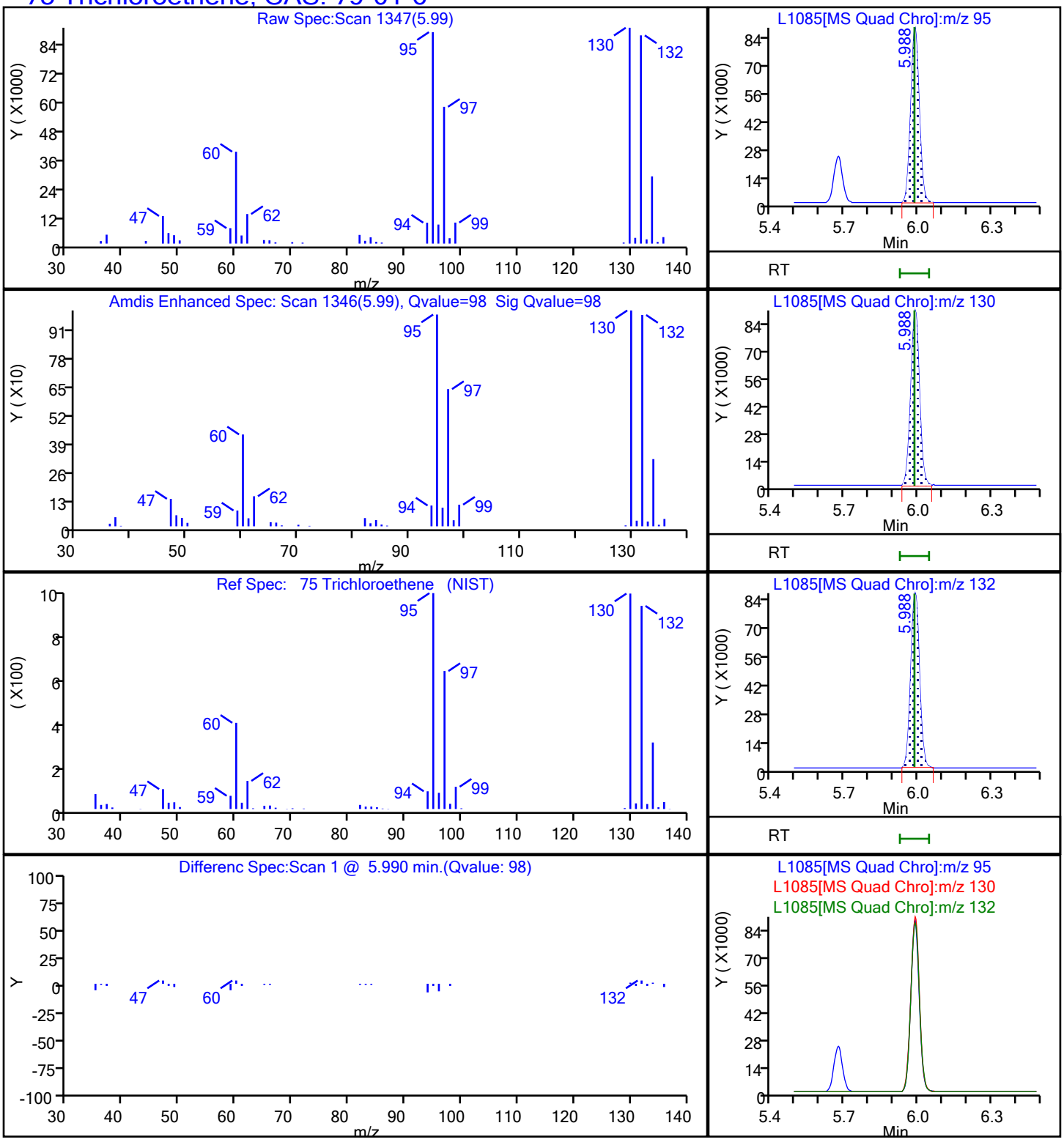
66 Carbon tetrachloride, CAS: 56-23-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D
Injection Date: 29-Sep-2023 06:07:03 Instrument ID: HP5977L
Lims ID: 480-213168-A-5 Lab Sample ID: 480-213168-5
Client ID: GW-MW-29D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

75 Trichloroethene, CAS: 79-01-6



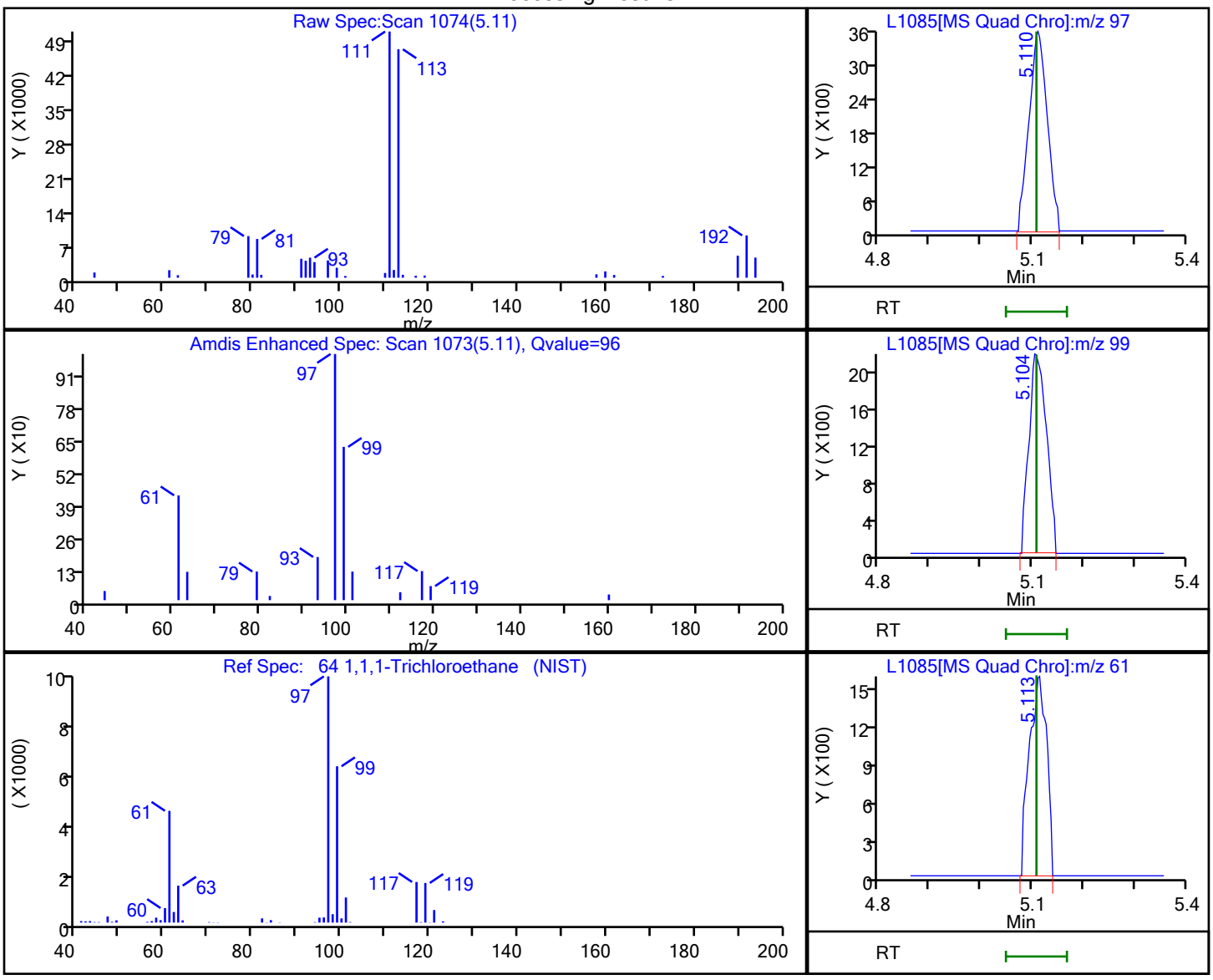
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D
Injection Date: 29-Sep-2023 06:07:03 Instrument ID: HP5977L
Lims ID: 480-213168-A-5 Lab Sample ID: 480-213168-5
Client ID: GW-MW-29D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

64 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
5.11	97.00	8870	0.857559
5.10	99.00	5125	
5.11	61.00	3703	

Reviewer: R3QB, 29-Sep-2023 09:33:49 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

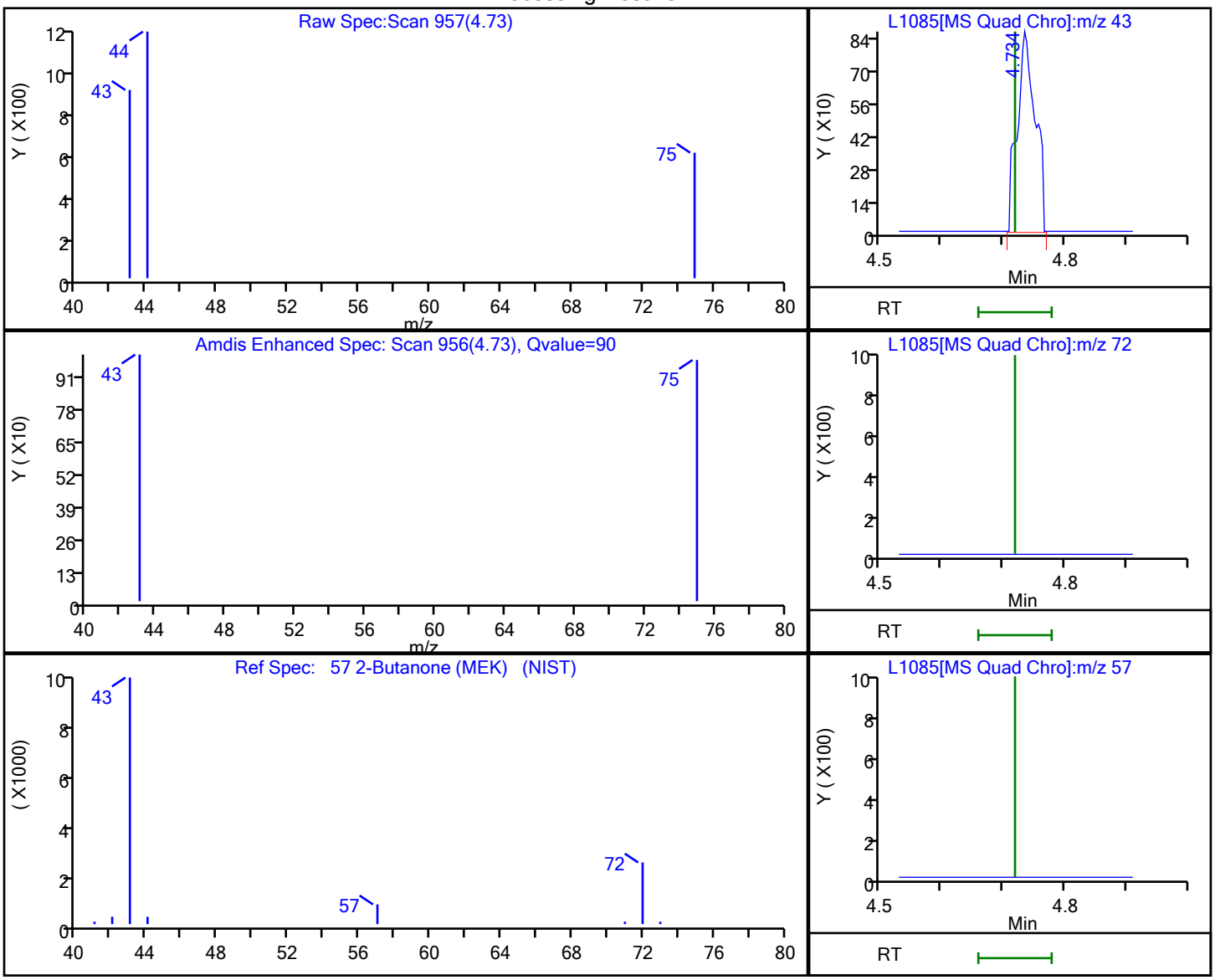
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D				
Injection Date:	29-Sep-2023 06:07:03	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-5	Lab Sample ID:	480-213168-5		
Client ID:	GW-MW-29D-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	39
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	1766	0.289116
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 29-Sep-2023 09:33:42 -04:00:00 (UTC)

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

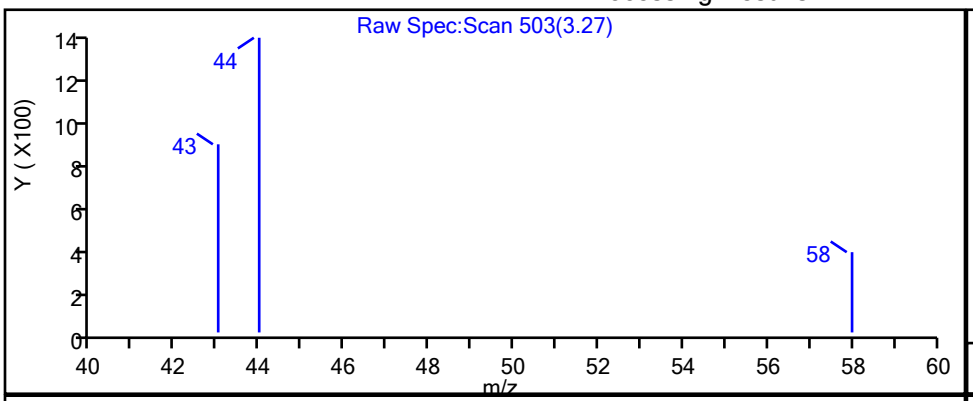
User Disabled Compound Report

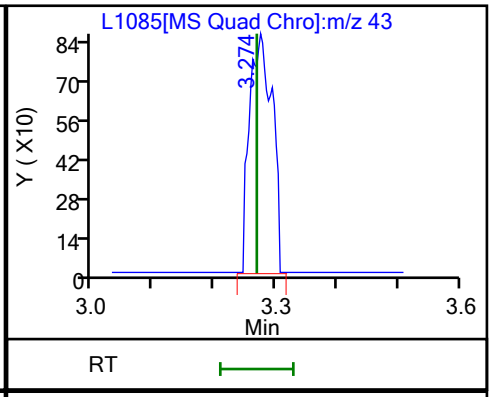
Eurofins Buffalo

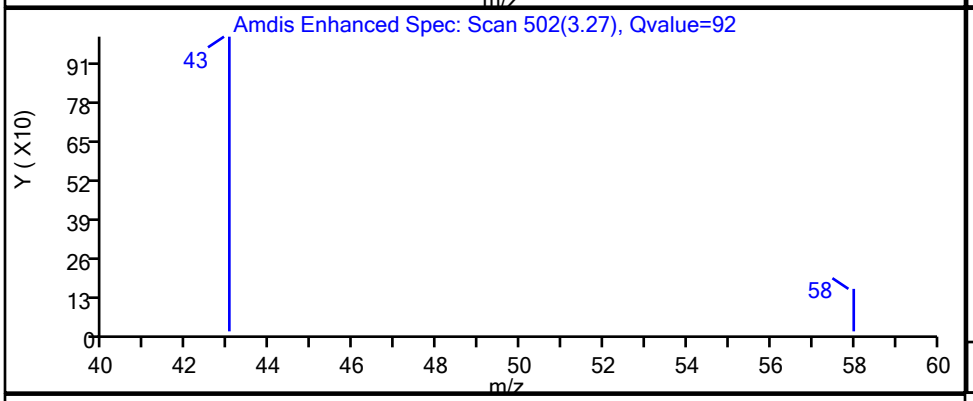
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1085.D
Injection Date: 29-Sep-2023 06:07:03 Instrument ID: HP5977L
Lims ID: 480-213168-A-5 Lab Sample ID: 480-213168-5
Client ID: GW-MW-29D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

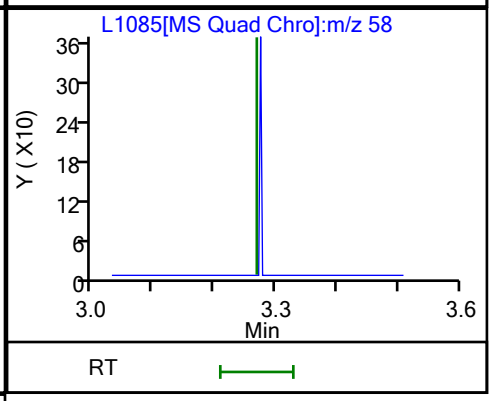
31 Acetone, CAS: 67-64-1

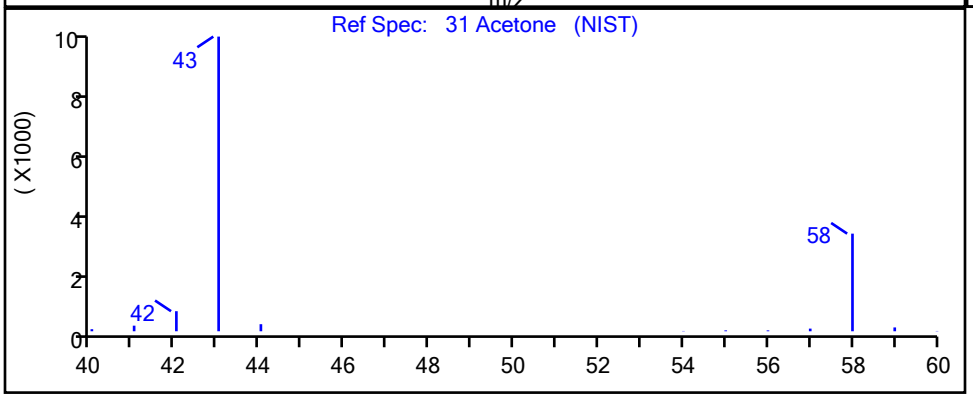
Processing Results











RT	Mass	Response	Amount
3.27	43.00	2227	0.717123
3.27	58.00	0	

Reviewer: R3QB, 29-Sep-2023 09:33:38 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-25D-09272023 | Lab Sample ID: 480-213168-6

Matrix: Water | Lab File ID: L1086.D

Analysis Method: 8260C | Date Collected: 09/27/2023 15:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 06:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	J	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U *+	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	19		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.1		1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-25D-09272023 | Lab Sample ID: 480-213168-6

Matrix: Water | Lab File ID: L1086.D

Analysis Method: 8260C | Date Collected: 09/27/2023 15:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 06:31

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	51		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D
Lims ID: 480-213168-A-6
Client ID: GW-M-25D-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 06:31:36 ALS Bottle#: 0 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-6
Misc. Info.: 480-0114025-040
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:34:29 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:34:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	131503	25.0	
* 2 Chlorobenzene-d5	117	8.547	8.544	0.003	87	546700	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	314239	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	170851	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	97	210398	25.2	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	676875	24.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	98	190636	24.2	
10 Dichlorodifluoromethane	85		1.721				ND	
13 Chloromethane	50		1.940				ND	
14 Vinyl chloride	62		2.053				ND	
18 Bromomethane	94		2.413				ND	
19 Chloroethane	64		2.483				ND	
21 Trichlorofluoromethane	101		2.721				ND	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.162	3.159	0.003	81	4400	0.5862	
30 1,1-Dichloroethene	96		3.191				ND	
31 Acetone	43		3.268				ND	U
35 Carbon disulfide	76		3.416				ND	
38 Methyl acetate	43		3.525				ND	7
39 Methylene Chloride	84		3.651				ND	
41 Methyl tert-butyl ether	73		3.808				ND	
42 trans-1,2-Dichloroethene	96		3.837				ND	
50 1,1-Dichloroethane	63		4.210				ND	
58 cis-1,2-Dichloroethene	96		4.705				ND	
57 2-Butanone (MEK)	43		4.718				ND	U
62 Chloroform	83	4.978	4.975	0.003	94	15607	1.08	
64 1,1,1-Trichloroethane	97		5.107				ND	U
65 Cyclohexane	56		5.126				ND	
66 Carbon tetrachloride	117	5.239	5.239	0.000	98	166076	19.0	
70 Benzene	78		5.432				ND	
72 1,2-Dichloroethane	62		5.487				ND	
75 Trichloroethene	95	5.988	5.985	0.003	98	421081	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

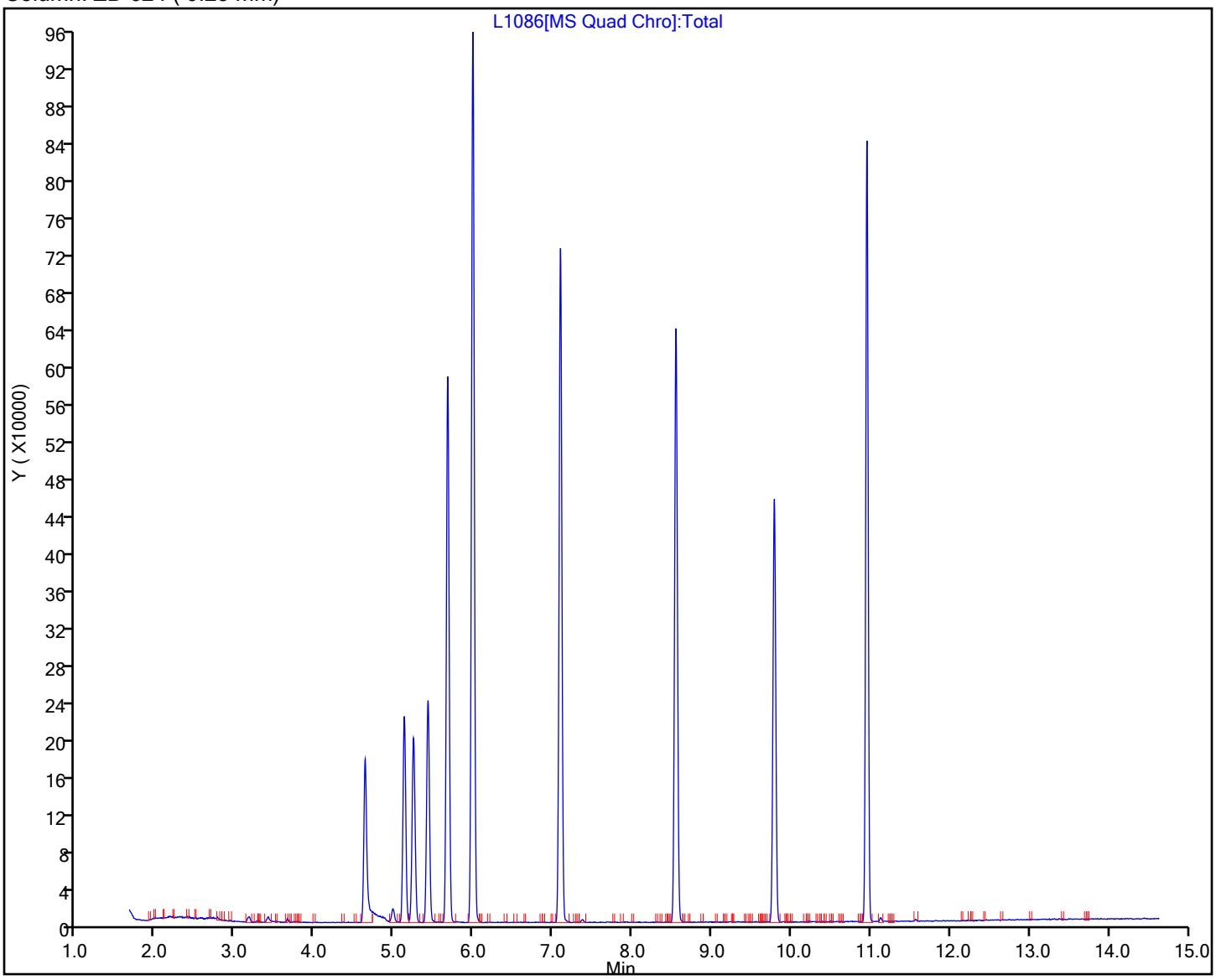
Report Date: 29-Sep-2023 09:34:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D

Injection Date:	29-Sep-2023 06:31:36	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-6	Lab Sample ID:	480-213168-6		
Client ID:	GW-M-25D-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	40
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D
Lims ID: 480-213168-A-6
Client ID: GW-M-25D-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 06:31:36 ALS Bottle#: 0 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-6
Misc. Info.: 480-0114025-040
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:34:29 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:34:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.3	101.07
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.2	100.73
$ 6 Toluene-d8 (Surr)	25.0	24.0	96.19
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.2	96.88

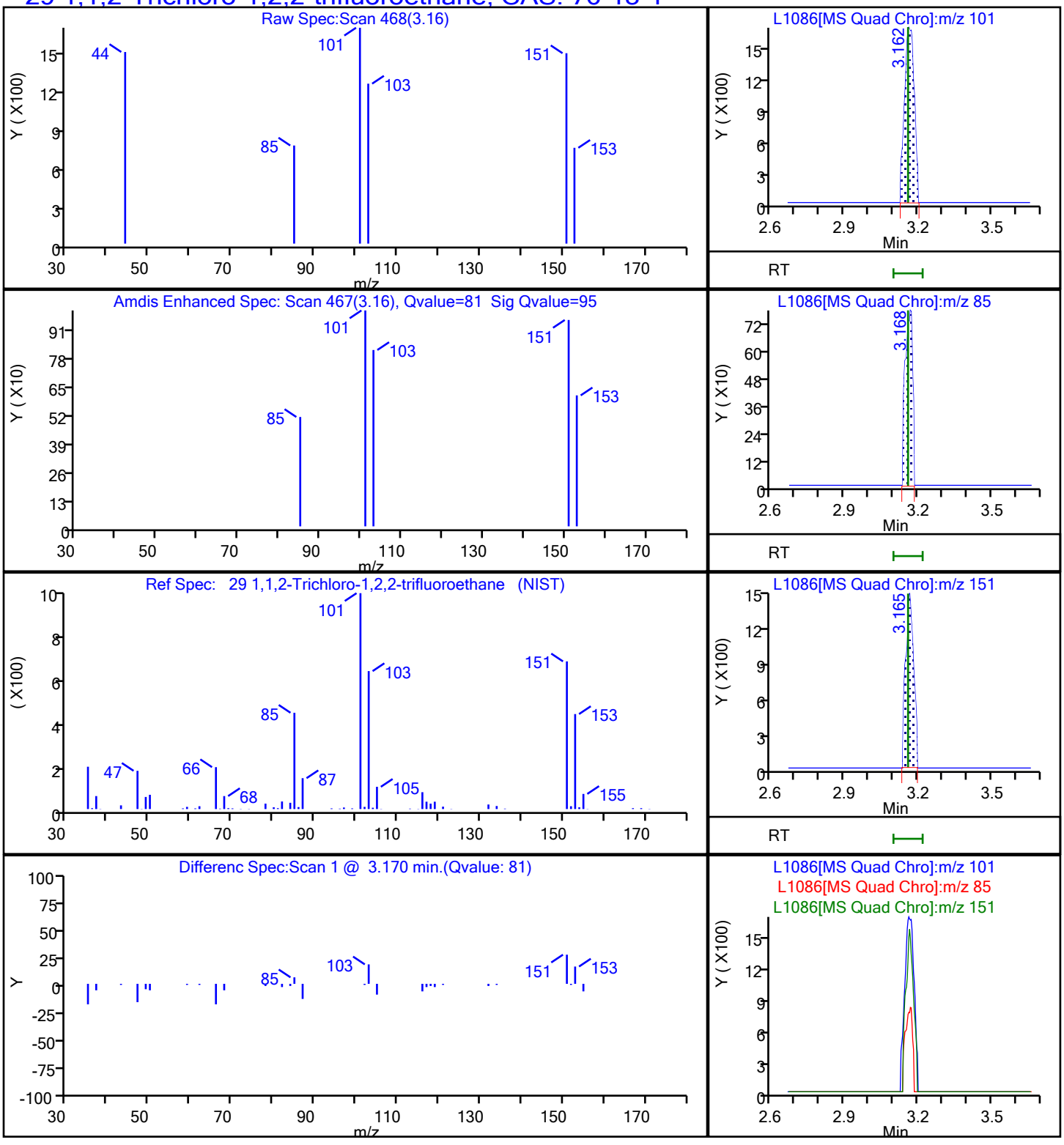
Report Date: 29-Sep-2023 09:34:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D

Injection Date:	29-Sep-2023 06:31:36	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-6	Lab Sample ID:	480-213168-6		
Client ID:	GW-M-25D-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	40
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

29 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

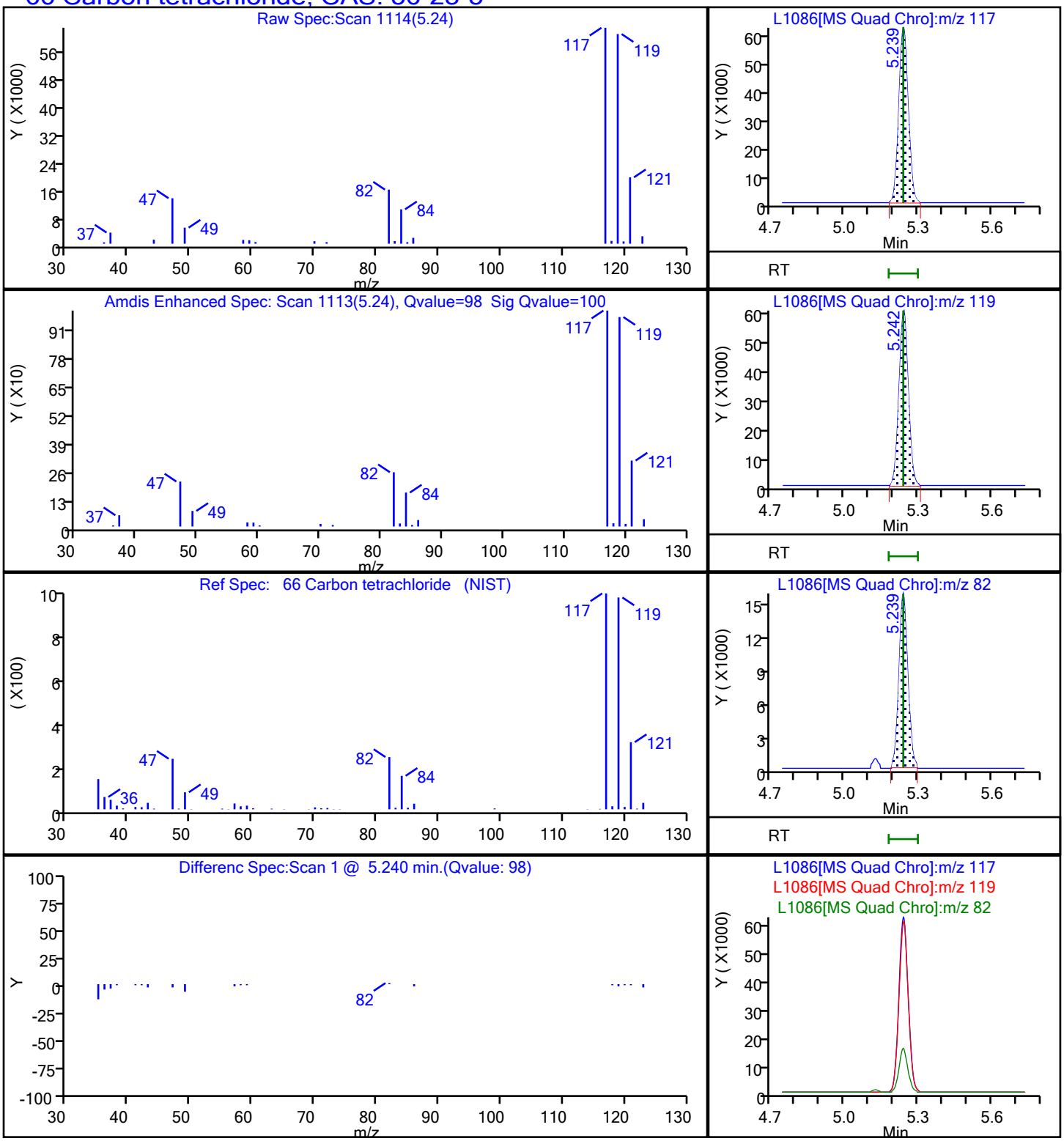


10/13/2023
10:08 AM

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D
Injection Date: 29-Sep-2023 06:31:36 Instrument ID: HP5977L
Lims ID: 480-213168-A-6 Lab Sample ID: 480-213168-6
Client ID: GW-M-25D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

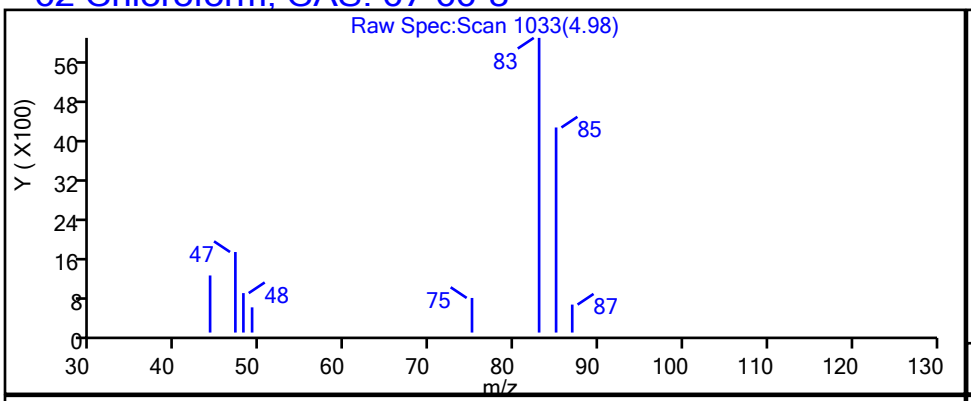
66 Carbon tetrachloride, CAS: 56-23-5

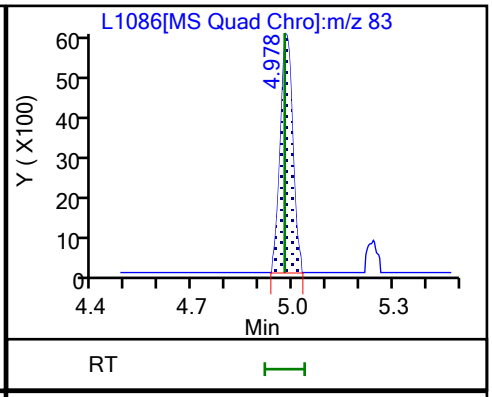


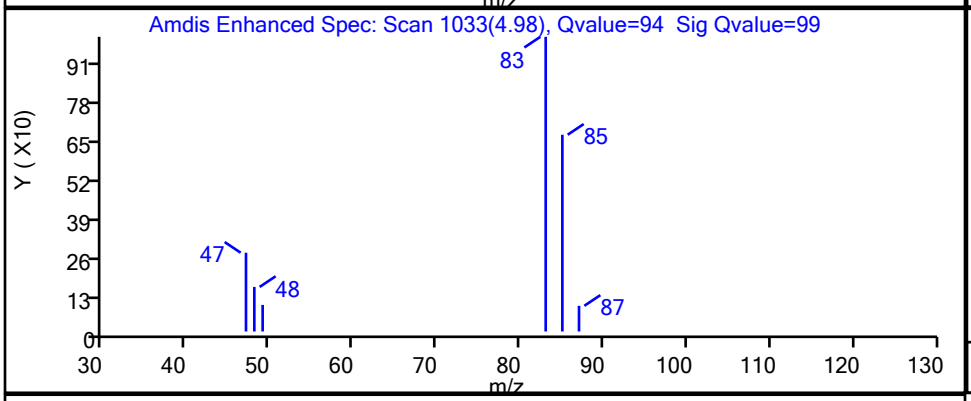
Eurofins Buffalo

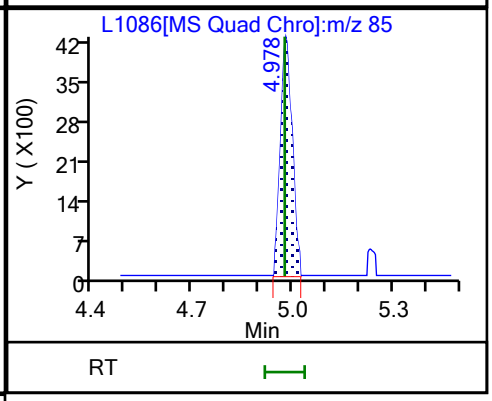
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D
Injection Date: 29-Sep-2023 06:31:36 Instrument ID: HP5977L
Lims ID: 480-213168-A-6 Lab Sample ID: 480-213168-6
Client ID: GW-M-25D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

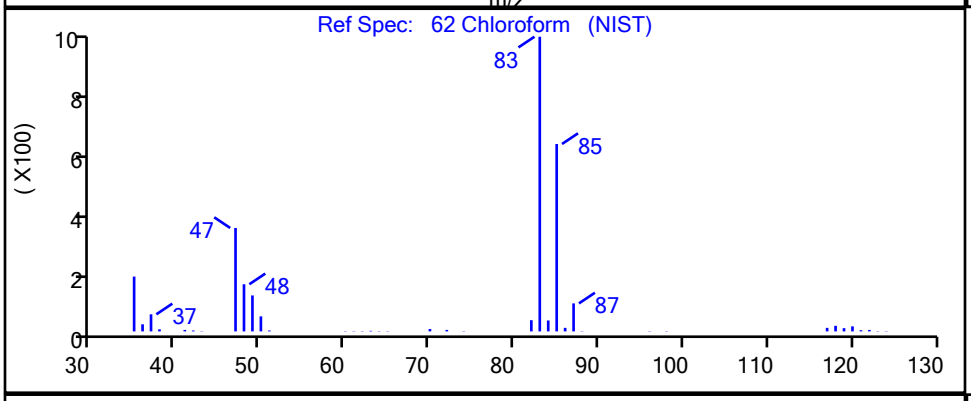
62 Chloroform, CAS: 67-66-3

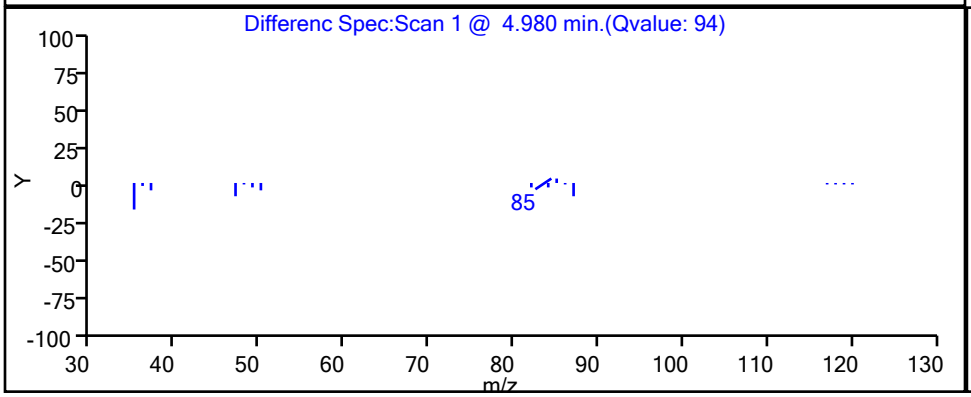


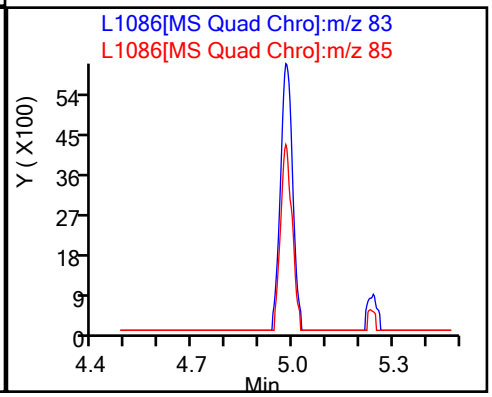












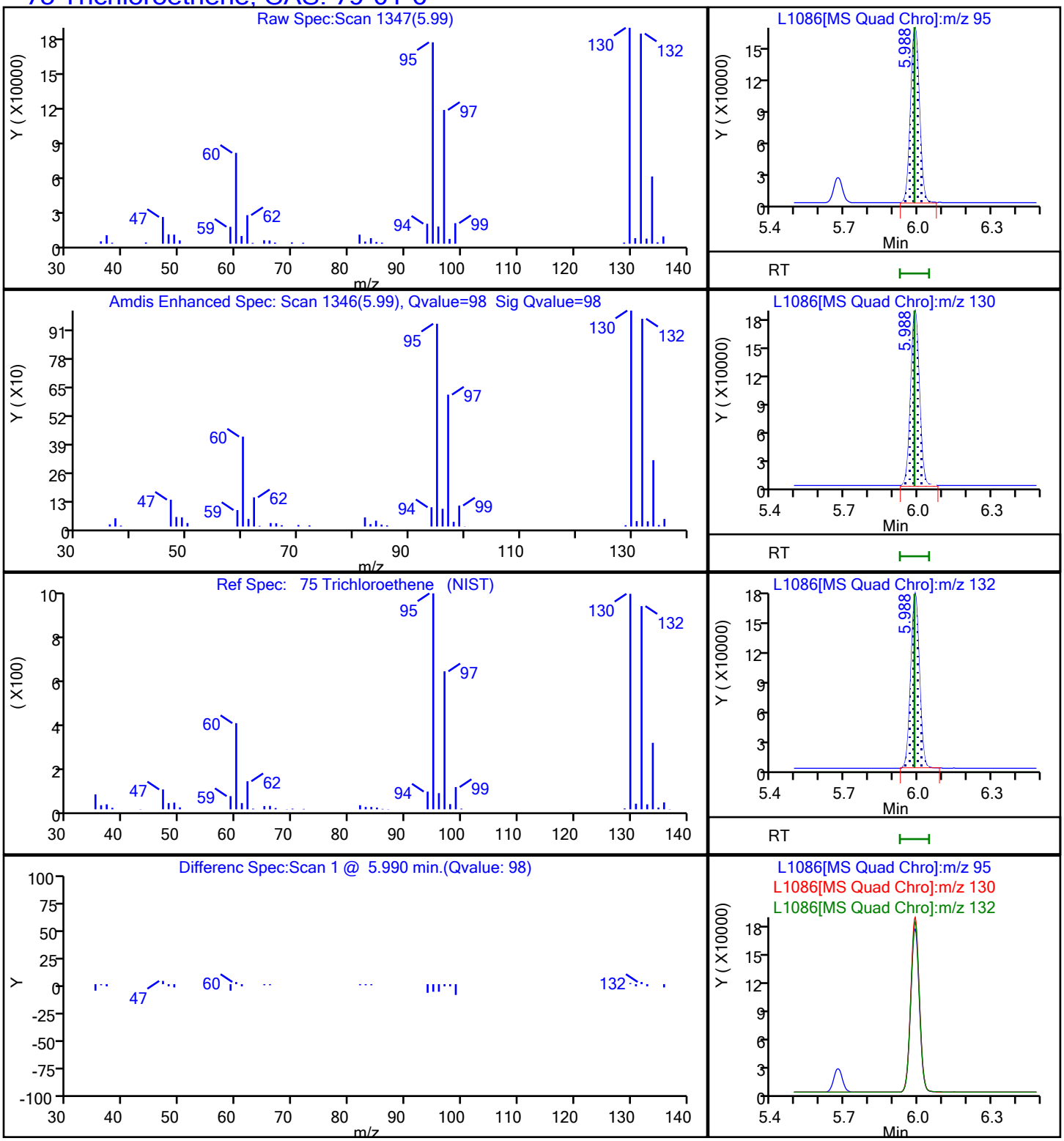
Report Date: 29-Sep-2023 09:34:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D

Injection Date:	29-Sep-2023 06:31:36	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-6	Lab Sample ID:	480-213168-6		
Client ID:	GW-M-25D-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	40
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

75 Trichloroethene, CAS: 79-01-6



10/13/2023
10:08 AM

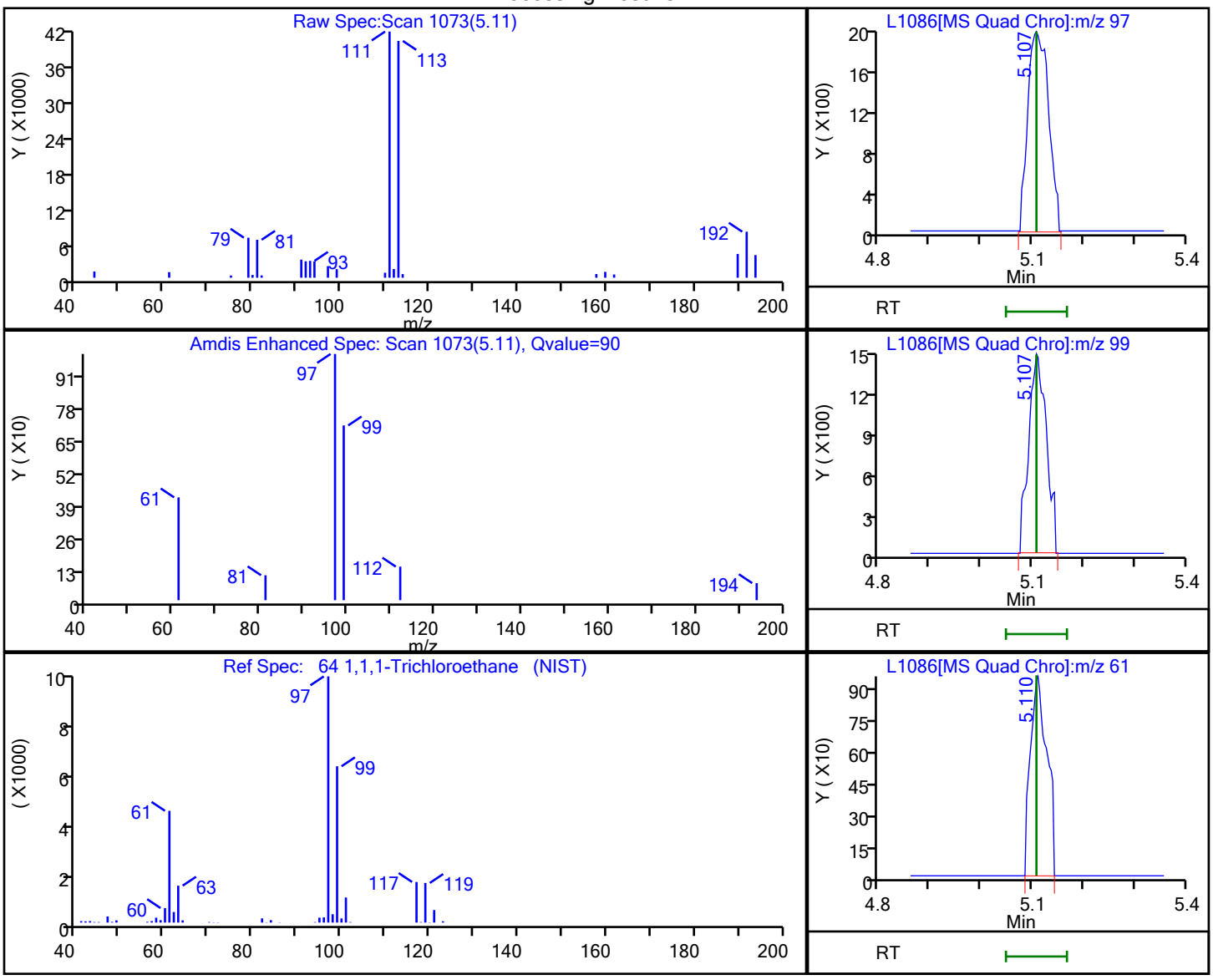
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D
Injection Date: 29-Sep-2023 06:31:36 Instrument ID: HP5977L
Lims ID: 480-213168-A-6 Lab Sample ID: 480-213168-6
Client ID: GW-M-25D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

64 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
5.11	97.00	5499	0.508005
5.11	99.00	3459	
5.11	61.00	2150	

Reviewer: R3QB, 29-Sep-2023 09:34:19 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

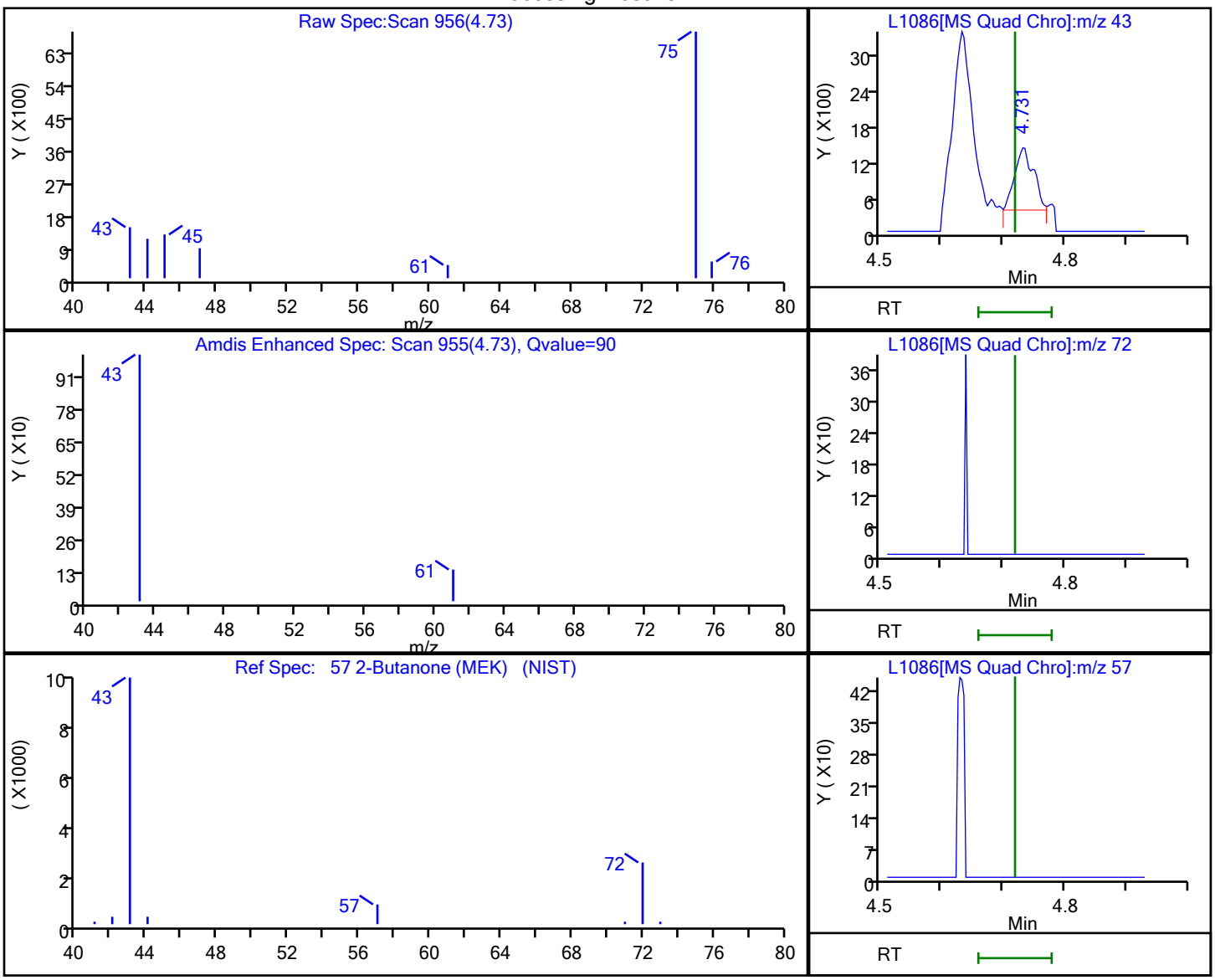
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D				
Injection Date:	29-Sep-2023 06:31:36	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-6	Lab Sample ID:	480-213168-6		
Client ID:	GW-M-25D-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	40
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	2207	0.345246
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 29-Sep-2023 09:34:15 -04:00:00 (UTC)

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

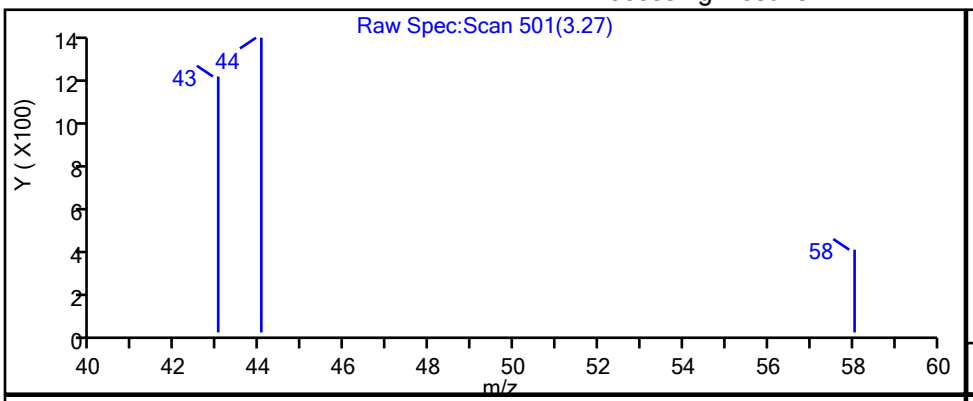
User Disabled Compound Report

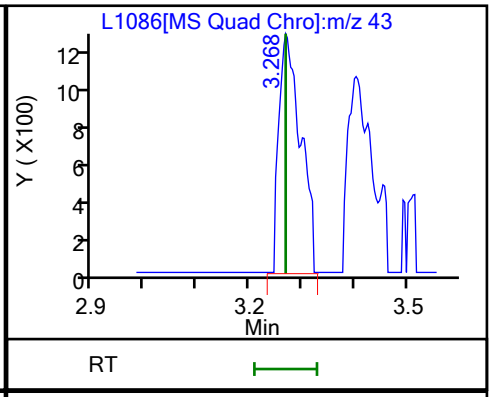
Eurofins Buffalo

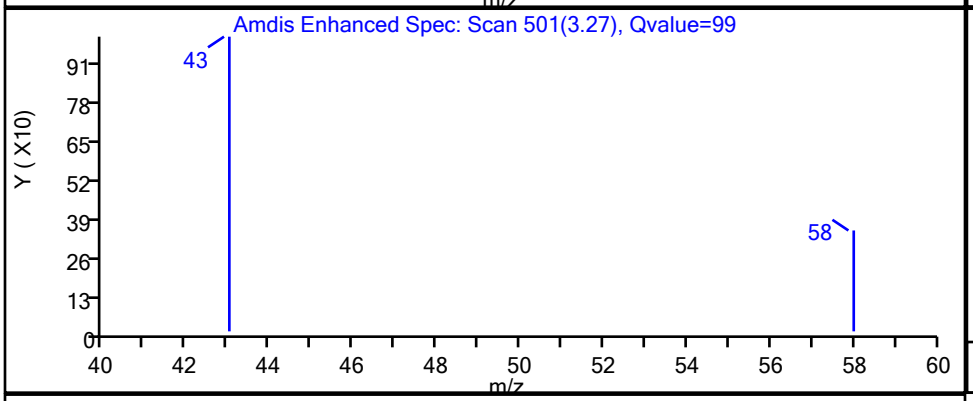
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1086.D
Injection Date: 29-Sep-2023 06:31:36 Instrument ID: HP5977L
Lims ID: 480-213168-A-6 Lab Sample ID: 480-213168-6
Client ID: GW-M-25D-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

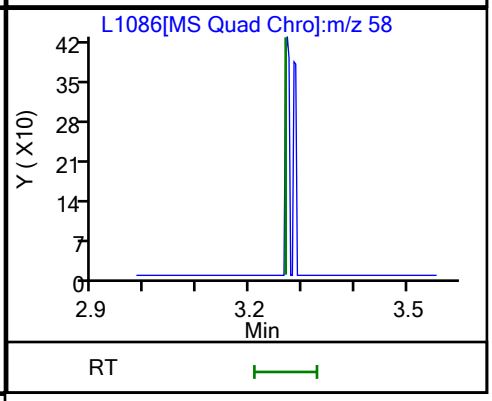
31 Acetone, CAS: 67-64-1

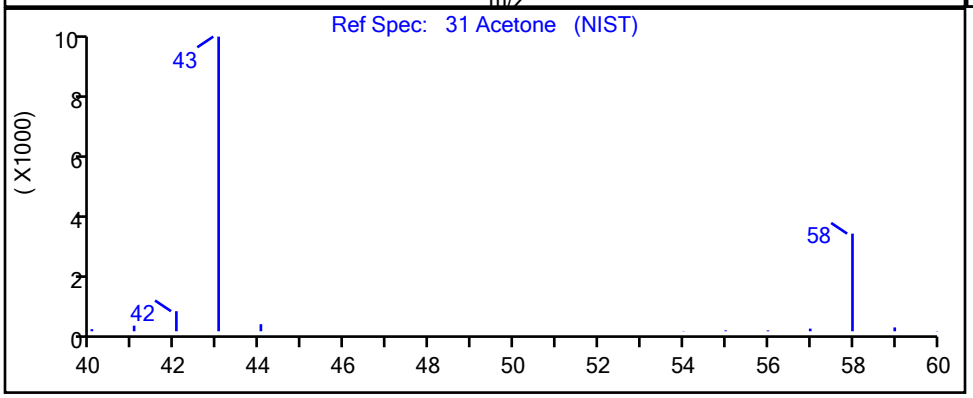
Processing Results











RT	Mass	Response	Amount
3.27	43.00	3466	1.066464
3.27	58.00	0	

Reviewer: R3QB, 29-Sep-2023 09:34:12 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-25S-09272023 | Lab Sample ID: 480-213168-7

Matrix: Water | Lab File ID: L1087.D

Analysis Method: 8260C | Date Collected: 09/27/2023 15:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 06:56

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.85	J	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U *+	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	11		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	0.59	J	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-25S-09272023 | Lab Sample ID: 480-213168-7

Matrix: Water | Lab File ID: L1087.D

Analysis Method: 8260C | Date Collected: 09/27/2023 15:20

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 06:56

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	26		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1087.D
Lims ID: 480-213168-A-7
Client ID: GW-M-25S-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 06:56:16 ALS Bottle#: 0 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-7
Misc. Info.: 480-0114025-041
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:34:52 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:34:52

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	132409	25.0	
*	2 Chlorobenzene-d5	117	8.547	8.544	0.003	86	525059	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.952	10.953	-0.001	96	276103	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.126	5.123	0.003	93	170038	25.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	216193	25.7	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	94	697425	25.8	
$	7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	98	197588	26.1	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.053				ND	
	18 Bromomethane	94		2.413				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.721				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.168	3.159	0.009	91	6440	0.8521	
	30 1,1-Dichloroethene	96		3.191				ND	
	31 Acetone	43		3.268				ND	U
	35 Carbon disulfide	76		3.416				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.651				ND	
	41 Methyl tert-butyl ether	73		3.808				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.210				ND	
	58 cis-1,2-Dichloroethene	96		4.705				ND	
	57 2-Butanone (MEK)	43		4.718				ND	7
	62 Chloroform	83	4.985	4.975	0.010	89	8635	0.5935	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117	5.239	5.239	0.000	98	98500	11.2	
	70 Benzene	78		5.432				ND	
	72 1,2-Dichloroethane	62		5.487				ND	
	75 Trichloroethene	95	5.988	5.985	0.003	97	212786	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

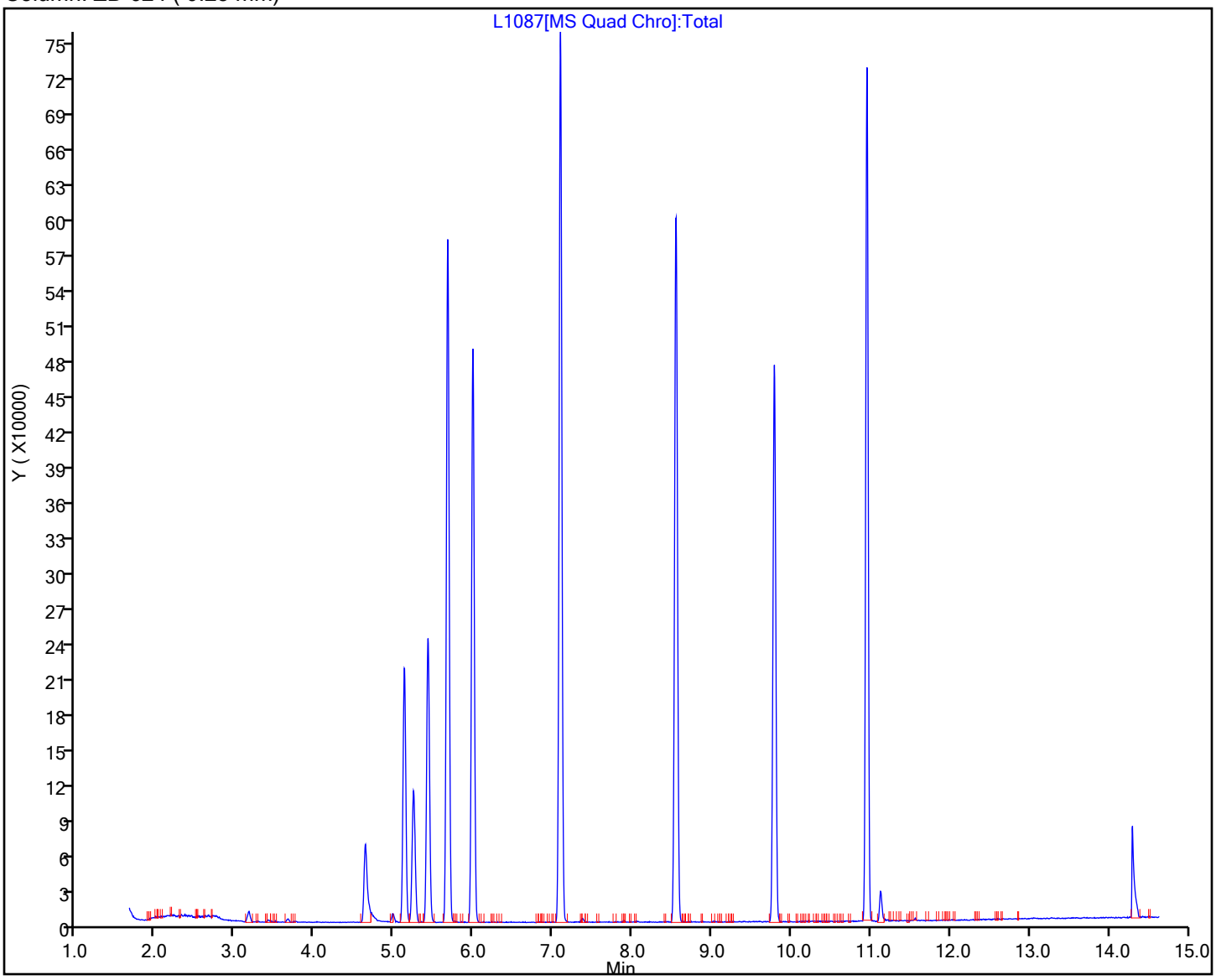
Report Date: 29-Sep-2023 09:34:52 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1087.D

Injection Date:	29-Sep-2023 06:56:16	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-7	Lab Sample ID:	480-213168-7		
Client ID:	GW-M-25S-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1087.D
Lims ID: 480-213168-A-7
Client ID: GW-M-25S-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 06:56:16 ALS Bottle#: 0 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-7
Misc. Info.: 480-0114025-041
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:34:52 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

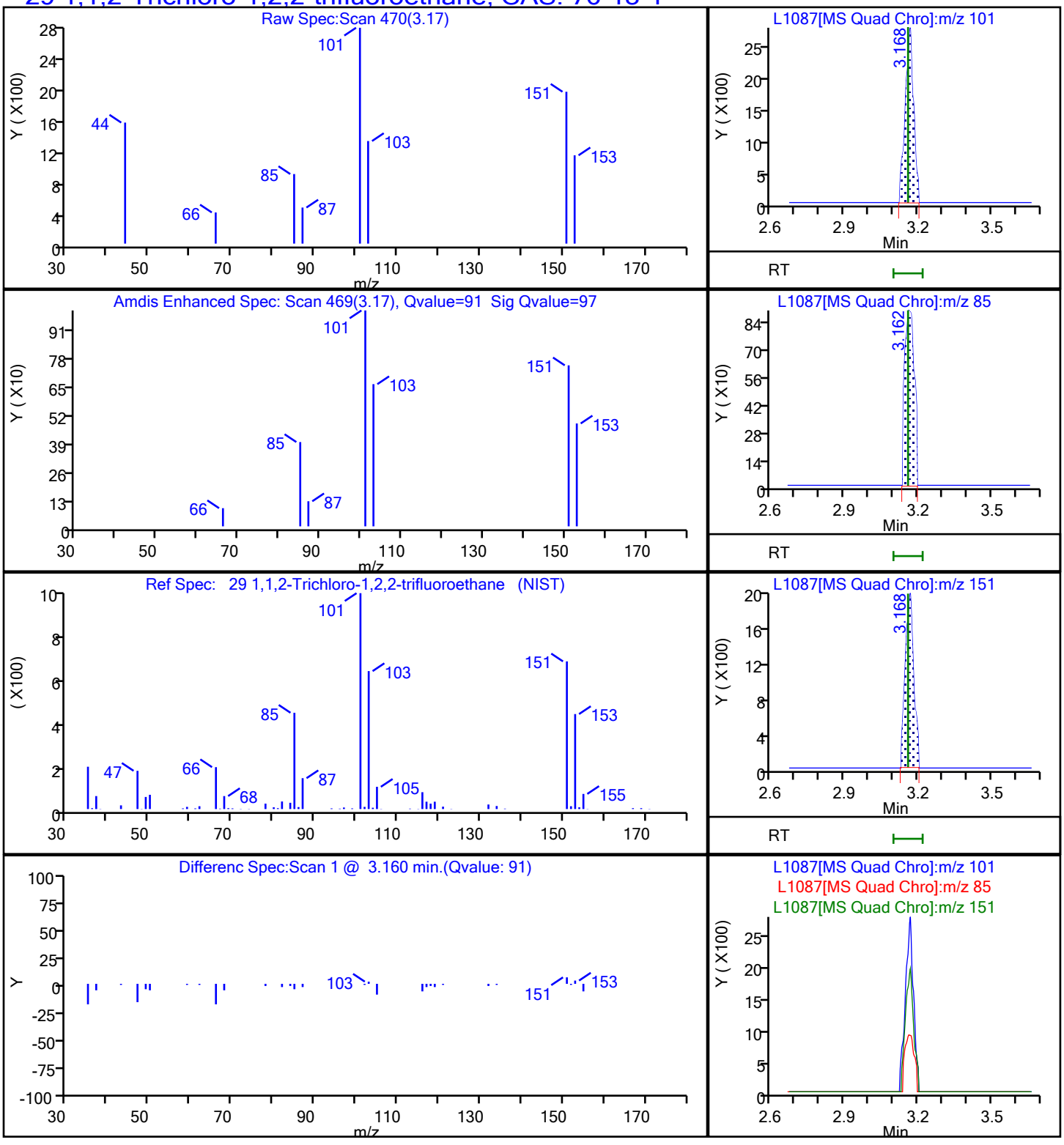
First Level Reviewer: R3QB Date: 29-Sep-2023 09:34:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.0	99.90
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.7	102.80
$ 6 Toluene-d8 (Surr)	25.0	25.8	103.19
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.1	104.55

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1087.D
Injection Date: 29-Sep-2023 06:56:16 Instrument ID: HP5977L
Lims ID: 480-213168-A-7 Lab Sample ID: 480-213168-7
Client ID: GW-M-25S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

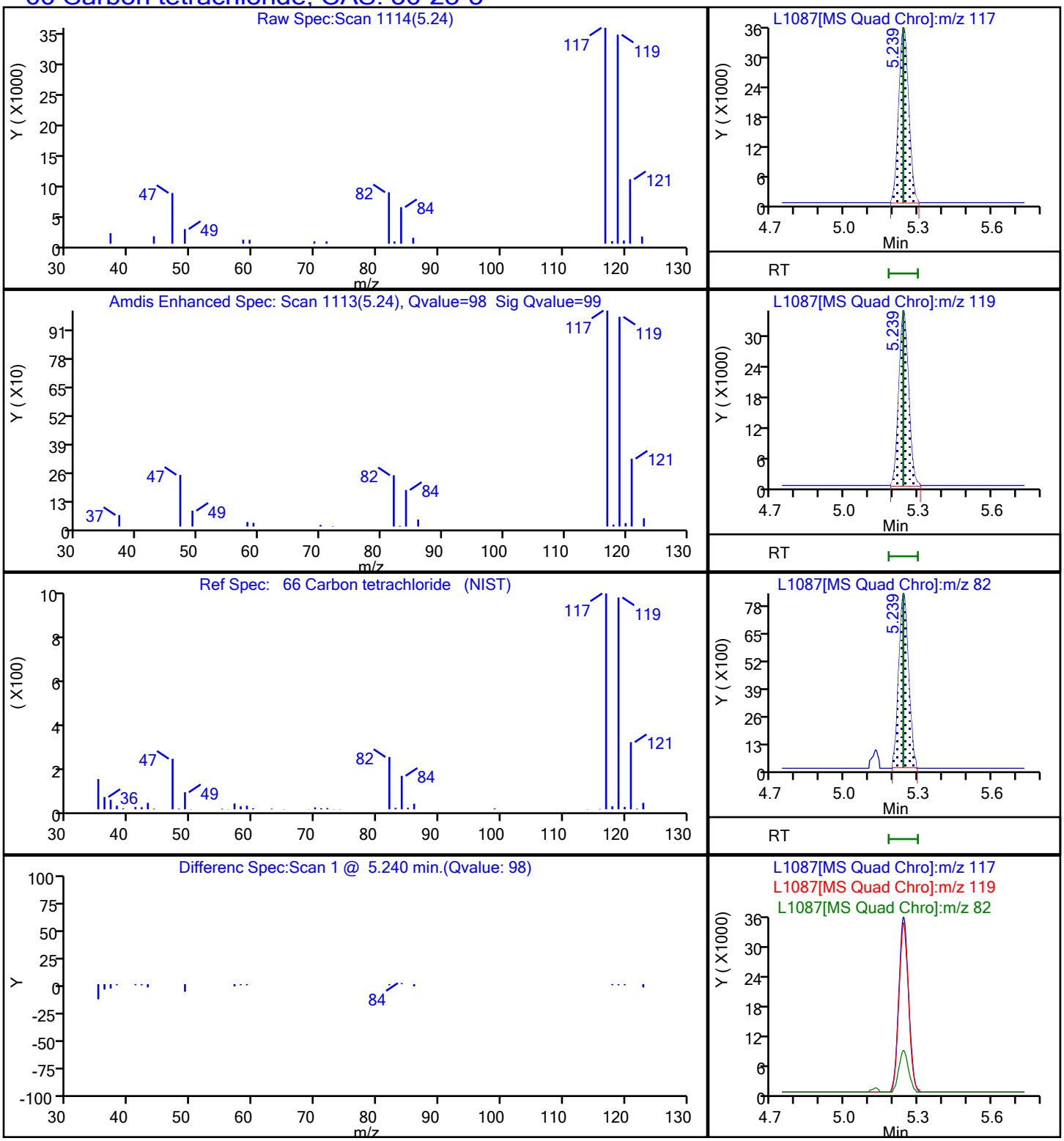
29 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1087.D
Injection Date: 29-Sep-2023 06:56:16 Instrument ID: HP5977L
Lims ID: 480-213168-A-7 Lab Sample ID: 480-213168-7
Client ID: GW-M-25S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

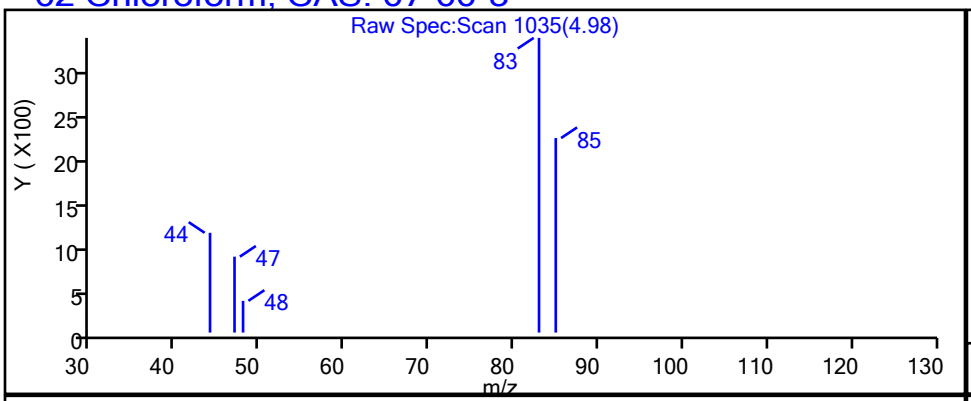
66 Carbon tetrachloride, CAS: 56-23-5

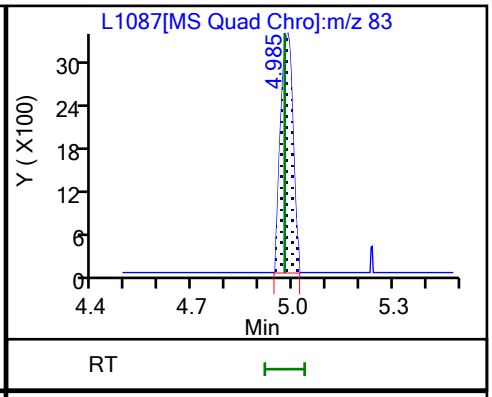


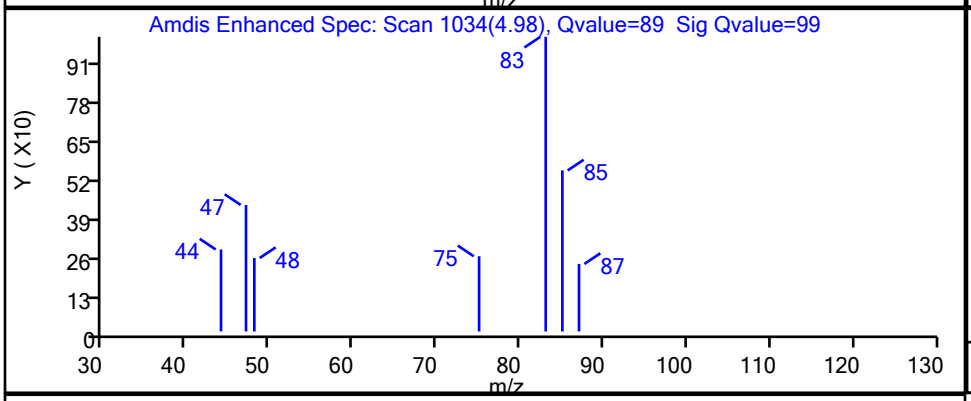
Eurofins Buffalo

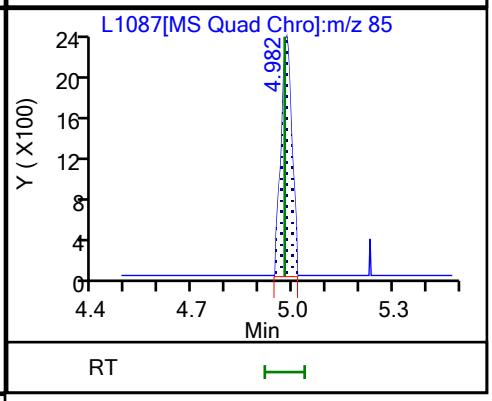
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1087.D
Injection Date: 29-Sep-2023 06:56:16 Instrument ID: HP5977L
Lims ID: 480-213168-A-7 Lab Sample ID: 480-213168-7
Client ID: GW-M-25S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

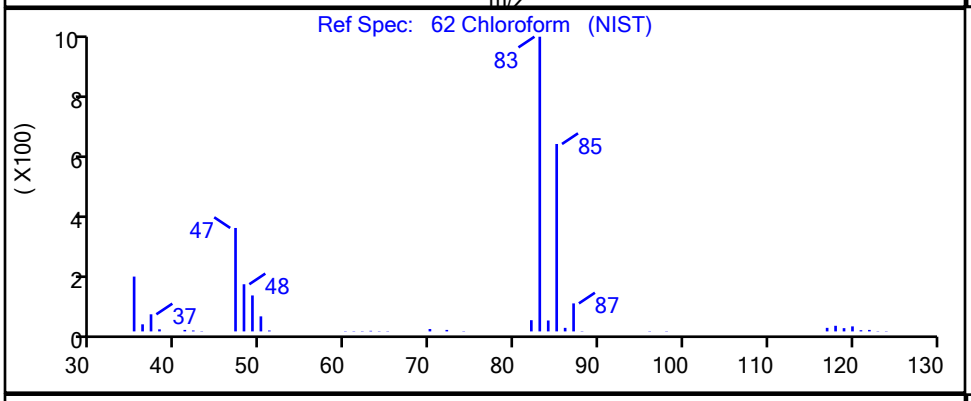
62 Chloroform, CAS: 67-66-3

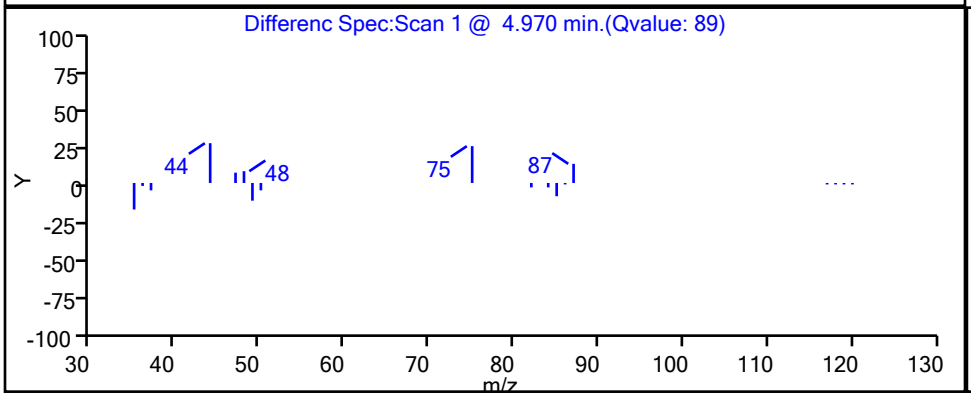


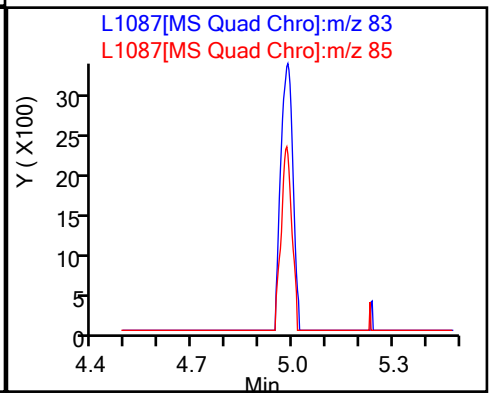












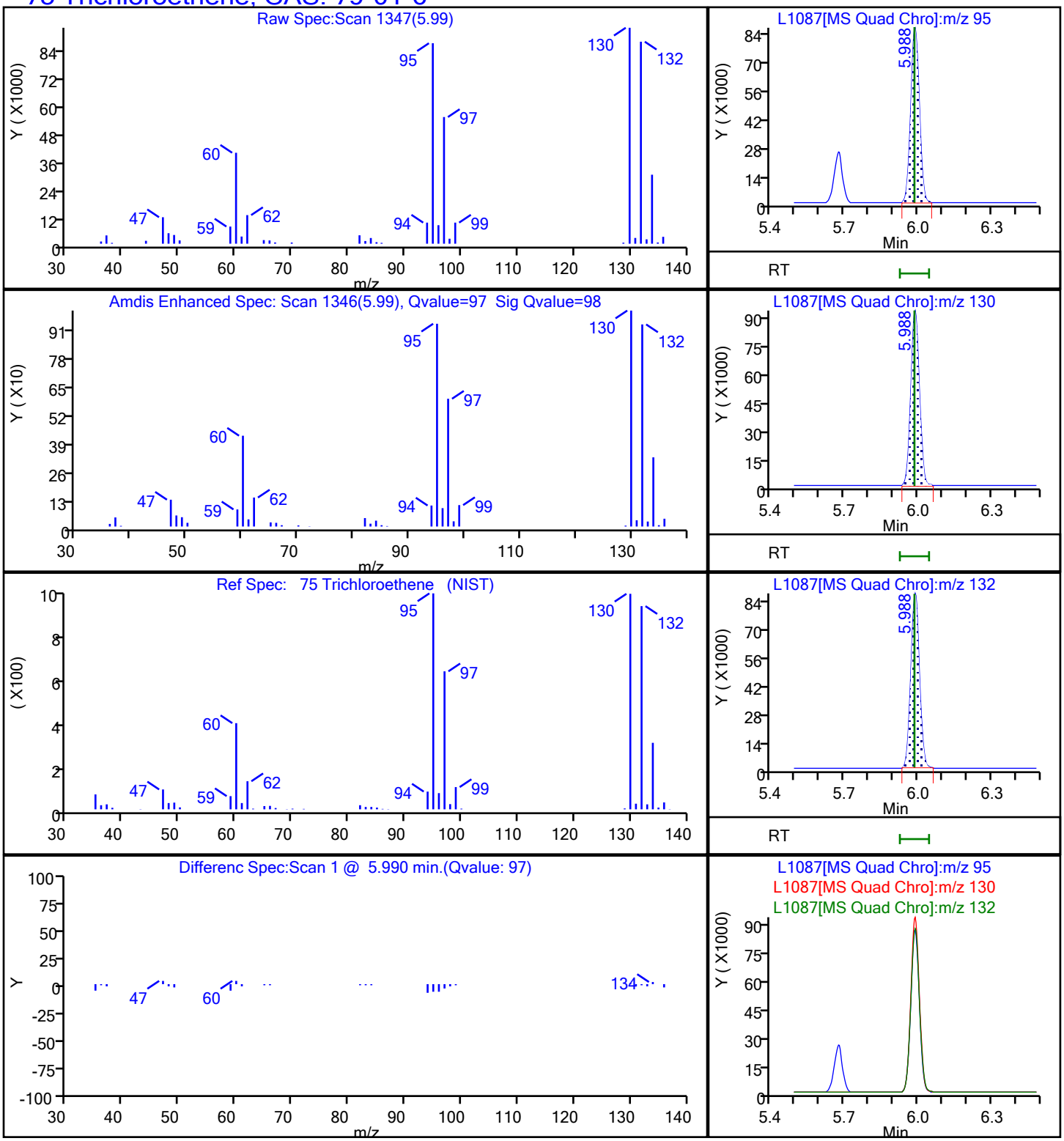
Report Date: 29-Sep-2023 09:34:52 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1087.D

Injection Date:	29-Sep-2023 06:56:16	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-7	Lab Sample ID:	480-213168-7		
Client ID:	GW-M-25S-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

75 Trichloroethene, CAS: 79-01-6



10/13/2023
10:08 AM

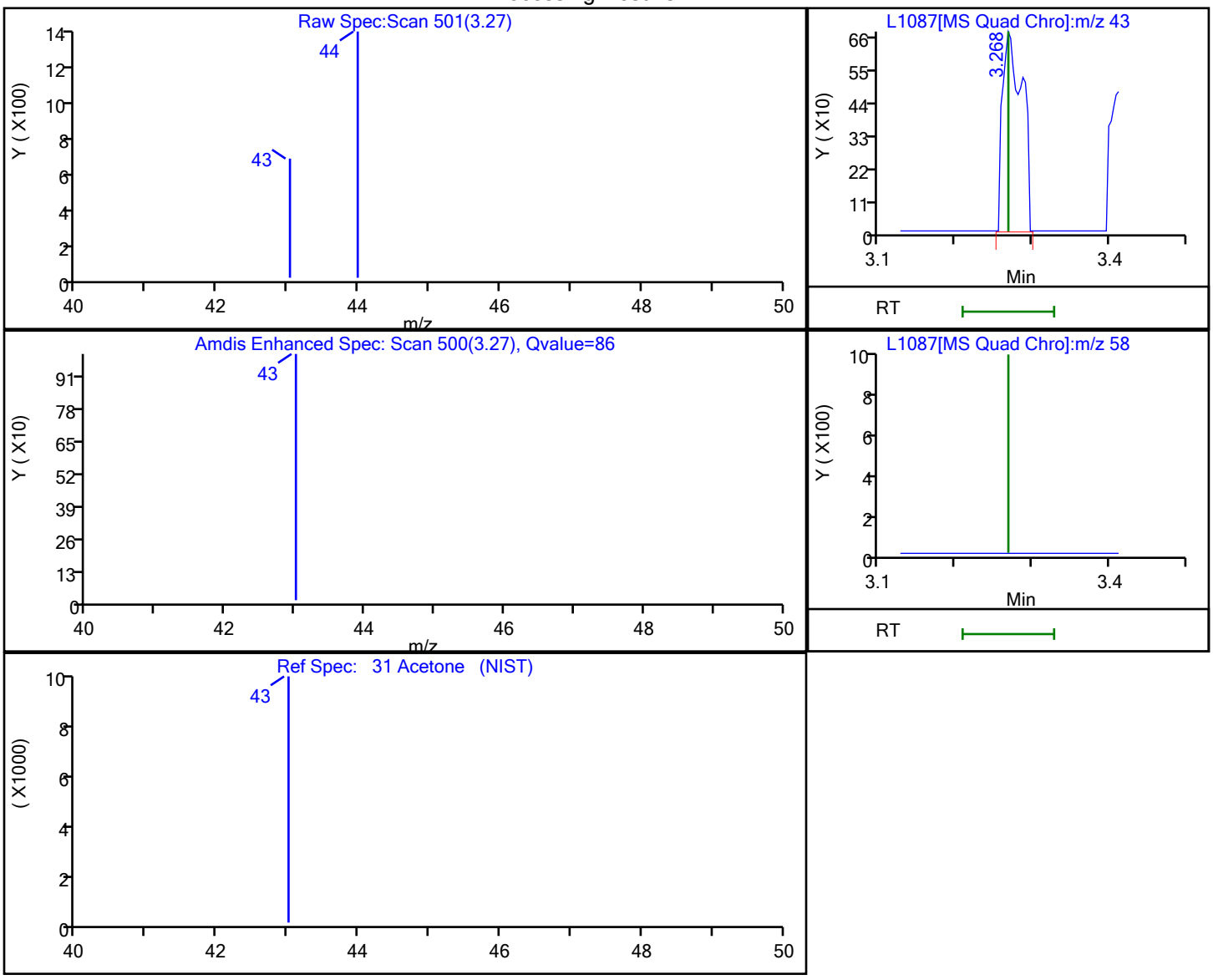
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1087.D
Injection Date: 29-Sep-2023 06:56:16 Instrument ID: HP5977L
Lims ID: 480-213168-A-7 Lab Sample ID: 480-213168-7
Client ID: GW-M-25S-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

31 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.27	43.00	1202	0.367316
3.27	58.00	0	

Reviewer: R3QB, 29-Sep-2023 09:34:38 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-1-09272023 | Lab Sample ID: 480-213168-8

Matrix: Water | Lab File ID: L1088.D

Analysis Method: 8260C | Date Collected: 09/27/2023 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 07:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-1-09272023 | Lab Sample ID: 480-213168-8

Matrix: Water | Lab File ID: L1088.D

Analysis Method: 8260C | Date Collected: 09/27/2023 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 07:20

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1088.D
Lims ID: 480-213168-A-8
Client ID: GW-M-1-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 07:20:52 ALS Bottle#: 0 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-8
Misc. Info.: 480-0114025-042
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:35:10 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:35:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	130124	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.544	0.004	86	521546	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	285398	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.126	5.123	0.003	93	170933	25.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	209173	25.3	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	659768	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	97	173045	23.0	
10 Dichlorodifluoromethane	85		1.721				ND	
13 Chloromethane	50		1.940				ND	
14 Vinyl chloride	62		2.053				ND	
18 Bromomethane	94		2.413				ND	
19 Chloroethane	64		2.483				ND	
21 Trichlorofluoromethane	101		2.721				ND	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
30 1,1-Dichloroethene	96		3.191				ND	
31 Acetone	43		3.268				ND	U
35 Carbon disulfide	76		3.416				ND	
38 Methyl acetate	43		3.525				ND	
39 Methylene Chloride	84		3.651				ND	
41 Methyl tert-butyl ether	73		3.808				ND	
42 trans-1,2-Dichloroethene	96		3.837				ND	
50 1,1-Dichloroethane	63		4.210				ND	
58 cis-1,2-Dichloroethene	96		4.705				ND	
57 2-Butanone (MEK)	43		4.718				ND	U
62 Chloroform	83		4.975				ND	
64 1,1,1-Trichloroethane	97		5.107				ND	
65 Cyclohexane	56		5.126				ND	
66 Carbon tetrachloride	117		5.239				ND	
70 Benzene	78		5.432				ND	
72 1,2-Dichloroethane	62		5.487				ND	
75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

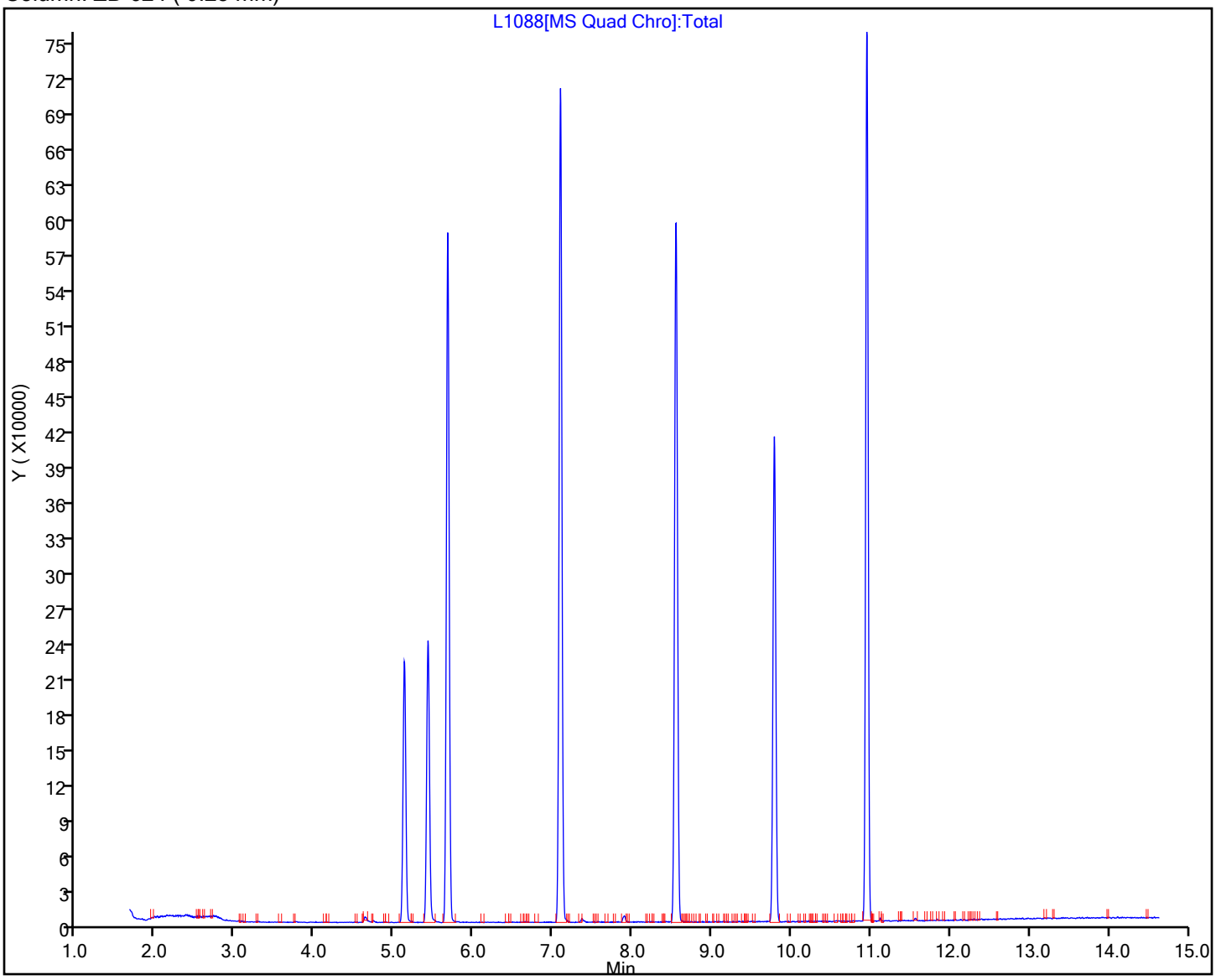
Report Date: 29-Sep-2023 09:35:10 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1088.D

Injection Date:	29-Sep-2023 07:20:52	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-8	Lab Sample ID:	480-213168-8		
Client ID:	GW-M-1-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	42
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1088.D
Lims ID: 480-213168-A-8
Client ID: GW-M-1-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 07:20:52 ALS Bottle#: 0 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-8
Misc. Info.: 480-0114025-042
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:35:10 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:35:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.5	102.19
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.3	101.20
$ 6 Toluene-d8 (Surr)	25.0	24.6	98.28
$ 7 4-Bromofluorobenzene (Surr)	25.0	23.0	92.18

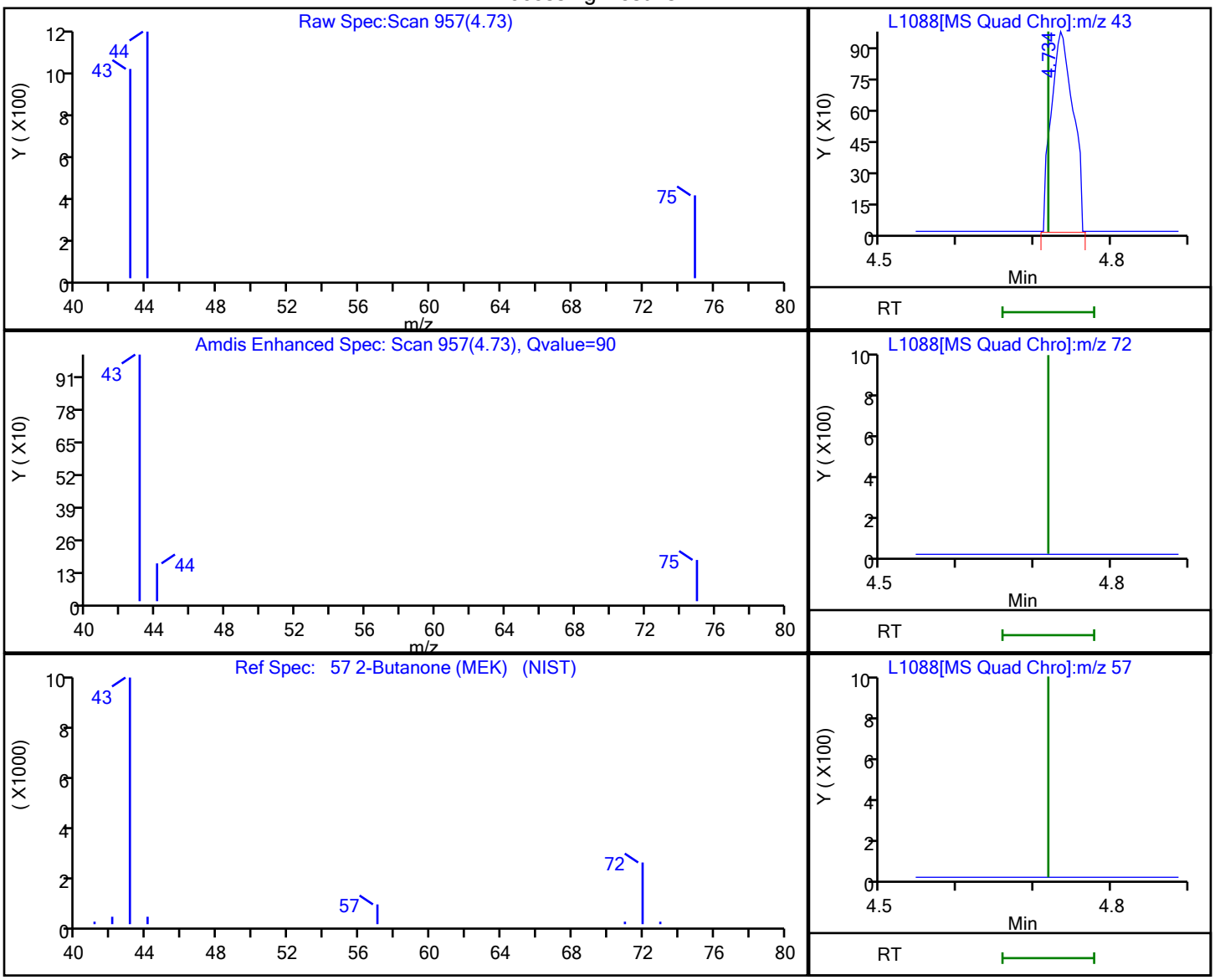
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1088.D				
Injection Date:	29-Sep-2023 07:20:52	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-8	Lab Sample ID:	480-213168-8		
Client ID:	GW-M-1-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	42
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
4.73	43.00	1935	0.305904
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 29-Sep-2023 09:35:01 -04:00:00 (UTC)

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

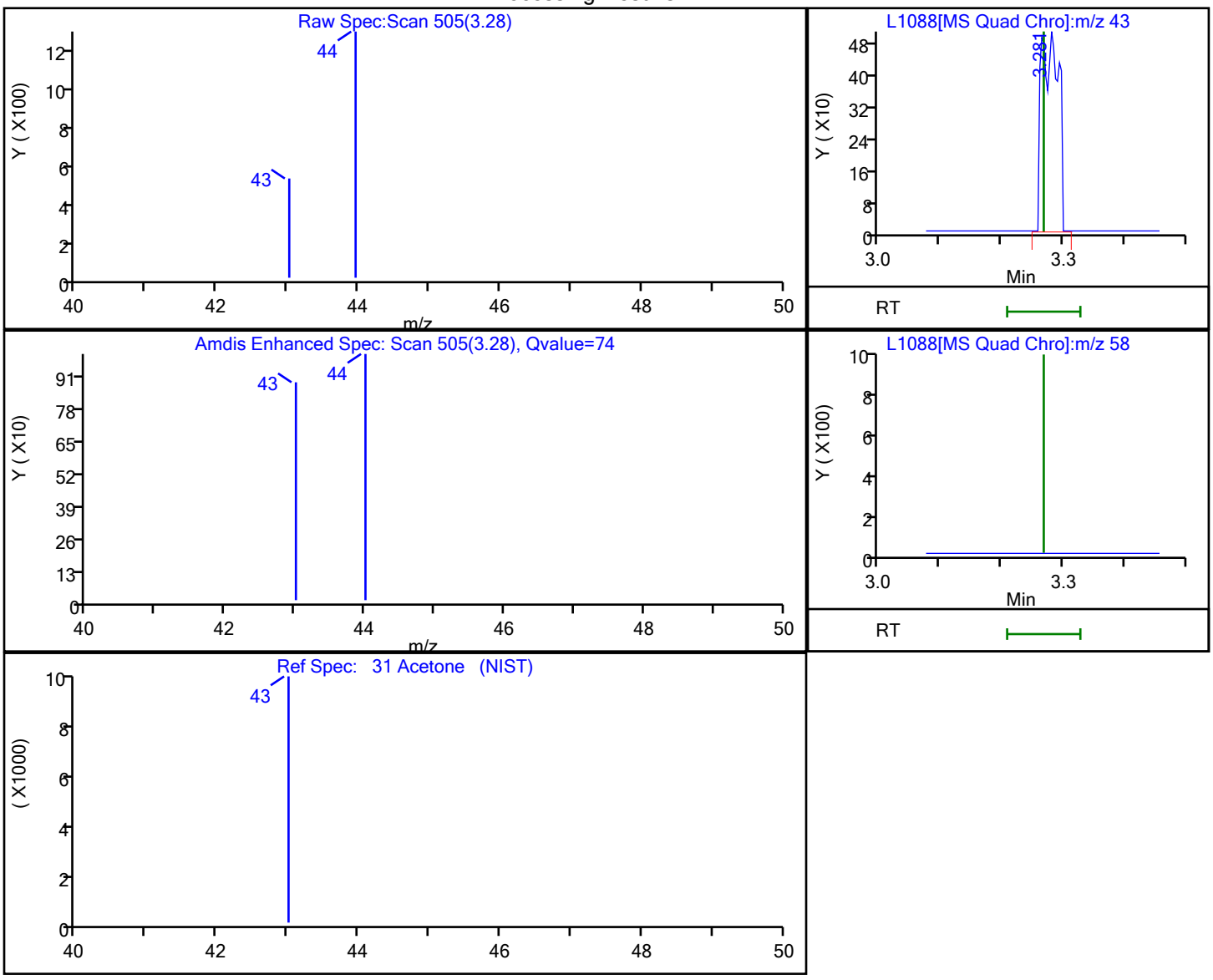
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1088.D
Injection Date: 29-Sep-2023 07:20:52 Instrument ID: HP5977L
Lims ID: 480-213168-A-8 Lab Sample ID: 480-213168-8
Client ID: GW-M-1-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

31 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.28	43.00	988	0.307222
3.27	58.00	0	

Reviewer: R3QB, 29-Sep-2023 09:34:58 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-28D-0929023 | Lab Sample ID: 480-213168-9

Matrix: Water | Lab File ID: L1089.D

Analysis Method: 8260C | Date Collected: 09/27/2023 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 07:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U *+	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.6		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-28D-0929023 | Lab Sample ID: 480-213168-9

Matrix: Water | Lab File ID: L1089.D

Analysis Method: 8260C | Date Collected: 09/27/2023 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 07:45

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	0.63	J	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1089.D
Lims ID: 480-213168-A-9
Client ID: GW-M-28D-0929023
Sample Type: Client
Inject. Date: 29-Sep-2023 07:45:02 ALS Bottle#: 0 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-9
Misc. Info.: 480-0114025-043
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:35:34 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:35:34

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	124058	25.0	
*	2 Chlorobenzene-d5	117	8.547	8.544	0.003	86	459082	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	253039	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	168676	26.4	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	203324	25.8	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	94	626423	26.5	
$	7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	98	174946	26.5	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.053				ND	
	18 Bromomethane	94		2.413				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.721				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.191				ND	
	31 Acetone	43		3.268				ND	U
	35 Carbon disulfide	76		3.416				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.651				ND	
	41 Methyl tert-butyl ether	73		3.808				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.210				ND	
	58 cis-1,2-Dichloroethene	96		4.705				ND	
	57 2-Butanone (MEK)	43		4.718				ND	U
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117	5.236	5.239	-0.003	97	12827	1.56	
	70 Benzene	78		5.432				ND	
	72 1,2-Dichloroethane	62		5.487				ND	
	75 Trichloroethene	95	5.985	5.985	0.000	89	4859	0.6276	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

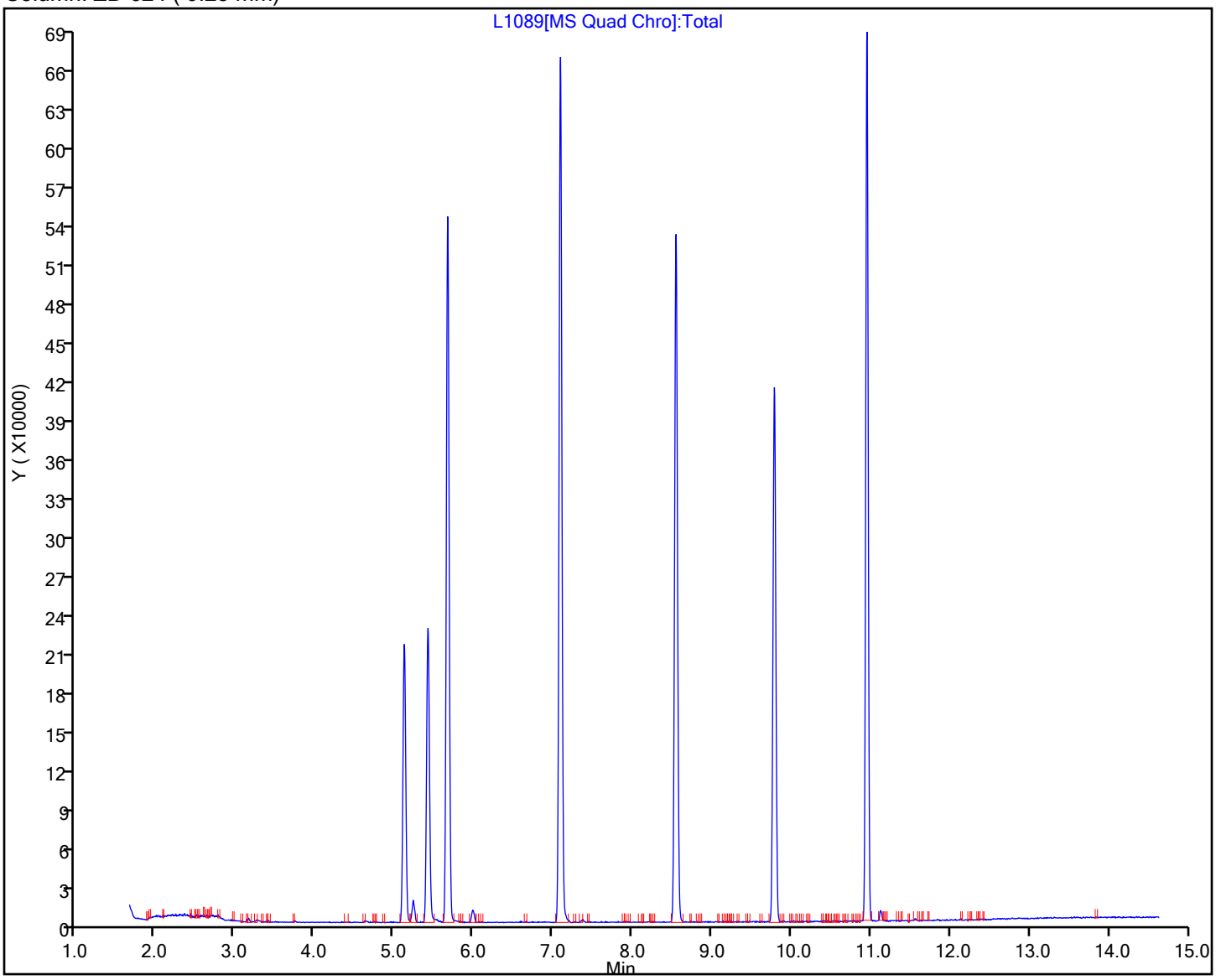
Report Date: 29-Sep-2023 09:35:34 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1089.D

Injection Date:	29-Sep-2023 07:45:02	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-9	Lab Sample ID:	480-213168-9		
Client ID:	GW-M-28D-0929023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	43
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1089.D
Lims ID: 480-213168-A-9
Client ID: GW-M-28D-0929023
Sample Type: Client
Inject. Date: 29-Sep-2023 07:45:02 ALS Bottle#: 0 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-9
Misc. Info.: 480-0114025-043
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:35:34 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

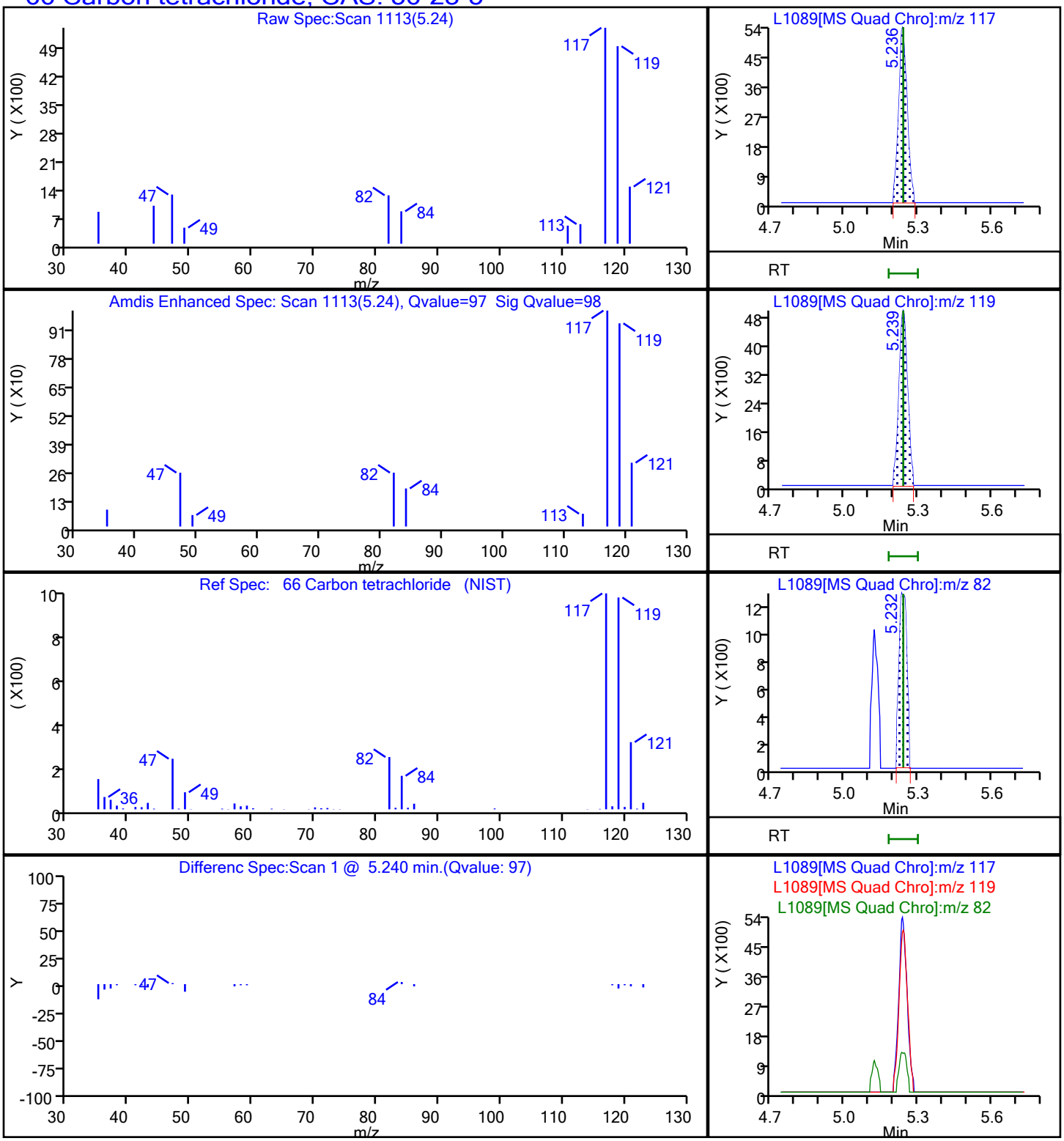
First Level Reviewer: R3QB Date: 29-Sep-2023 09:35:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.4	105.77
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.8	103.18
$ 6 Toluene-d8 (Surr)	25.0	26.5	106.01
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.5	105.88

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1089.D
Injection Date: 29-Sep-2023 07:45:02 Instrument ID: HP5977L
Lims ID: 480-213168-A-9 Lab Sample ID: 480-213168-9
Client ID: GW-M-28D-0929023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

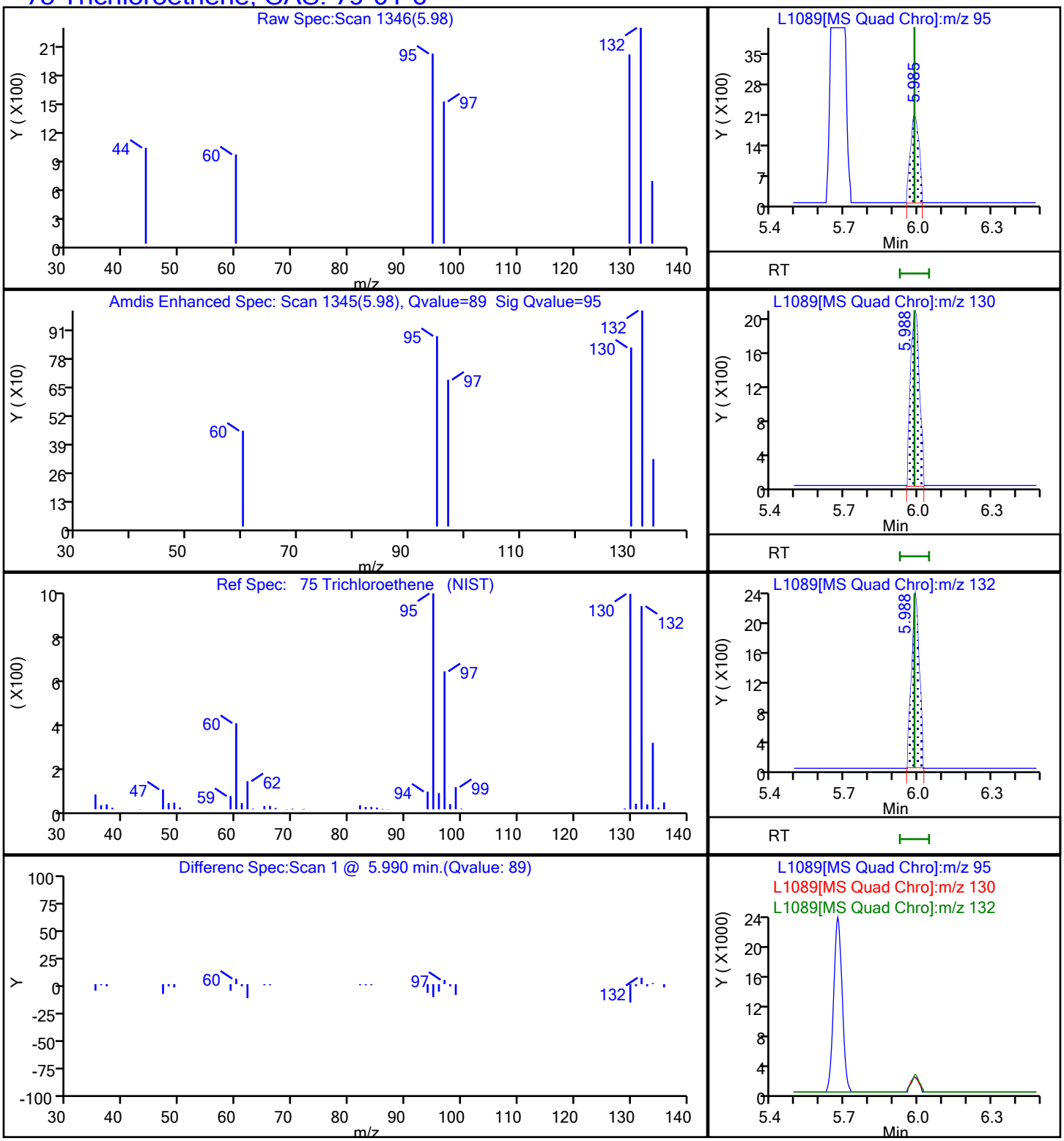
66 Carbon tetrachloride, CAS: 56-23-5



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1089.D
Injection Date: 29-Sep-2023 07:45:02 Instrument ID: HP5977L
Lims ID: 480-213168-A-9 Lab Sample ID: 480-213168-9
Client ID: GW-M-28D-0929023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

75 Trichloroethene, CAS: 79-01-6



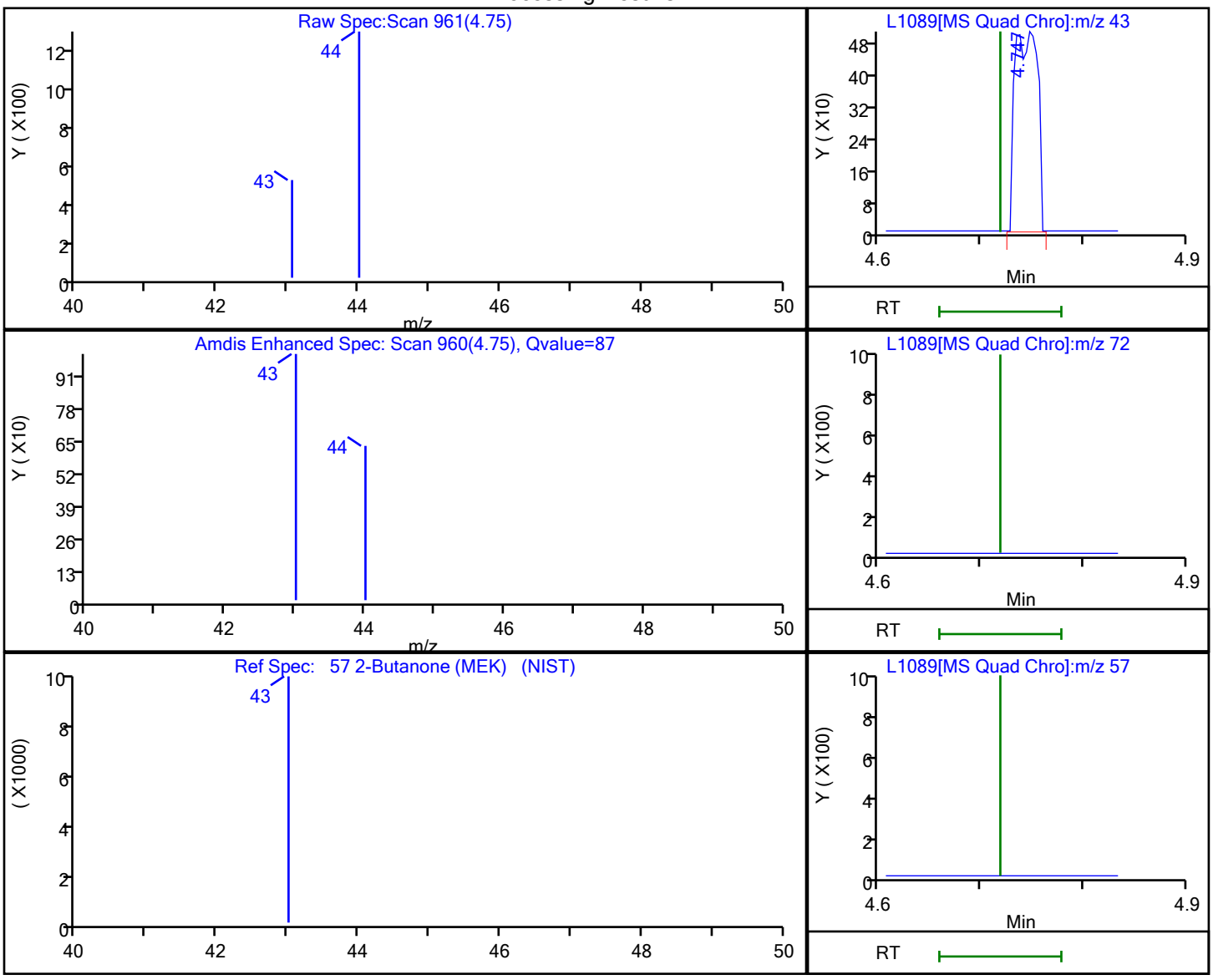
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1089.D				
Injection Date:	29-Sep-2023 07:45:02	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-9	Lab Sample ID:	480-213168-9		
Client ID:	GW-M-28D-0929023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	43
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
4.75	43.00	787	0.130500
4.72	72.00	0	
4.72	57.00	0	

Reviewer: R3QB, 29-Sep-2023 09:35:18 -04:00:00 (UTC)

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

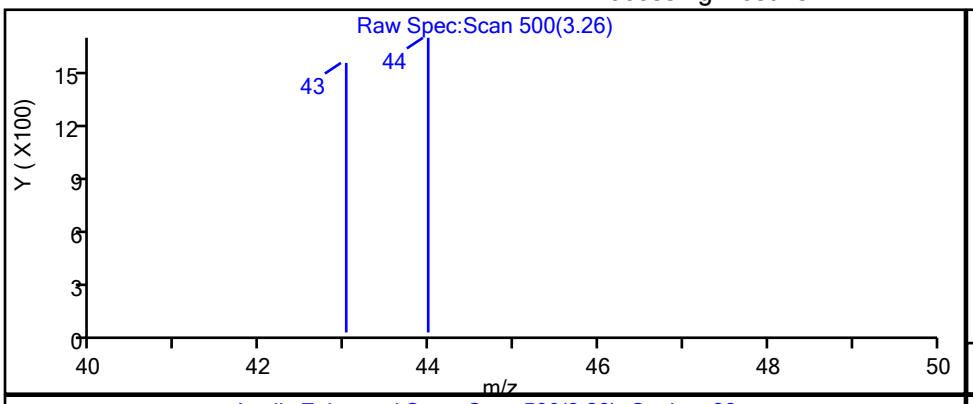
User Disabled Compound Report

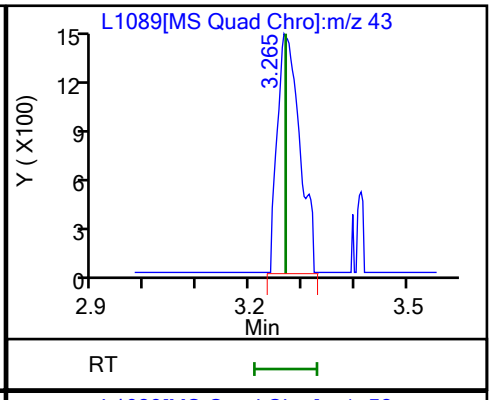
Eurofins Buffalo

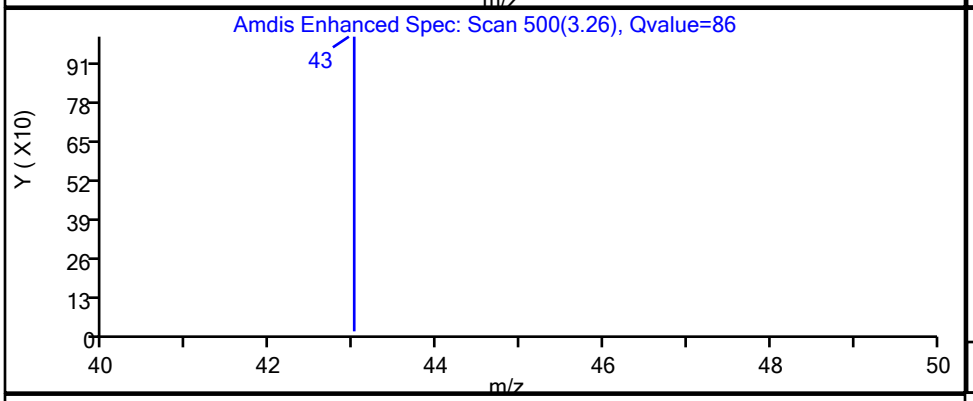
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1089.D				
Injection Date:	29-Sep-2023 07:45:02	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-9	Lab Sample ID:	480-213168-9		
Client ID:	GW-M-28D-0929023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	43
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

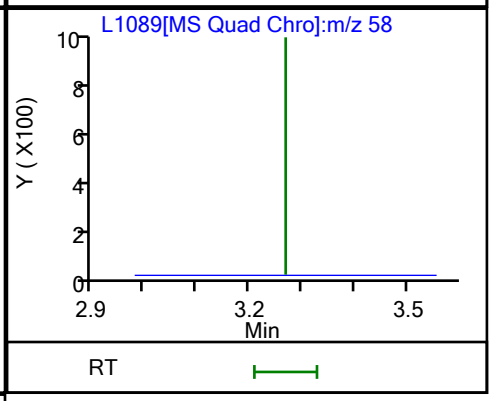
31 Acetone, CAS: 67-64-1

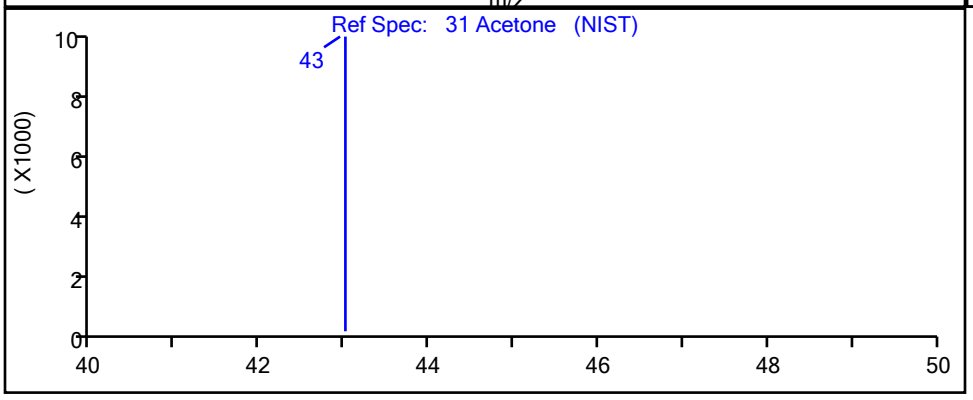
Processing Results











RT	Mass	Response	Amount
3.26	43.00	4344	1.416832
3.27	58.00	0	

Reviewer: R3QB, 29-Sep-2023 09:35:15 -04:00:00 (UTC)

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-3-09272023 | Lab Sample ID: 480-213168-10

Matrix: Water | Lab File ID: L1090.D

Analysis Method: 8260C | Date Collected: 09/27/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 08:09

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.7	J	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	5.8	J *+	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	0.53	J	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-3-09272023 | Lab Sample ID: 480-213168-10

Matrix: Water | Lab File ID: L1090.D

Analysis Method: 8260C | Date Collected: 09/27/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 08:09

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1090.D
Lims ID: 480-213168-A-10
Client ID: EB-3-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 08:09:12 ALS Bottle#: 0 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-10
Misc. Info.: 480-0114025-044
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:35:54 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:35:54

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.673	5.670	0.003	99	122414	25.0	
*	2 Chlorobenzene-d5	117	8.547	8.544	0.003	86	482464	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	279008	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	165713	26.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	97	199967	25.7	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	633862	25.5	
$	7 4-Bromofluorobenzene (Surr)	174	9.789	9.785	0.004	98	176642	25.4	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.053				ND	
	18 Bromomethane	94		2.413				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.721				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.191				ND	
	31 Acetone	43	3.271	3.268	0.003	97	17588	5.81	
	35 Carbon disulfide	76		3.416				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.651				ND	
	41 Methyl tert-butyl ether	73		3.808				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.210				ND	
	58 cis-1,2-Dichloroethene	96		4.705				ND	
	57 2-Butanone (MEK)	43	4.724	4.718	0.006	98	10321	1.73	
	62 Chloroform	83	4.978	4.975	0.003	90	7110	0.5286	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117		5.239				ND	
	70 Benzene	78		5.432				ND	
	72 1,2-Dichloroethane	62		5.487				ND	
	75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	U
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

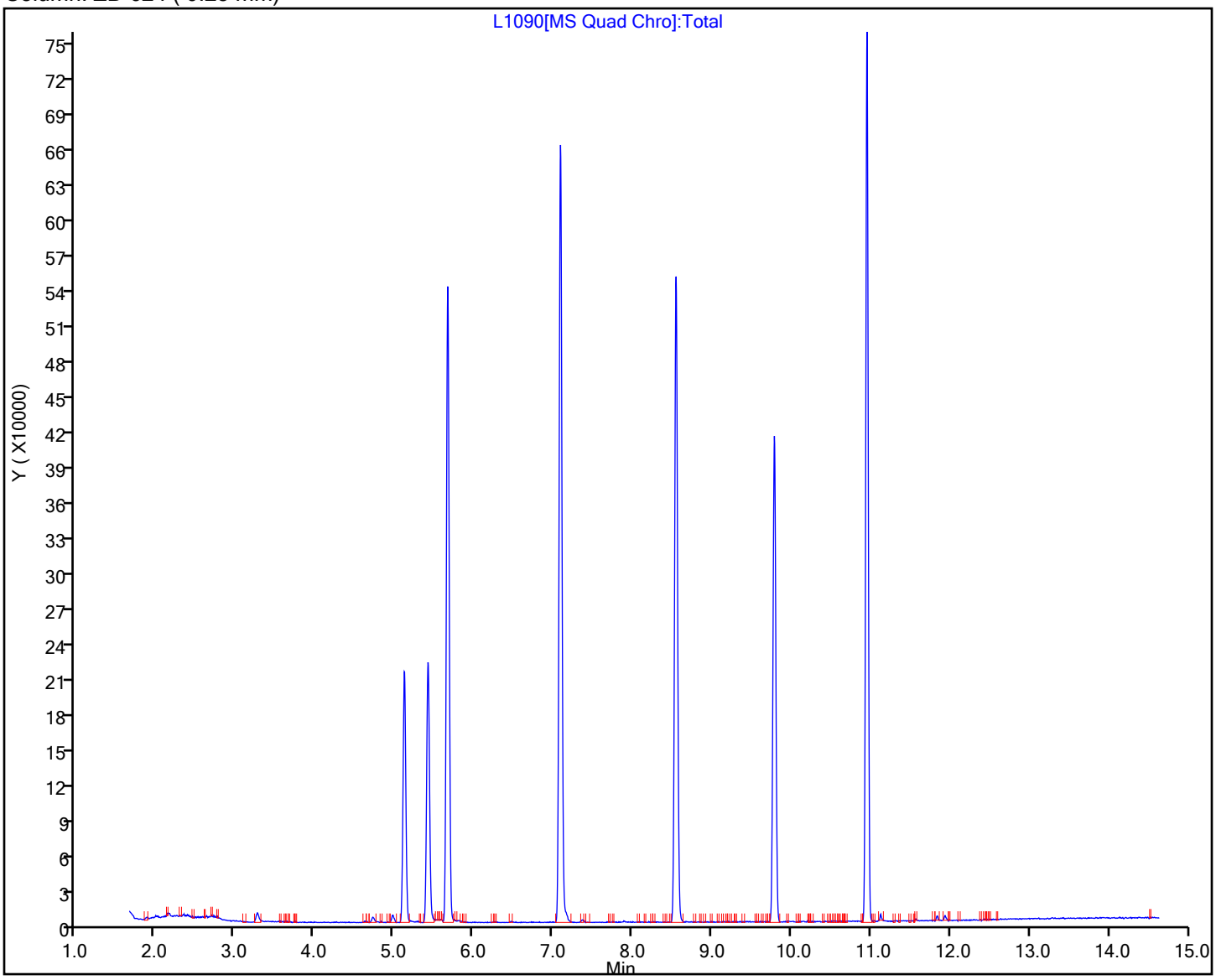
Report Date: 29-Sep-2023 09:35:54 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1090.D

Injection Date:	29-Sep-2023 08:09:12	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-10	Lab Sample ID:	480-213168-10		
Client ID:	EB-3-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1090.D
Lims ID: 480-213168-A-10
Client ID: EB-3-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 08:09:12 ALS Bottle#: 0 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-10
Misc. Info.: 480-0114025-044
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:35:54 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

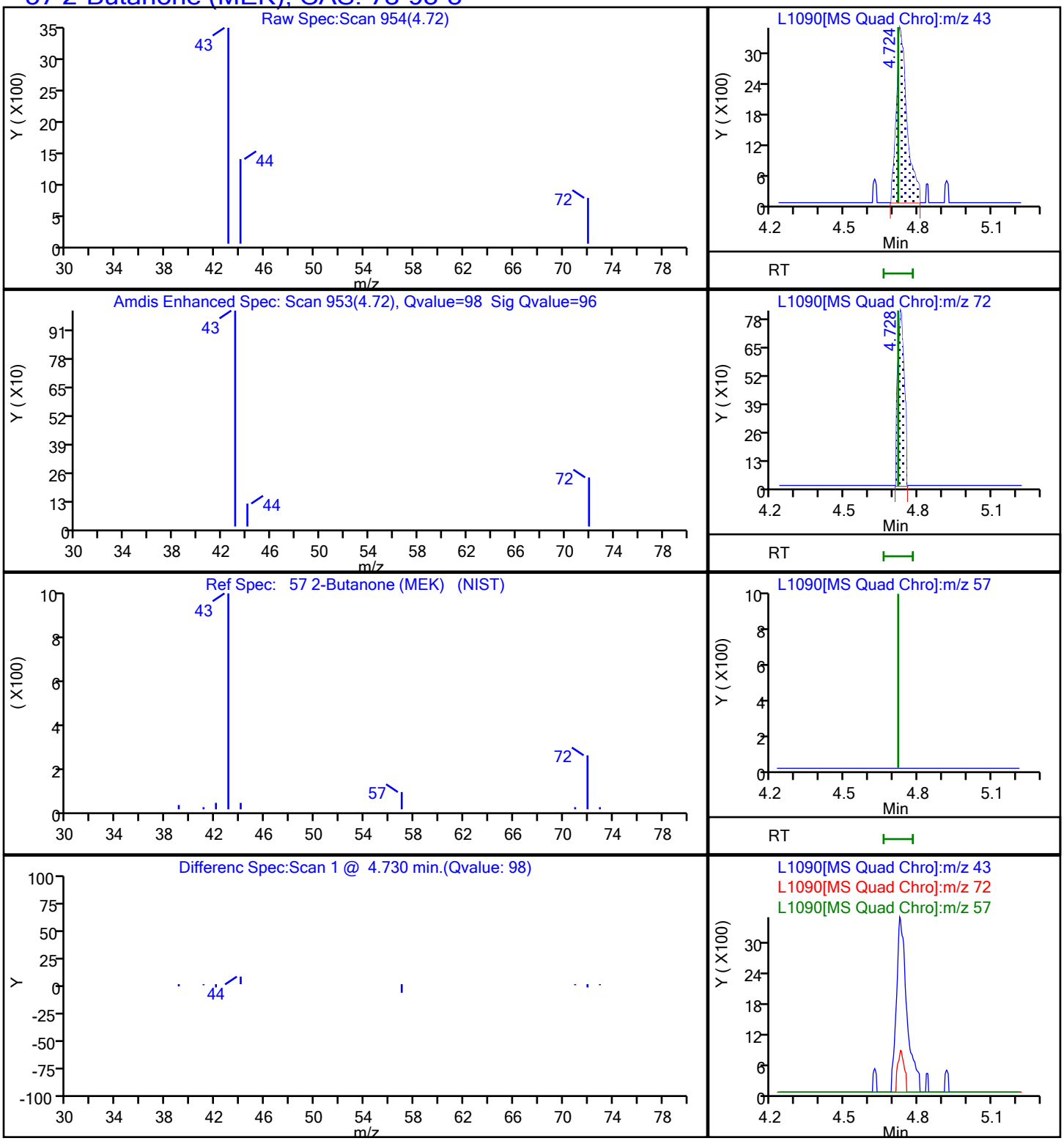
First Level Reviewer: R3QB Date: 29-Sep-2023 09:35:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.3	105.31
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.7	102.84
$ 6 Toluene-d8 (Surr)	25.0	25.5	102.07
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.4	101.72

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1090.D
Injection Date: 29-Sep-2023 08:09:12 Instrument ID: HP5977L
Lims ID: 480-213168-A-10 Lab Sample ID: 480-213168-10
Client ID: EB-3-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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



Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1090.D
Injection Date: 29-Sep-2023 08:09:12 Instrument ID: HP5977L
Lims ID: 480-213168-A-10 Lab Sample ID: 480-213168-10
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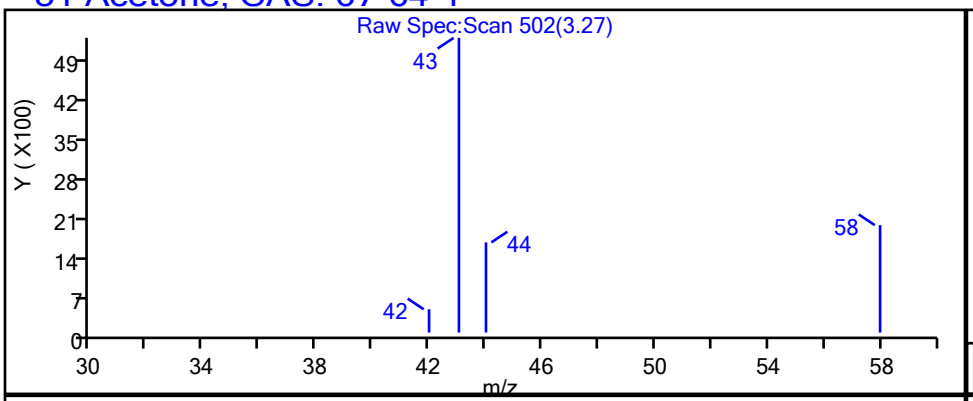
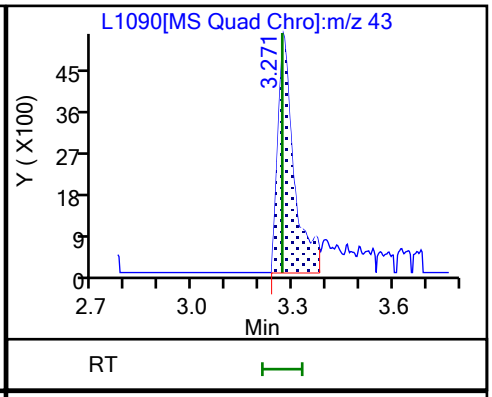
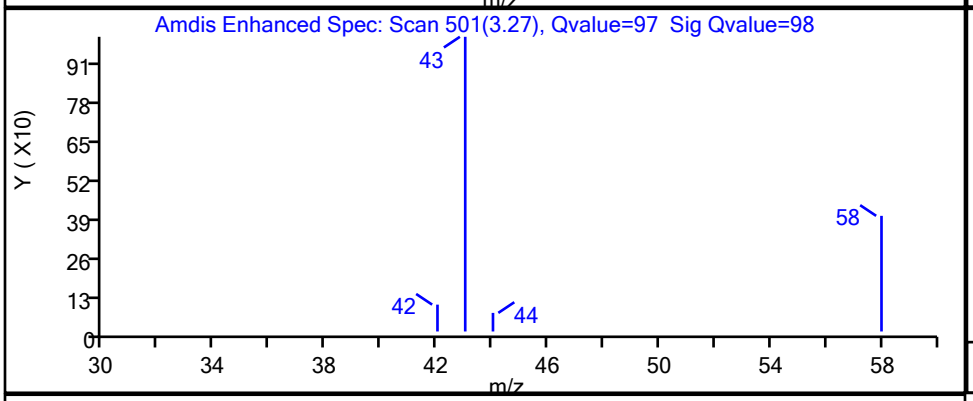
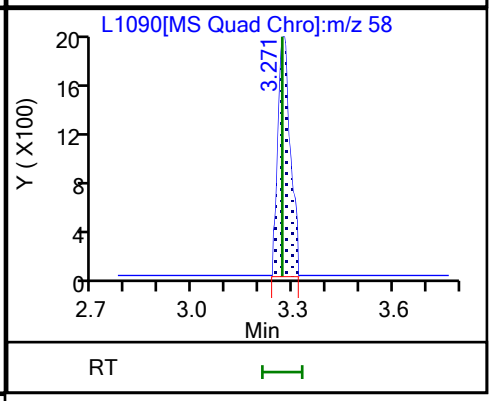
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

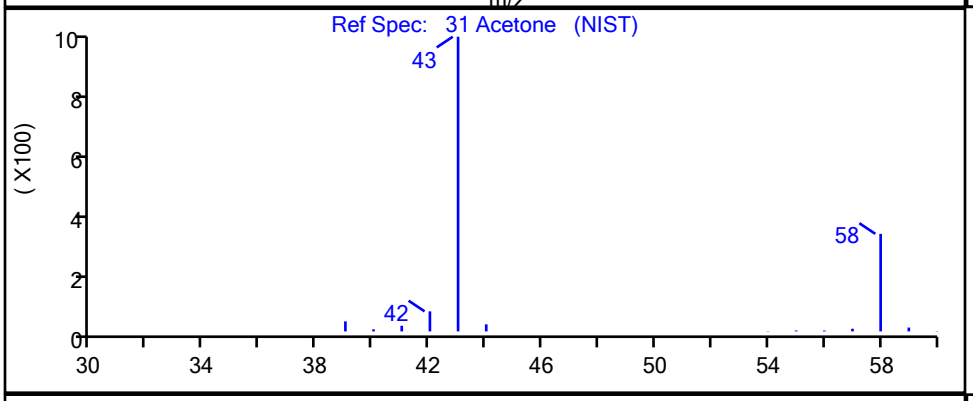
31 Acetone, CAS: 67-64-1

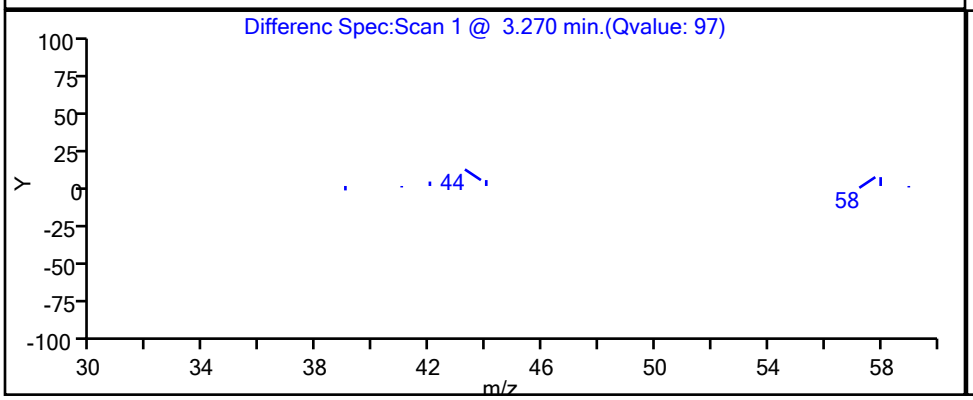


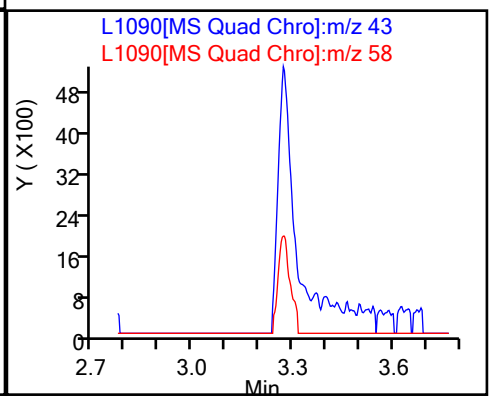












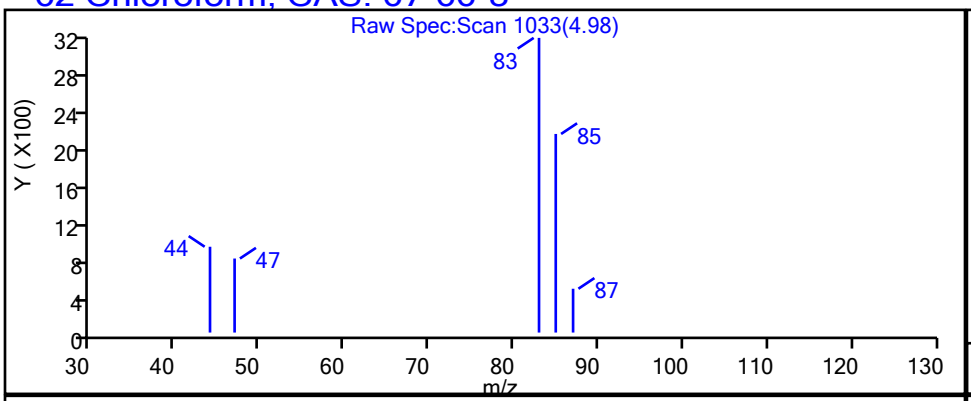
Report Date: 29-Sep-2023 09:35:55 Chrom Revision: 2.3 22-Sep-2023 11:33:50

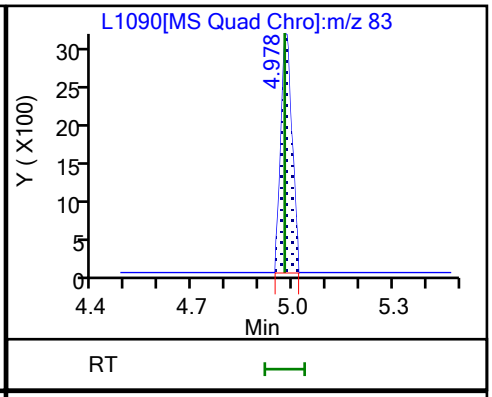
Eurofins Buffalo

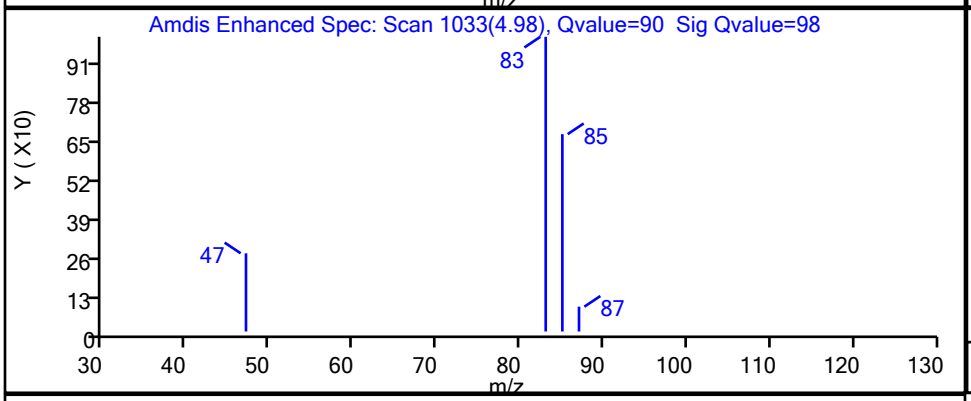
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1090.D

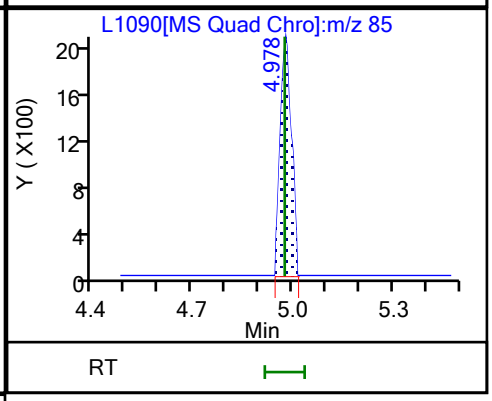
Injection Date:	29-Sep-2023 08:09:12	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-10	Lab Sample ID:	480-213168-10		
Client ID:	EB-3-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

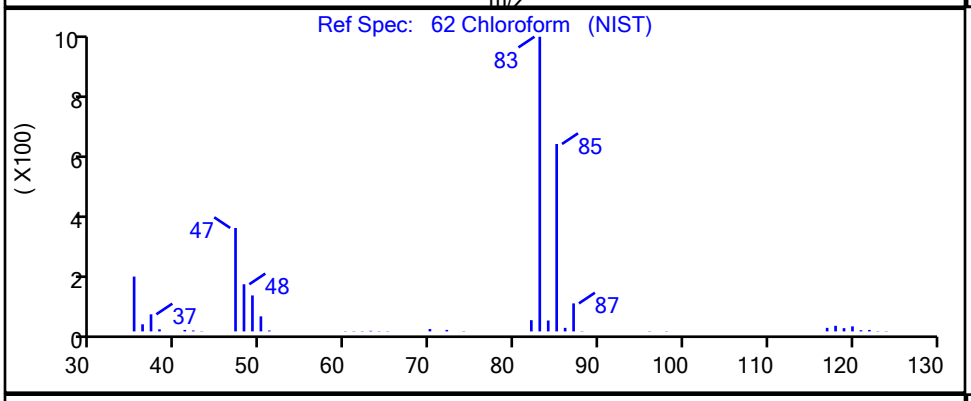
62 Chloroform, CAS: 67-66-3

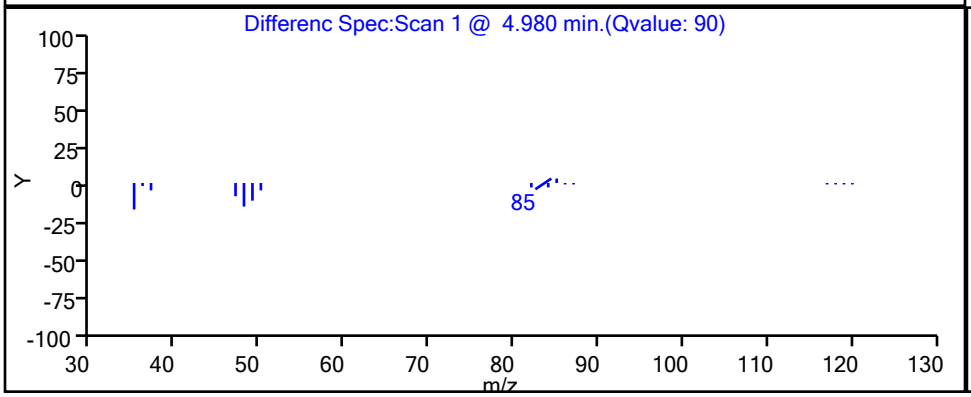


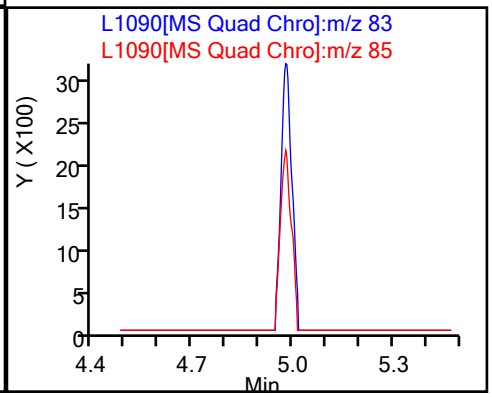












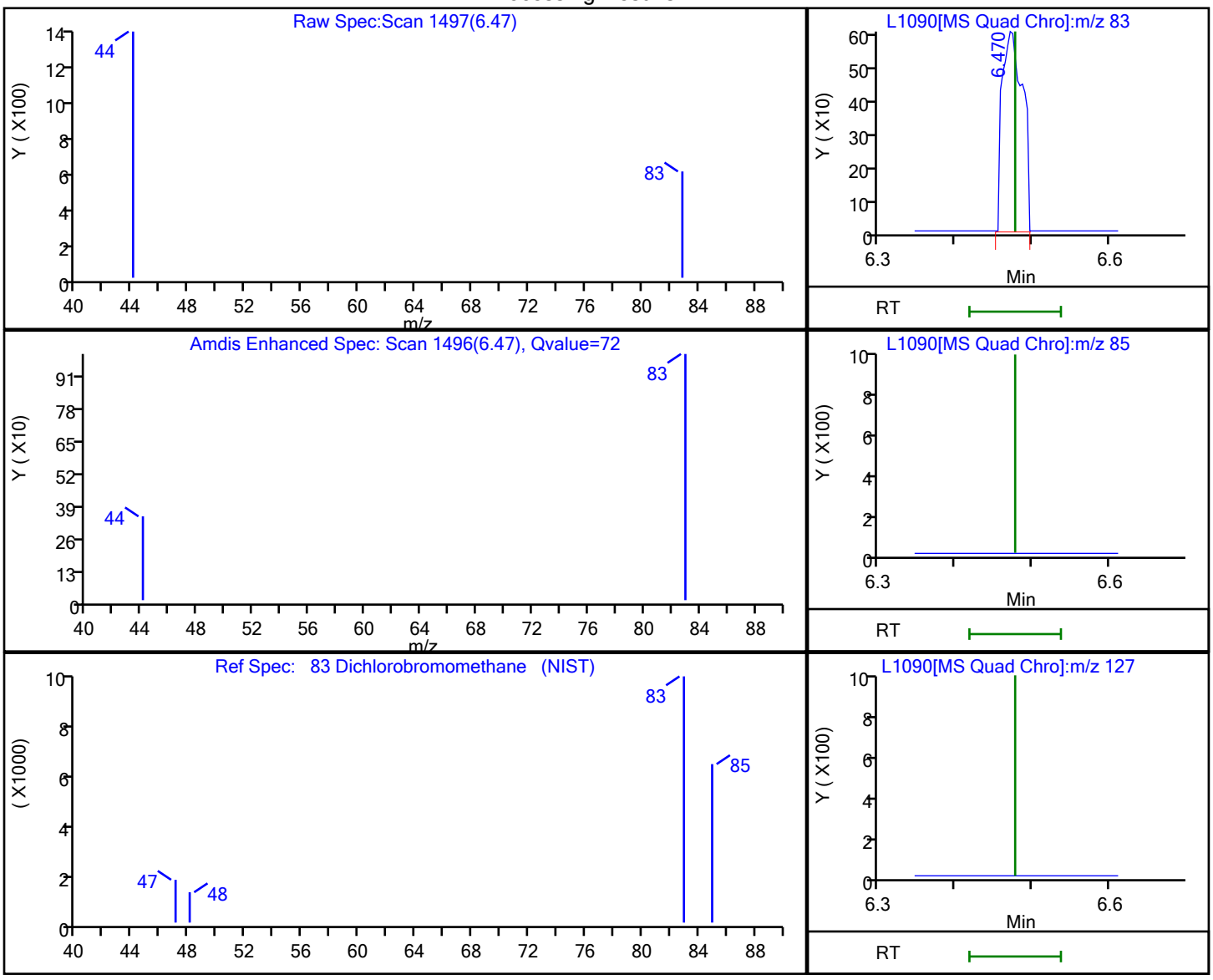
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1090.D
Injection Date: 29-Sep-2023 08:09:12 Instrument ID: HP5977L
Lims ID: 480-213168-A-10 Lab Sample ID: 480-213168-10
Client ID: EB-3-09272023
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

83 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
6.47	83.00	1124	0.132199
6.48	85.00	0	
6.48	127.00	0	

Reviewer: R3QB, 29-Sep-2023 09:35:47 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: TB-3-09272023 | Lab Sample ID: 480-213168-11

Matrix: Water | Lab File ID: L1091.D

Analysis Method: 8260C | Date Collected: 09/27/2023 16:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 08:33

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: TB-3-09272023 | Lab Sample ID: 480-213168-11

Matrix: Water | Lab File ID: L1091.D

Analysis Method: 8260C | Date Collected: 09/27/2023 16:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 08:33

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1091.D
Lims ID: 480-213168-A-11
Client ID: TB-3-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 08:33:28 ALS Bottle#: 0 Worklist Smp#: 45
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213168-A-11
Misc. Info.: 480-0114025-045
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:35:54 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:36:11

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
*	1 Fluorobenzene (IS)	70	5.673	5.670	0.003	99	125250	25.0	
*	2 Chlorobenzene-d5	117	8.547	8.544	0.003	87	484949	25.0	
*	3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	277195	25.0	
$	4 Dibromofluoromethane (Surr)	113	5.126	5.123	0.003	93	164674	25.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	203725	25.6	
$	6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	94	624275	25.0	
$	7 4-Bromofluorobenzene (Surr)	174	9.789	9.785	0.004	98	169935	24.3	
	10 Dichlorodifluoromethane	85		1.721				ND	
	13 Chloromethane	50		1.940				ND	
	14 Vinyl chloride	62		2.053				ND	
	18 Bromomethane	94		2.413				ND	
	19 Chloroethane	64		2.483				ND	
	21 Trichlorofluoromethane	101		2.721				ND	
	29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159				ND	
	30 1,1-Dichloroethene	96		3.191				ND	
	31 Acetone	43	3.281	3.268	0.013	97	6885	2.22	
	35 Carbon disulfide	76		3.416				ND	
	38 Methyl acetate	43		3.525				ND	
	39 Methylene Chloride	84		3.651				ND	
	41 Methyl tert-butyl ether	73		3.808				ND	
	42 trans-1,2-Dichloroethene	96		3.837				ND	
	50 1,1-Dichloroethane	63		4.210				ND	
	58 cis-1,2-Dichloroethene	96		4.705				ND	
	57 2-Butanone (MEK)	43		4.718				ND	
	62 Chloroform	83		4.975				ND	
	64 1,1,1-Trichloroethane	97		5.107				ND	
	65 Cyclohexane	56		5.126				ND	
	66 Carbon tetrachloride	117		5.239				ND	
	70 Benzene	78		5.432				ND	
	72 1,2-Dichloroethane	62		5.487				ND	
	75 Trichloroethene	95		5.985				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.110				ND	
77 1,2-Dichloropropane	63		6.216				ND	
83 Dichlorobromomethane	83		6.477				ND	
85 cis-1,3-Dichloropropene	75		6.866				ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
88 Toluene	92		7.152				ND	
91 trans-1,3-Dichloropropene	75		7.400				ND	
93 1,1,2-Trichloroethane	83		7.596				ND	
94 Tetrachloroethene	166		7.673				ND	
96 2-Hexanone	43		7.789				ND	
98 Chlorodibromomethane	129		7.998				ND	
101 Ethylene Dibromide	107		8.120				ND	
103 Chlorobenzene	112		8.576				ND	
104 Ethylbenzene	91		8.644				ND	
106 m-Xylene & p-Xylene	106		8.760				ND	
107 o-Xylene	106		9.191				ND	
109 Styrene	104		9.220				ND	
110 Bromoform	173		9.490				ND	
111 Isopropylbenzene	105		9.564				ND	
112 1,1,2,2-Tetrachloroethane	83		9.972				ND	
124 1,3-Dichlorobenzene	146		10.888				ND	
126 1,4-Dichlorobenzene	146		10.975				ND	
128 1,2-Dichlorobenzene	146		11.329				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030				ND	
130 1,2,4-Trichlorobenzene	180		12.657				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

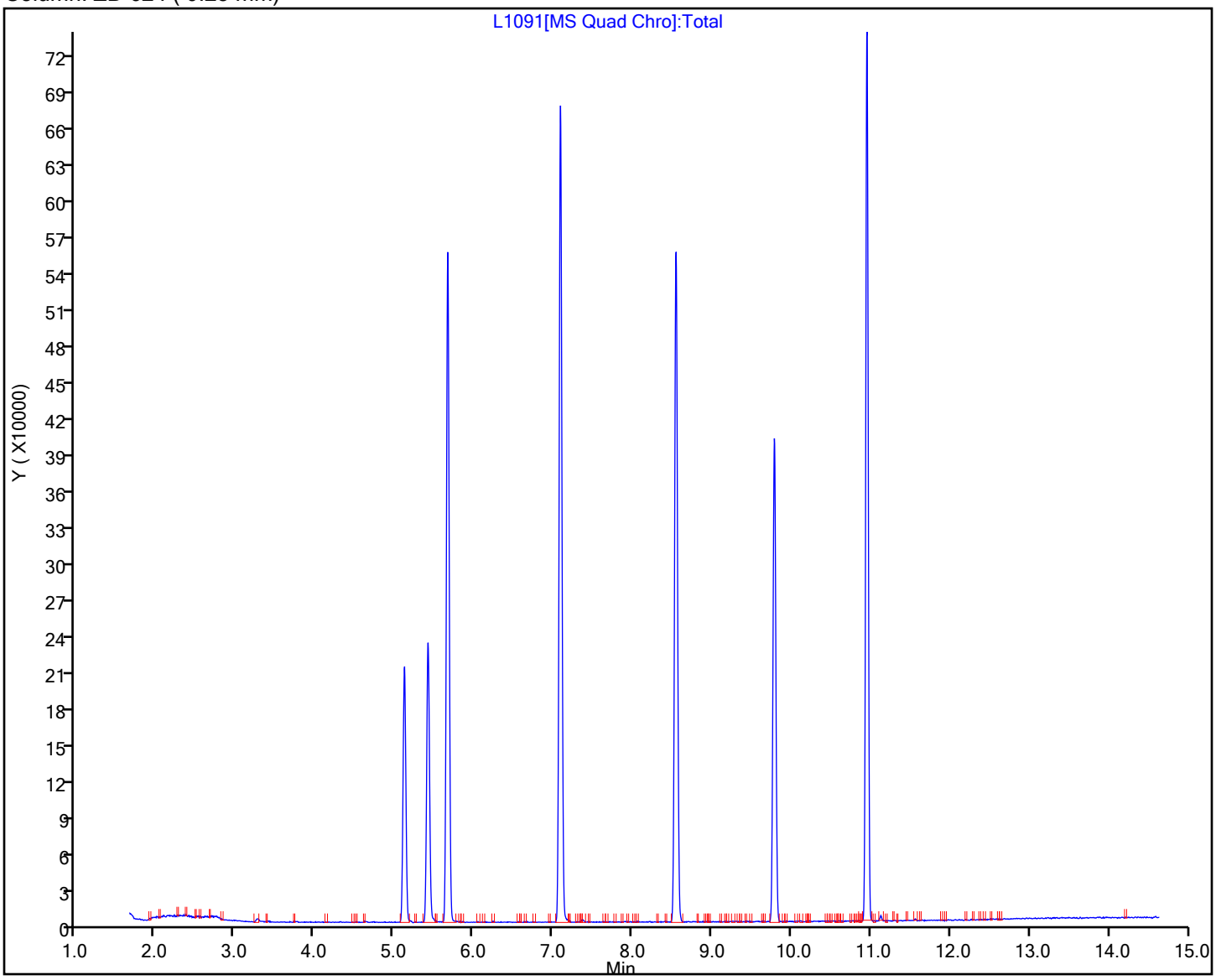
Report Date: 29-Sep-2023 09:36:11 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1091.D

Injection Date:	29-Sep-2023 08:33:28	Instrument ID:	HP5977L		
Lims ID:	480-213168-A-11	Lab Sample ID:	480-213168-11		
Client ID:	TB-3-09272023				
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1091.D				
Lims ID:	480-213168-A-11				
Client ID:	TB-3-09272023				
Sample Type:	Client				
Inject. Date:	29-Sep-2023 08:33:28	ALS Bottle#:	0	Worklist Smp#:	45
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-213168-A-11				
Misc. Info.:	480-0114025-045				
Operator ID:	LH	Instrument ID:	HP5977L		
Method:	\\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Sep-2023 09:35:54	Calib Date:	25-Sep-2023 22:18:27		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS Quad		
Process Host:	CTX1657				

First Level Reviewer: R3QB Date: 29-Sep-2023 09:36:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.6	102.28
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.6	102.40
$ 6 Toluene-d8 (Surr)	25.0	25.0	100.01
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.3	97.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-4S-09282023 | Lab Sample ID: 480-213196-1

Matrix: Water | Lab File ID: D4459.d

Analysis Method: 8260C | Date Collected: 09/28/2023 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 17:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-4S-09282023 | Lab Sample ID: 480-213196-1

Matrix: Water | Lab File ID: D4459.d

Analysis Method: 8260C | Date Collected: 09/28/2023 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 17:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4459.d
Lims ID: 480-213196-A-1
Client ID: GW-4S-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 17:56:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-1
Misc. Info.: 480-0114077-009
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:26:25 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 18:26:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	99	94870	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	198185	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	226871	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.390	4.389	0.001	93	168475	24.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.652	4.645	0.007	100	88648	24.0	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	437610	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.187	0.001	95	157644	25.7	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43		2.573				ND	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83		4.261				ND	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

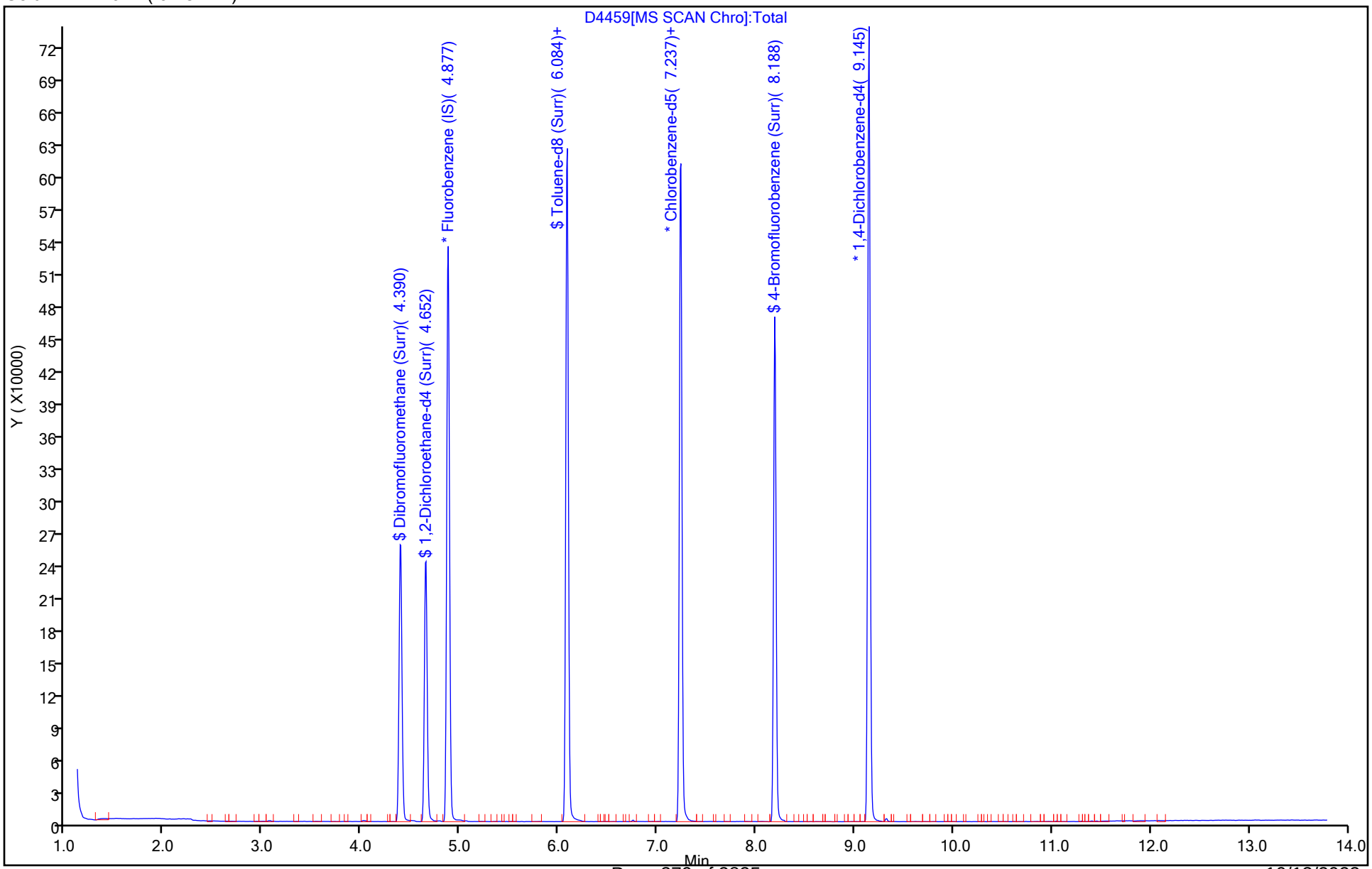
Report Date: 02-Oct-2023 18:26:41 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4459.d

Injection Date:	02-Oct-2023 17:56:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-1	Lab Sample ID:	480-213196-1	Worklist Smp#:	9
Client ID:	GW-4S-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4459.d
Lims ID: 480-213196-A-1
Client ID: GW-4S-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 17:56:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-1
Misc. Info.: 480-0114077-009
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:26:25 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 18:26:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.0	96.16
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.0	95.97
$ 5 Toluene-d8 (Surr)	25.0	24.3	97.00
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.7	102.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-4D-09282023 | Lab Sample ID: 480-213196-2

Matrix: Water | Lab File ID: D4460.d

Analysis Method: 8260C | Date Collected: 09/28/2023 08:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 18:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-4D-09282023 | Lab Sample ID: 480-213196-2

Matrix: Water | Lab File ID: D4460.d

Analysis Method: 8260C | Date Collected: 09/28/2023 08:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 18:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4460.d
Lims ID: 480-213196-A-2
Client ID: GW-4D-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 18:19:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-2
Misc. Info.: 480-0114077-010
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 17:41:41 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 19:55:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	99	94823	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	198858	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	218058	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.396	4.389	0.007	92	169557	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.652	4.645	0.007	100	88493	24.0	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	430042	23.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.188	0.001	95	155826	25.3	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43		2.573				ND	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83		4.261				ND	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

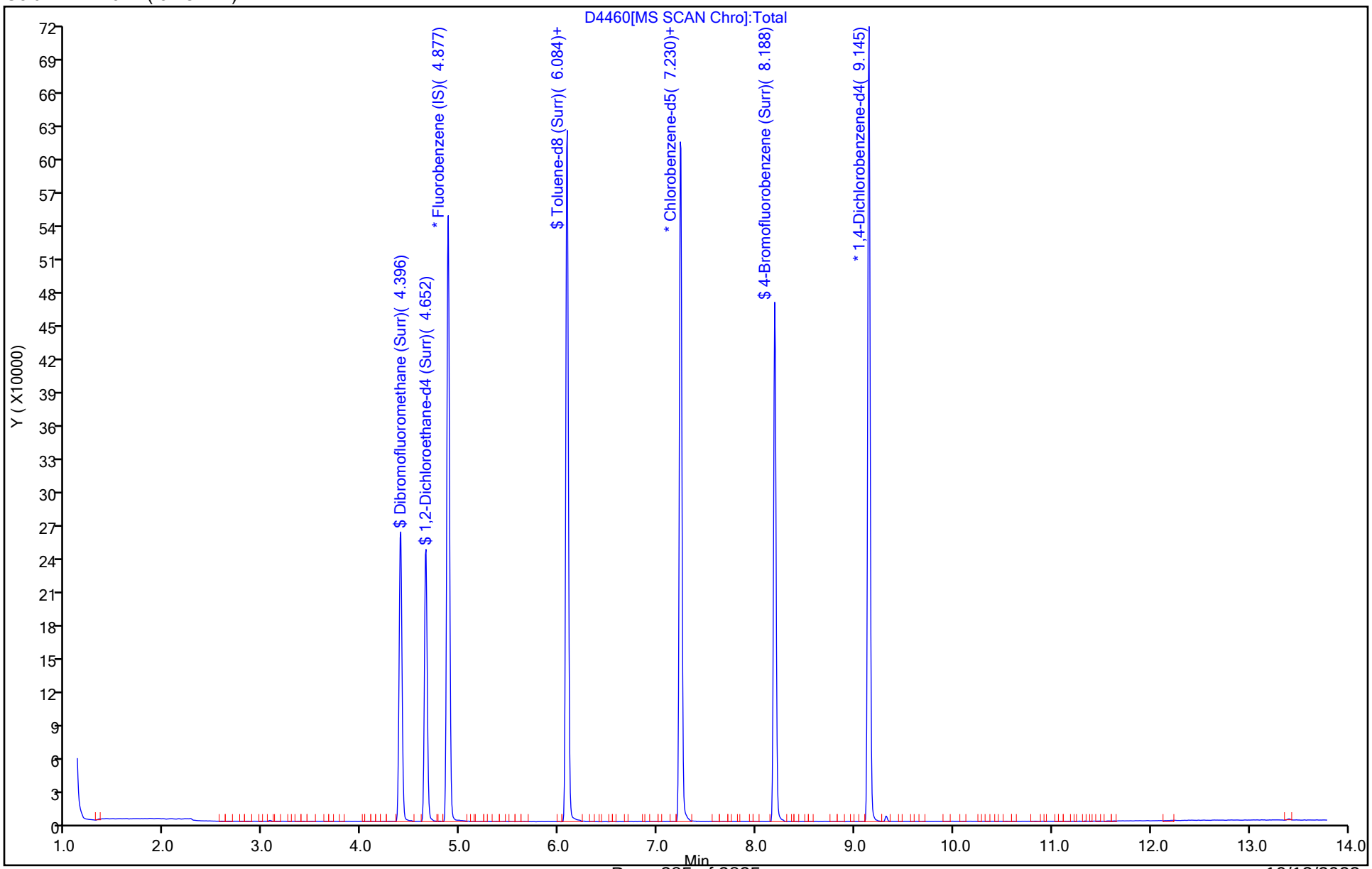
Report Date: 02-Oct-2023 19:55:32 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4460.d

Injection Date:	02-Oct-2023 18:19:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-2	Lab Sample ID:	480-213196-2	Worklist Smp#:	10
Client ID:	GW-4D-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4460.d
Lims ID: 480-213196-A-2
Client ID: GW-4D-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 18:19:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-2
Misc. Info.: 480-0114077-010
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 17:41:41 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 19:55:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.2	96.83
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.0	95.85
$ 5 Toluene-d8 (Surr)	25.0	23.8	95.00
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.3	101.21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-24DR-09282023 | Lab Sample ID: 480-213196-3

Matrix: Water | Lab File ID: D4461.d

Analysis Method: 8260C | Date Collected: 09/28/2023 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 18:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	4.0		1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	0.61	J	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-24DR-09282023 | Lab Sample ID: 480-213196-3

Matrix: Water | Lab File ID: D4461.d

Analysis Method: 8260C | Date Collected: 09/28/2023 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 18:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	6.3		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4461.d
Lims ID: 480-213196-A-3
Client ID: GW-M-24DR-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 18:41:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-3
Misc. Info.: 480-0114077-011
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 17:41:41 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 19:55:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	99	96440	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	86	200859	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	231605	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.389	0.000	92	172857	24.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.652	4.645	0.007	100	90694	24.1	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	447070	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.187	8.188	0.000	96	164165	26.4	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43		2.573				ND	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83	4.261	4.261	0.000	93	6913	0.6055	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117	4.475	4.475	0.000	97	28684	3.99	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95	5.152	5.151	0.001	95	37492	6.30	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

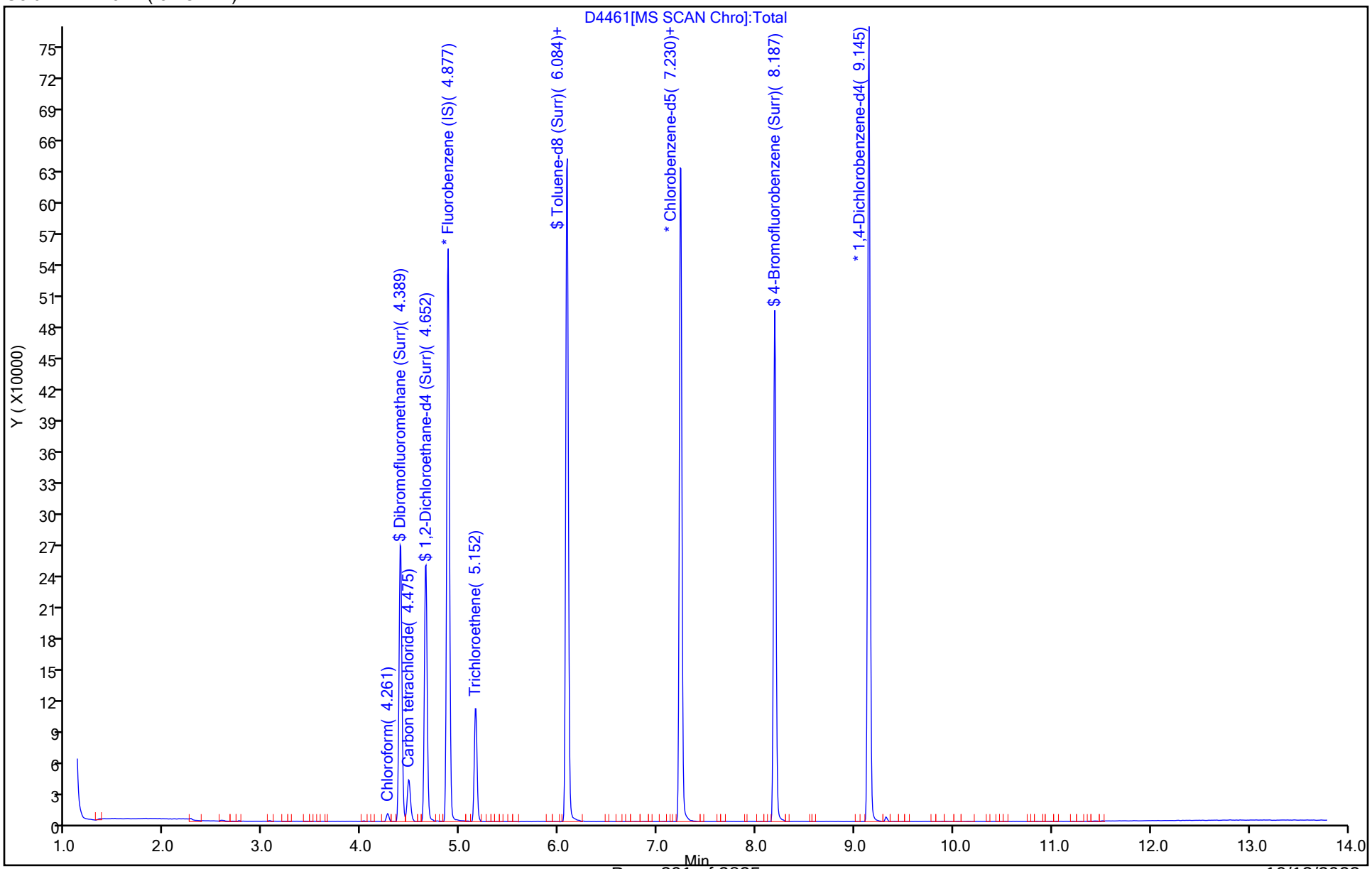
Report Date: 02-Oct-2023 19:55:52 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4461.d

Injection Date:	02-Oct-2023 18:41:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-3	Lab Sample ID:	480-213196-3	Worklist Smp#:	11
Client ID:	GW-M-24DR-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



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Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4461.d
Lims ID: 480-213196-A-3
Client ID: GW-M-24DR-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 18:41:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-3
Misc. Info.: 480-0114077-011
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 17:41:41 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 19:55:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.3	97.06
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.1	96.58
$ 5 Toluene-d8 (Surr)	25.0	24.4	97.78
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.4	105.56

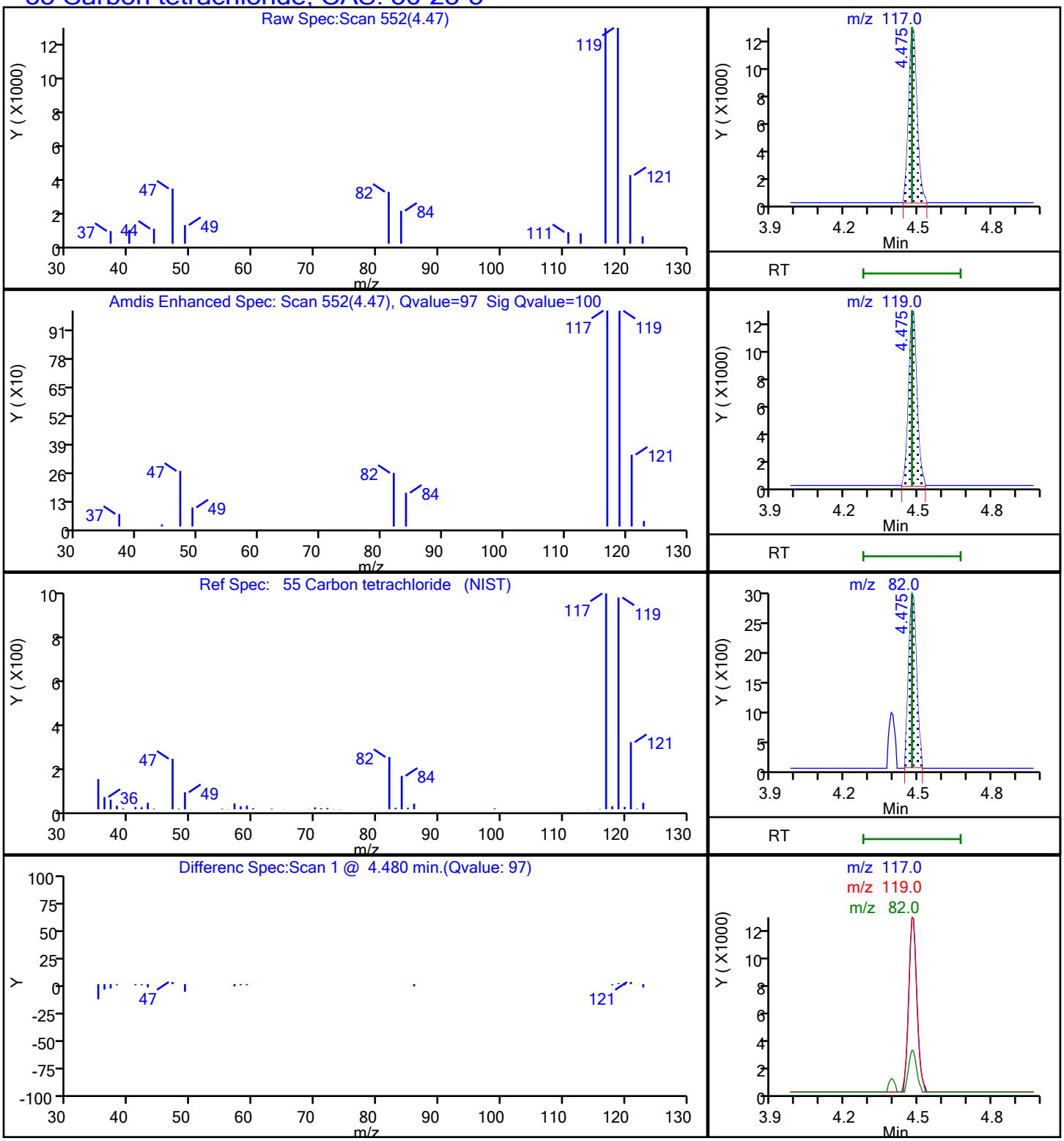
Report Date: 02-Oct-2023 19:55:52 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4461.d

Injection Date:	02-Oct-2023 18:41:30	Instrument ID:	HP5975D		
Lims ID:	480-213196-A-3	Lab Sample ID:	480-213196-3		
Client ID:	GW-M-24DR-09282023				
Operator ID:	AK	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



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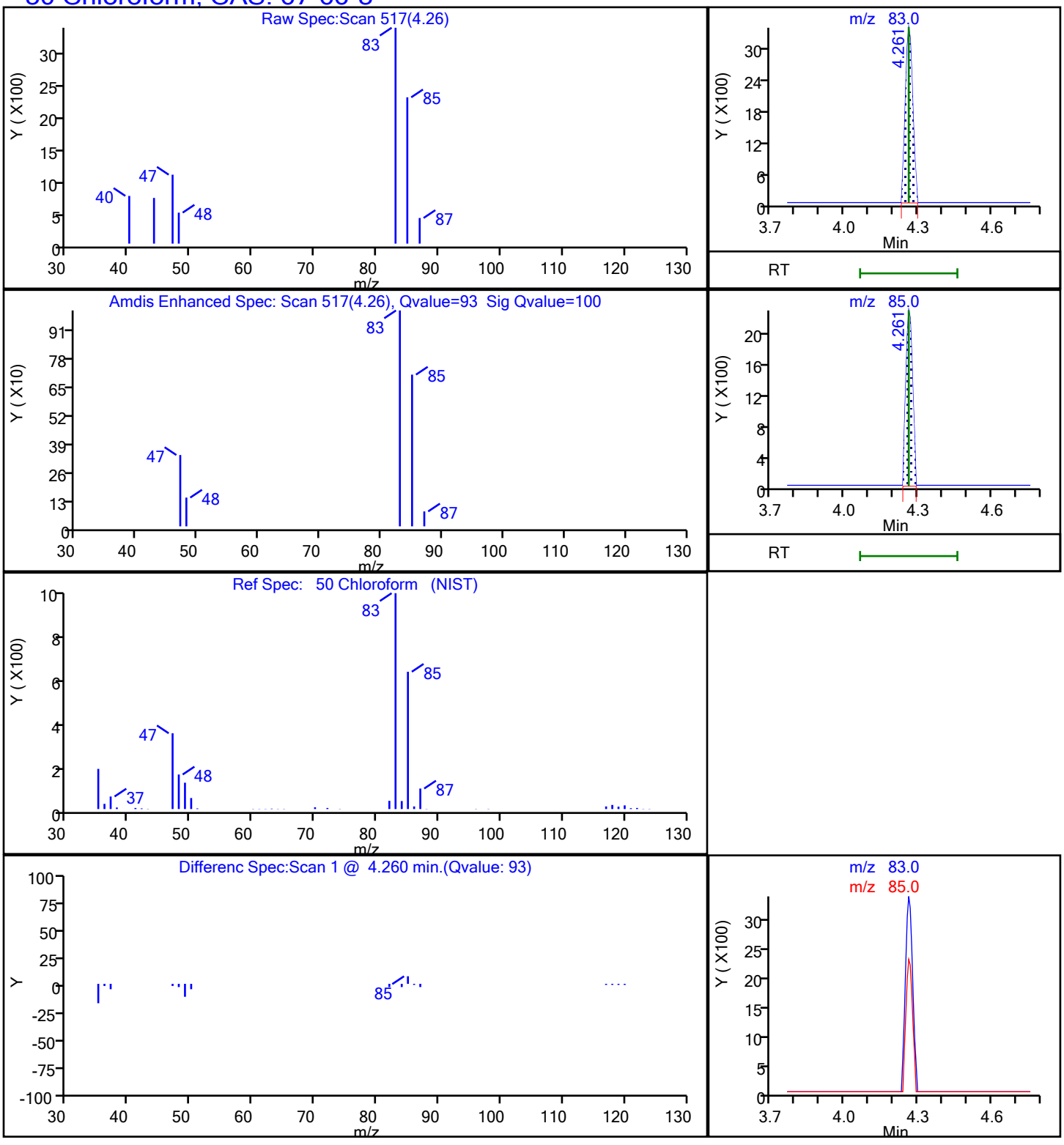
Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4461.d
Injection Date: 02-Oct-2023 18:41:30 Instrument ID: HP5975D
Lims ID: 480-213196-A-3 Lab Sample ID: 480-213196-3
Client ID: GW-M-24DR-09282023
Operator ID: AK ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

50 Chloroform, CAS: 67-66-3



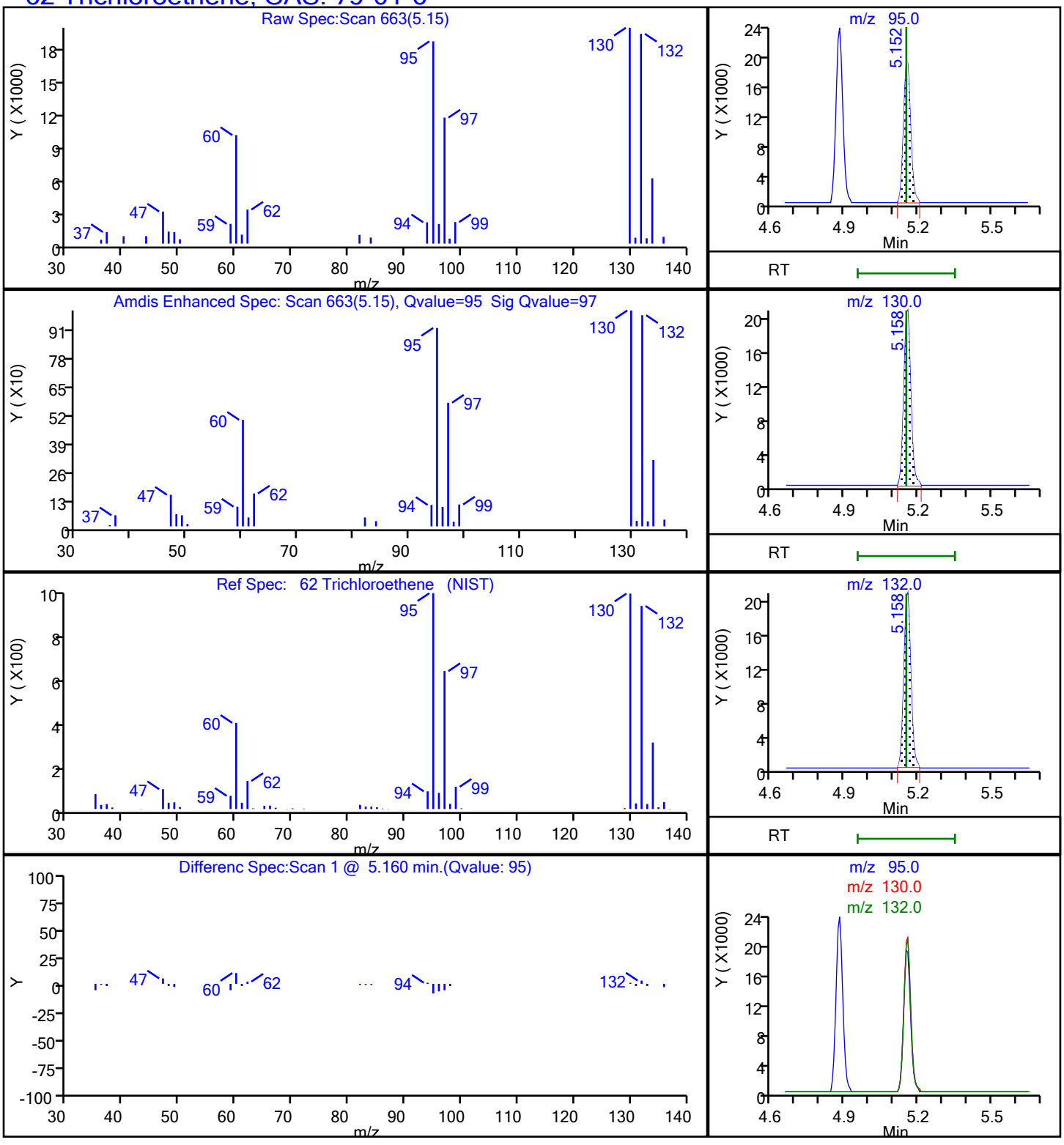
Report Date: 02-Oct-2023 19:55:52 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4461.d

Injection Date:	02-Oct-2023 18:41:30	Instrument ID:	HP5975D		
Lims ID:	480-213196-A-3	Lab Sample ID:	480-213196-3		
Client ID:	GW-M-24DR-09282023				
Operator ID:	AK	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-DGC-4S-09282023 | Lab Sample ID: 480-213196-4

Matrix: Water | Lab File ID: D4462.d

Analysis Method: 8260C | Date Collected: 09/28/2023 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 19:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-DGC-4S-09282023 | Lab Sample ID: 480-213196-4

Matrix: Water | Lab File ID: D4462.d

Analysis Method: 8260C | Date Collected: 09/28/2023 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 19:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4462.d
Lims ID: 480-213196-A-4
Client ID: GW-DGC-4S-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 19:03:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-4
Misc. Info.: 480-0114077-012
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 17:41:41 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 19:56:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	98	94719	25.0	
* 2 Chlorobenzene-d5	82	7.237	7.230	0.007	87	196102	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	210989	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.396	4.389	0.007	92	169468	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.652	4.645	0.007	100	89820	24.3	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	428096	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.188	0.001	96	152016	25.0	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43		2.573				ND	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83		4.261				ND	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

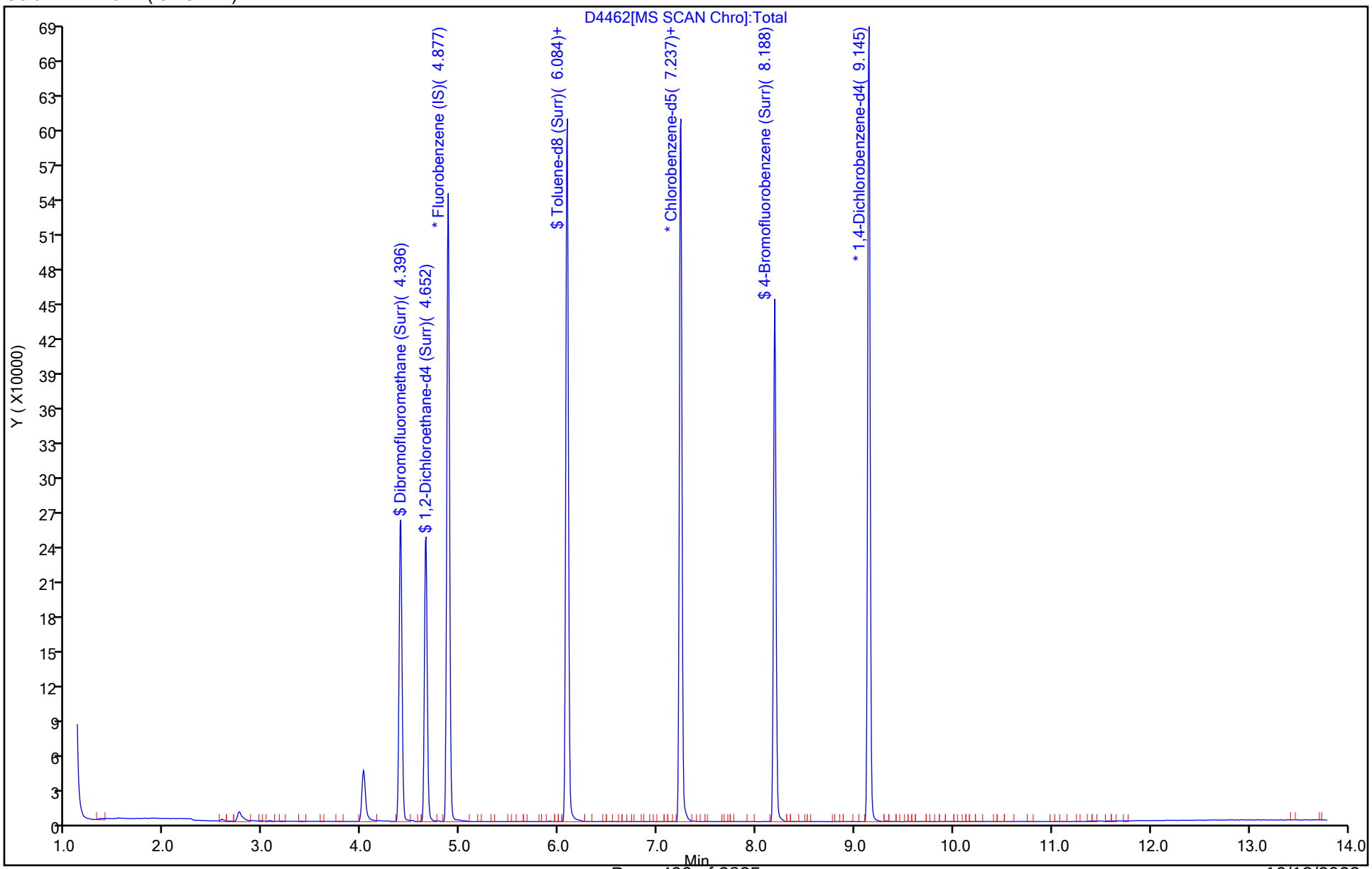
Report Date: 02-Oct-2023 19:56:07 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4462.d

Injection Date:	02-Oct-2023 19:03:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-4	Lab Sample ID:	480-213196-4	Worklist Smp#:	12
Client ID:	GW-DGC-4S-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4462.d
Lims ID: 480-213196-A-4
Client ID: GW-DGC-4S-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 19:03:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-4
Misc. Info.: 480-0114077-012
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 17:41:41 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 19:56:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.2	96.89
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.3	97.39
$ 5 Toluene-d8 (Surr)	25.0	24.0	95.90
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.0	100.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-F-09282023 | Lab Sample ID: 480-213196-5

Matrix: Water | Lab File ID: D4463.d

Analysis Method: 8260C | Date Collected: 09/28/2023 12:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 19:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-F-09282023 | Lab Sample ID: 480-213196-5

Matrix: Water | Lab File ID: D4463.d

Analysis Method: 8260C | Date Collected: 09/28/2023 12:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 19:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4463.d
Lims ID: 480-213196-A-5
Client ID: SW-F-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 19:25:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-5
Misc. Info.: 480-0114077-013
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 17:41:41 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 19:56:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	99	98595	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	86	210418	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	239317	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.389	0.000	92	174568	24.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.645	0.001	100	91303	23.8	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	460212	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.188	0.001	96	170612	26.2	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43	2.579	2.573	0.006	96	4258	1.73	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83		4.261				ND	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

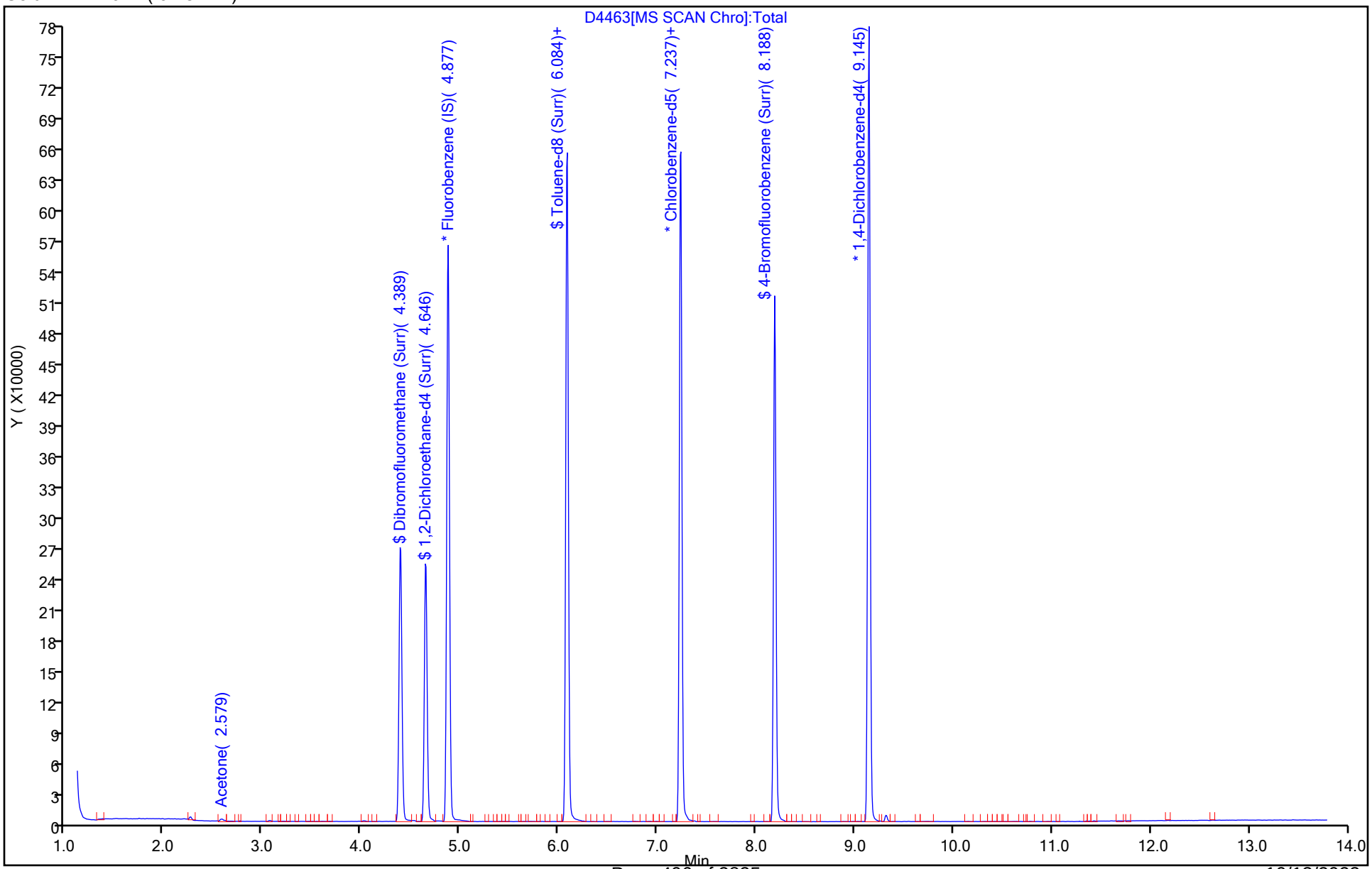
Report Date: 02-Oct-2023 19:56:35 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4463.d

Injection Date:	02-Oct-2023 19:25:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-5	Lab Sample ID:	480-213196-5	Worklist Smp#:	13
Client ID:	SW-F-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4463.d
Lims ID: 480-213196-A-5
Client ID: SW-F-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 19:25:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-5
Misc. Info.: 480-0114077-013
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 17:41:41 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 19:56:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.0	95.88
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.8	95.11
$ 5 Toluene-d8 (Surr)	25.0	24.0	96.08
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.2	104.72

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-A-09282023 | Lab Sample ID: 480-213196-6

Matrix: Water | Lab File ID: D4464.d

Analysis Method: 8260C | Date Collected: 09/28/2023 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 19:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-A-09282023 | Lab Sample ID: 480-213196-6

Matrix: Water | Lab File ID: D4464.d

Analysis Method: 8260C | Date Collected: 09/28/2023 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 19:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4464.d
Lims ID: 480-213196-A-6
Client ID: SW-A-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 19:47:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-6
Misc. Info.: 480-0114077-014
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:05:00 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 20:13:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	98	95374	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	199624	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	225787	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.390	4.389	0.001	92	172127	24.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.645	0.001	100	89347	24.1	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	434386	23.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.188	0.001	95	158811	25.7	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43		2.573				ND	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83	4.261	4.261	0.000	93	8850	0.7838	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

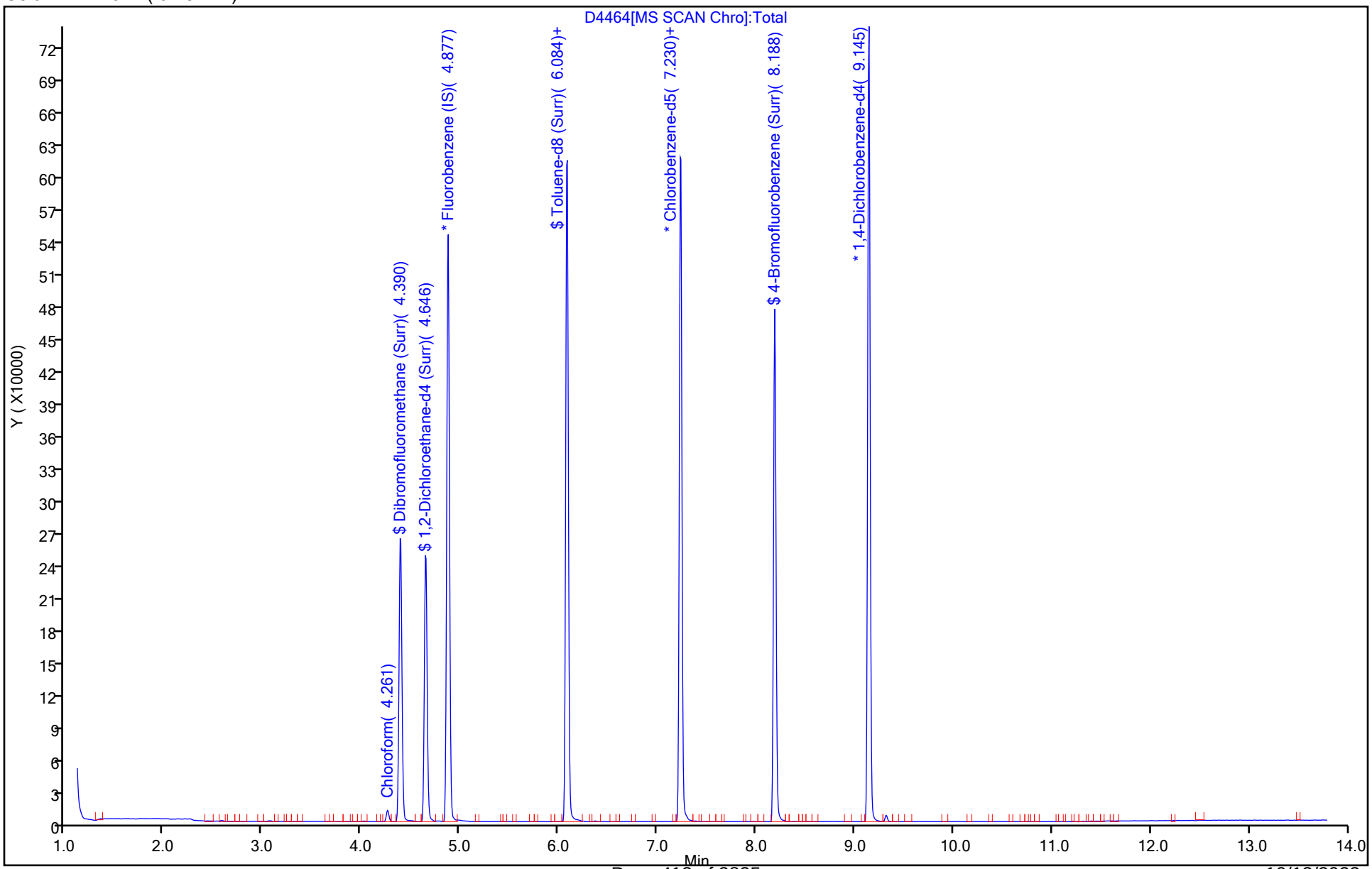
Report Date: 02-Oct-2023 20:13:23 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4464.d

Injection Date:	02-Oct-2023 19:47:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-6	Lab Sample ID:	480-213196-6	Worklist Smp#:	14
Client ID:	SW-A-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4464.d
Lims ID: 480-213196-A-6
Client ID: SW-A-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 19:47:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-6
Misc. Info.: 480-0114077-014
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:05:00 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 20:13:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.4	97.73
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.1	96.21
$ 5 Toluene-d8 (Surr)	25.0	23.9	95.60
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.7	102.75

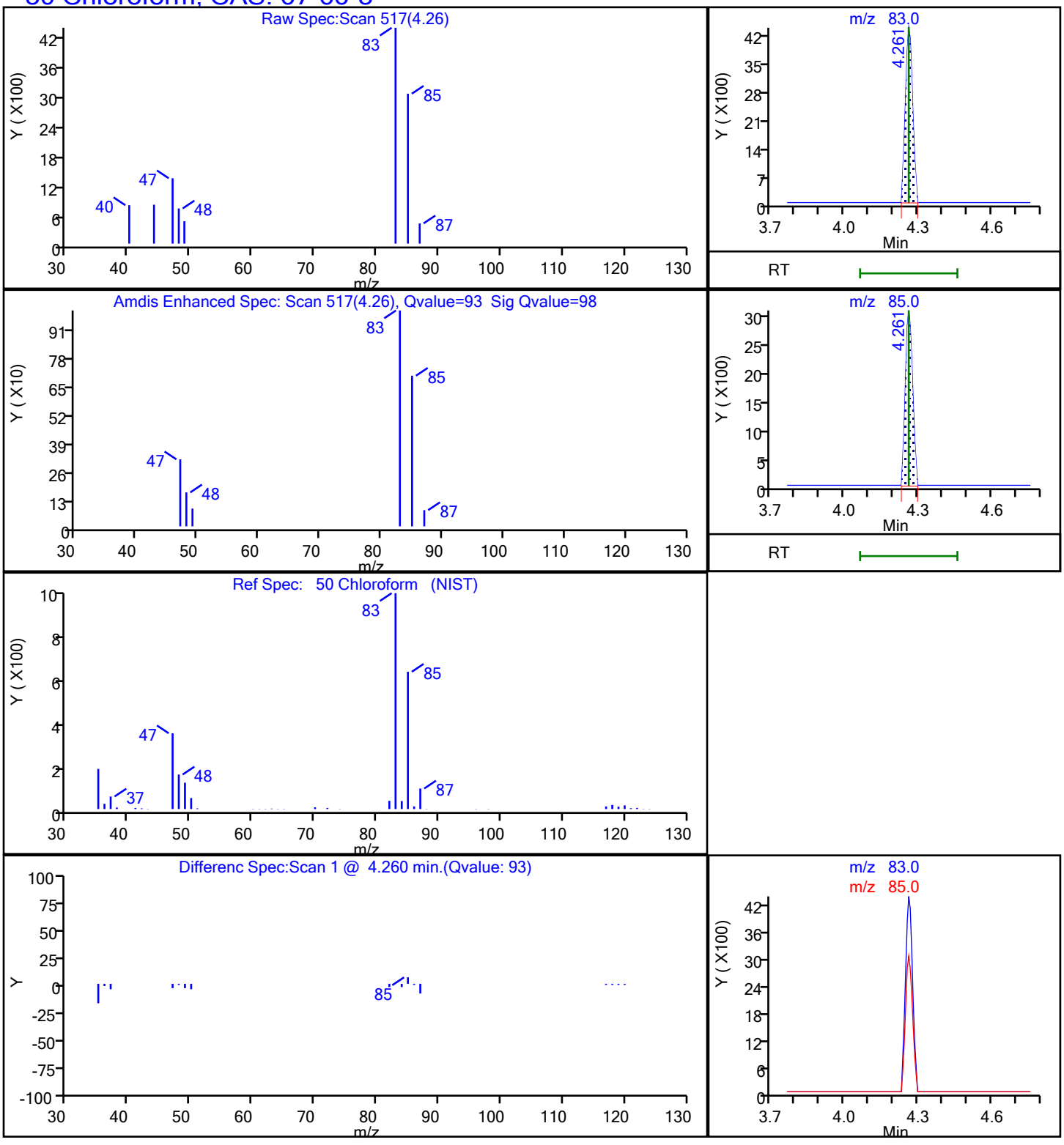
Report Date: 02-Oct-2023 20:13:23 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4464.d

Injection Date:	02-Oct-2023 19:47:30	Instrument ID:	HP5975D		
Lims ID:	480-213196-A-6	Lab Sample ID:	480-213196-6		
Client ID:	SW-A-09282023				
Operator ID:	AK	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



10/13/2023
10:08 AM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-E-09282023 | Lab Sample ID: 480-213196-7

Matrix: Water | Lab File ID: D4465.d

Analysis Method: 8260C | Date Collected: 09/28/2023 12:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 20:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-E-09282023 | Lab Sample ID: 480-213196-7

Matrix: Water | Lab File ID: D4465.d

Analysis Method: 8260C | Date Collected: 09/28/2023 12:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 20:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4465.d
Lims ID: 480-213196-A-7
Client ID: SW-E-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 20:09:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-7
Misc. Info.: 480-0114077-015
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:25:19 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 20:45:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	99	96404	25.0	
* 2 Chlorobenzene-d5	82	7.237	7.230	0.006	87	198738	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	217867	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.396	4.389	0.007	92	173941	24.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.652	4.645	0.007	100	91224	24.3	
$ 5 Toluene-d8 (Surr)	98	6.084	6.089	0.000	94	439126	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.194	0.001	95	156370	25.4	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43		2.573				ND	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83		4.261				ND	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

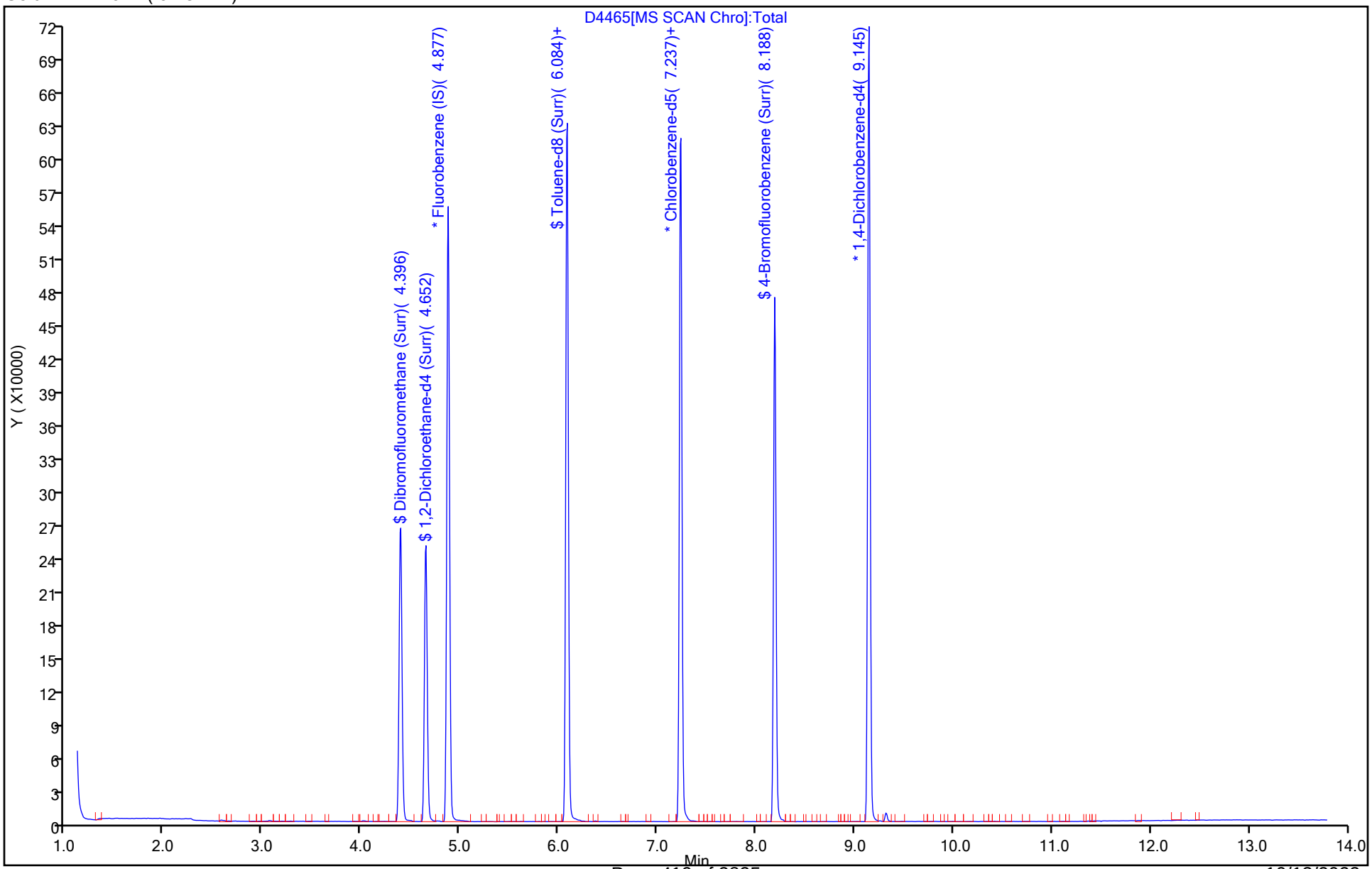
Report Date: 02-Oct-2023 20:45:09 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4465.d

Injection Date:	02-Oct-2023 20:09:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-7	Lab Sample ID:	480-213196-7	Worklist Smp#:	15
Client ID:	SW-E-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4465.d
Lims ID: 480-213196-A-7
Client ID: SW-E-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 20:09:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-7
Misc. Info.: 480-0114077-015
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:25:19 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 20:45:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.4	97.70
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.3	97.18
$ 5 Toluene-d8 (Surr)	25.0	24.3	97.07
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.4	101.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-G-09282023 | Lab Sample ID: 480-213196-8

Matrix: Water | Lab File ID: D4466.d

Analysis Method: 8260C | Date Collected: 09/28/2023 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 20:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-G-09282023 | Lab Sample ID: 480-213196-8

Matrix: Water | Lab File ID: D4466.d

Analysis Method: 8260C | Date Collected: 09/28/2023 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 20:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4466.d
Lims ID: 480-213196-A-8
Client ID: SW-G-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 20:31:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-8
Misc. Info.: 480-0114077-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:47:22 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 20:57:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	98	88897	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	188972	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	96	202219	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.389	0.000	92	158551	24.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.645	4.645	0.000	100	85755	24.8	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	95	405729	23.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.187	8.187	0.000	94	146269	25.0	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43		2.573				ND	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83		4.261				ND	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

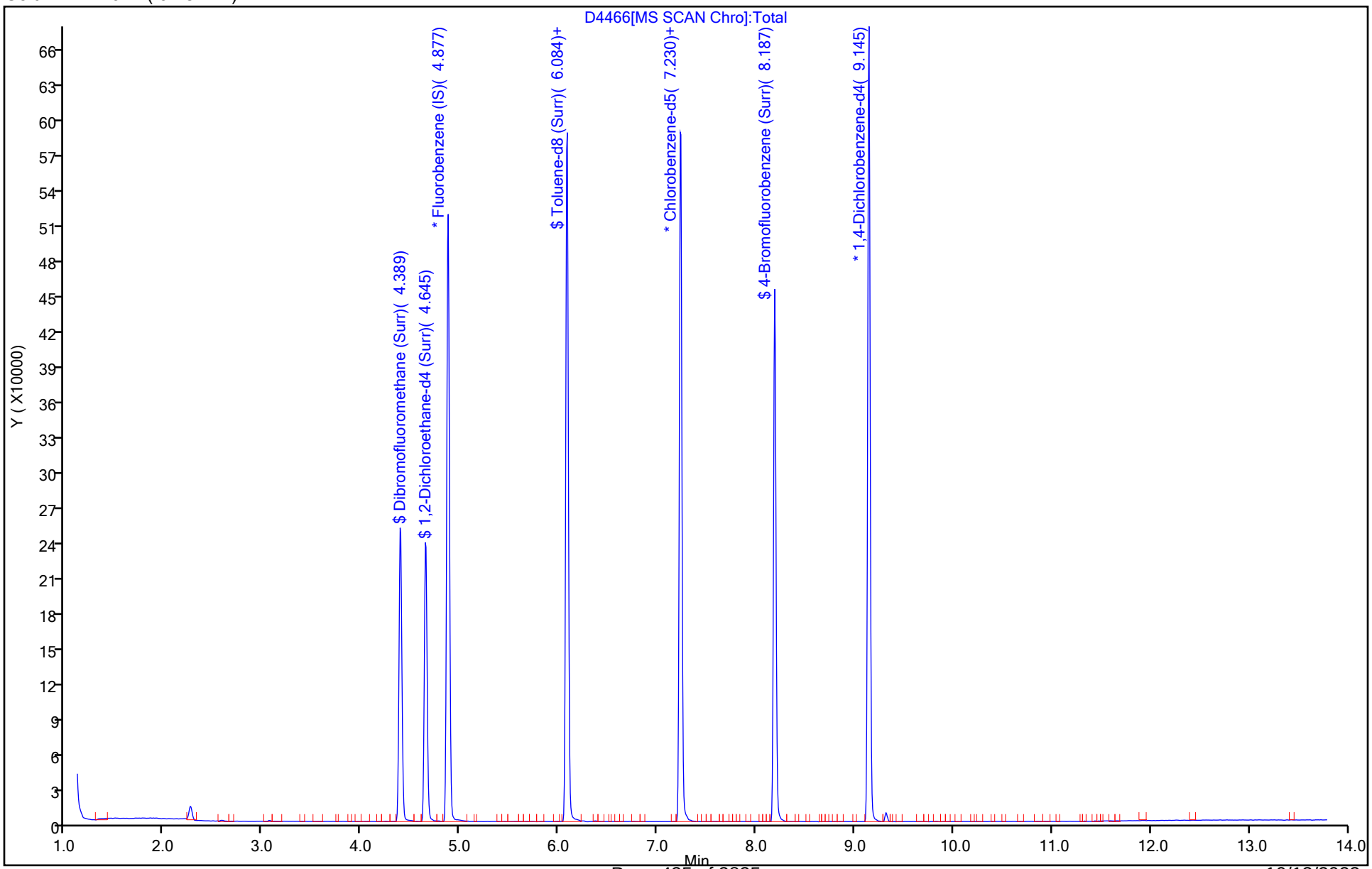
Report Date: 02-Oct-2023 20:57:21 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4466.d

Injection Date:	02-Oct-2023 20:31:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-8	Lab Sample ID:	480-213196-8	Worklist Smp#:	16
Client ID:	SW-G-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4466.d
Lims ID: 480-213196-A-8
Client ID: SW-G-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 20:31:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-8
Misc. Info.: 480-0114077-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:47:22 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 20:57:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.1	96.58
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.8	99.07
$ 5 Toluene-d8 (Surr)	25.0	23.6	94.32
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.0	99.97

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-4-09282023 | Lab Sample ID: 480-213196-9

Matrix: Water | Lab File ID: D4467.d

Analysis Method: 8260C | Date Collected: 09/28/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 20:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	5.4	J	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	0.58	J	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-4-09282023 | Lab Sample ID: 480-213196-9

Matrix: Water | Lab File ID: D4467.d

Analysis Method: 8260C | Date Collected: 09/28/2023 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 20:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4467.d
Lims ID: 480-213196-A-9
Client ID: EB-4-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 20:53:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-9
Misc. Info.: 480-0114077-017
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 19:09:51 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 21:11:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	98	90613	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	187541	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	206178	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.396	4.389	0.007	92	164721	24.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.652	4.645	0.007	100	87588	24.8	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	409156	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.188	0.001	94	144578	24.9	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43	2.585	2.573	0.012	98	12325	5.44	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83	4.261	4.261	0.000	92	6217	0.5795	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

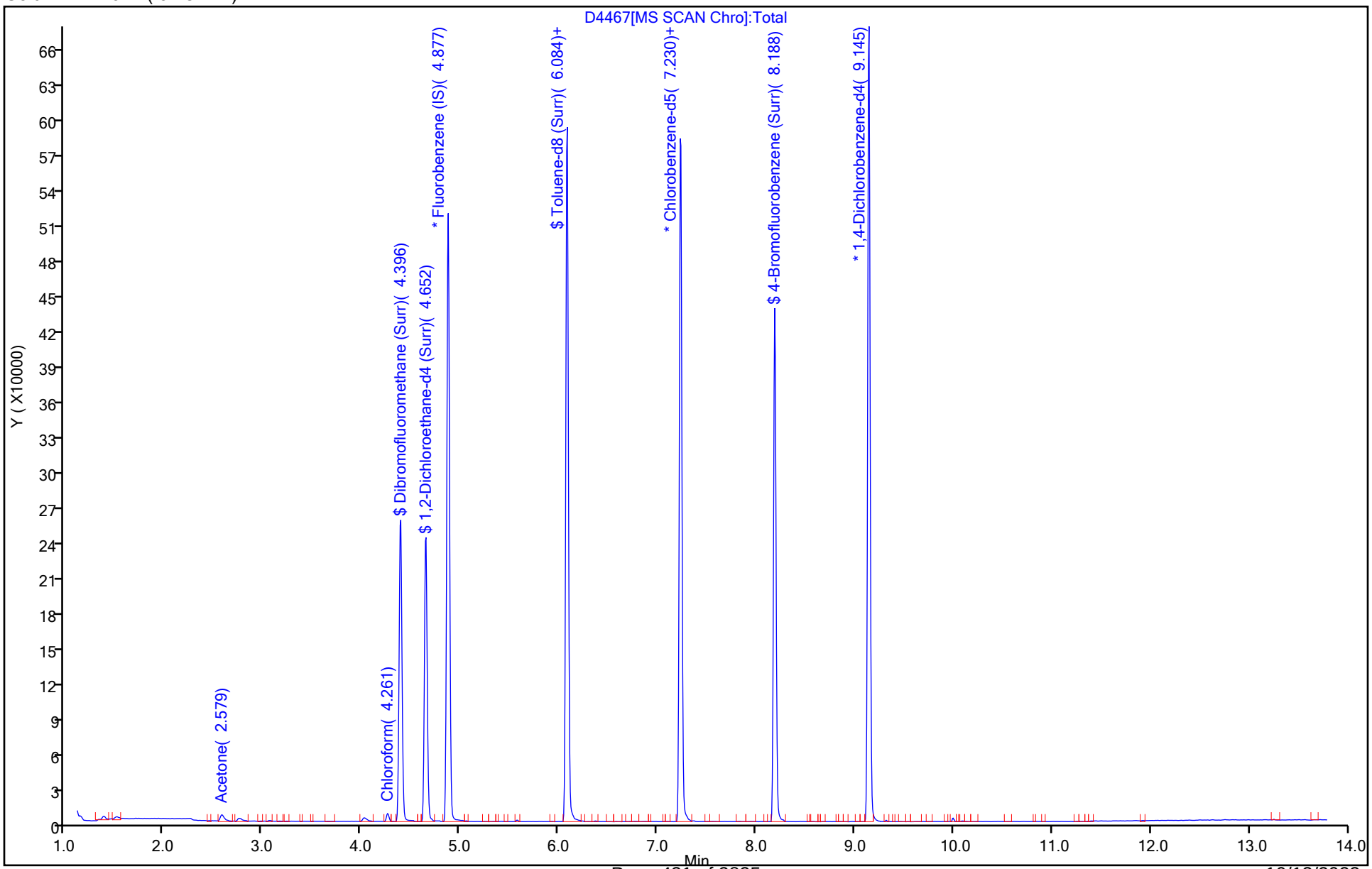
Report Date: 02-Oct-2023 21:11:36 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4467.d

Injection Date:	02-Oct-2023 20:53:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-9	Lab Sample ID:	480-213196-9	Worklist Smp#:	17
Client ID:	EB-4-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4467.d
Lims ID: 480-213196-A-9
Client ID: EB-4-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 20:53:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-9
Misc. Info.: 480-0114077-017
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 19:09:51 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 21:11:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.6	98.44
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.8	99.27
$ 5 Toluene-d8 (Surr)	25.0	24.0	95.84
$ 6 4-Bromofluorobenzene (Surr)	25.0	24.9	99.57

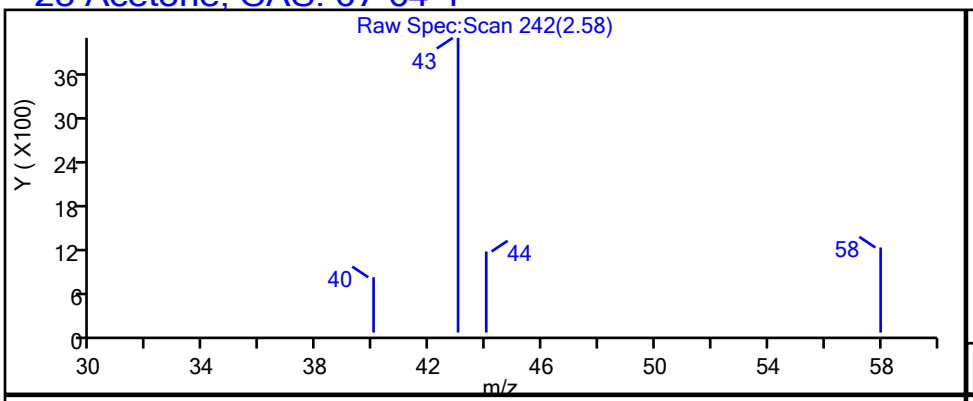
Report Date: 02-Oct-2023 21:11:36 Chrom Revision: 2.3 22-Sep-2023 11:33:50

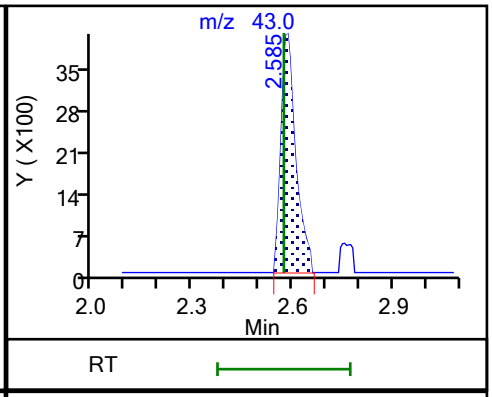
Eurofins Buffalo

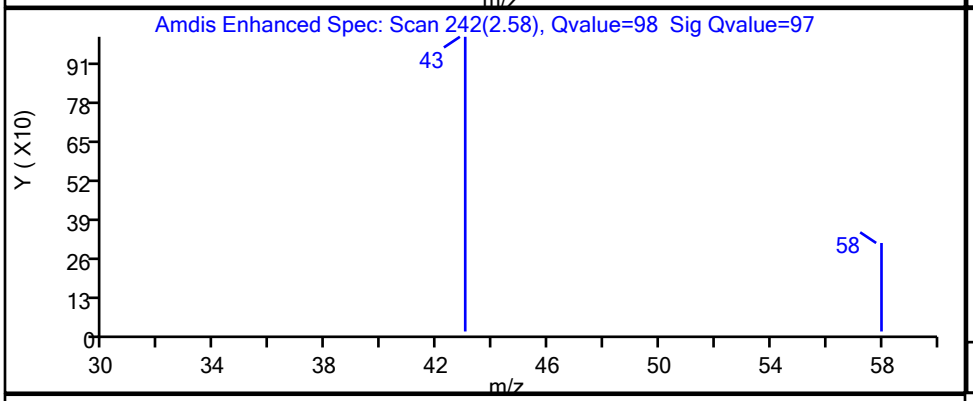
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4467.d

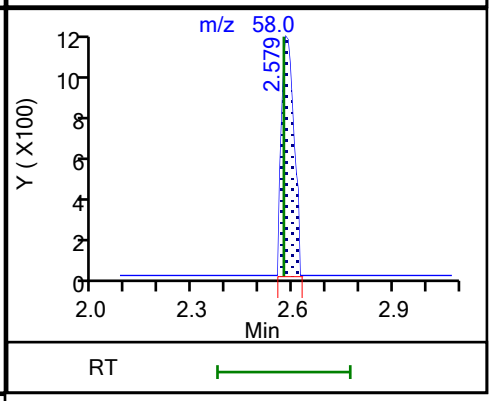
Injection Date:	02-Oct-2023 20:53:30	Instrument ID:	HP5975D		
Lims ID:	480-213196-A-9	Lab Sample ID:	480-213196-9		
Client ID:	EB-4-09282023				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

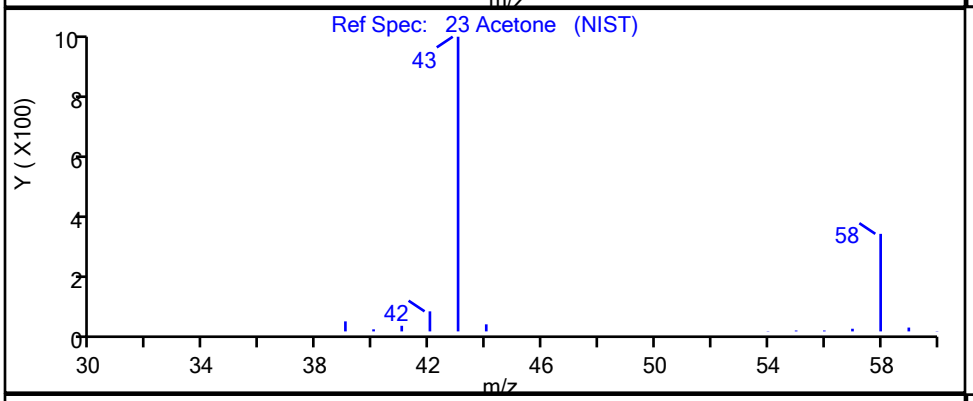
23 Acetone, CAS: 67-64-1

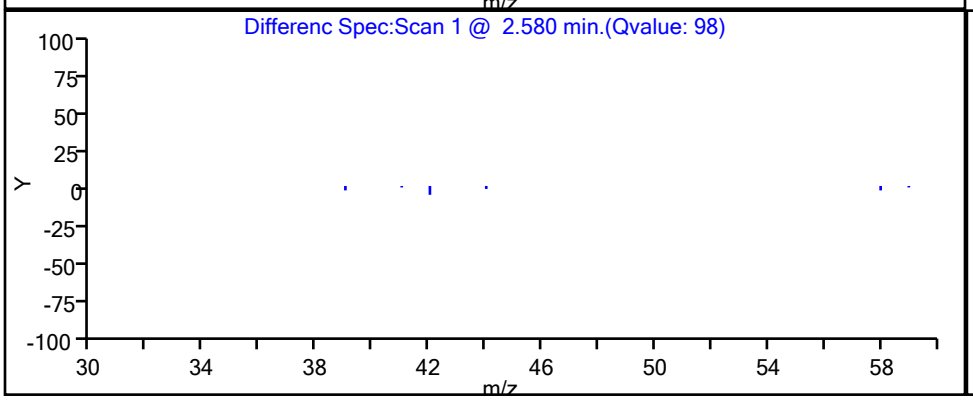


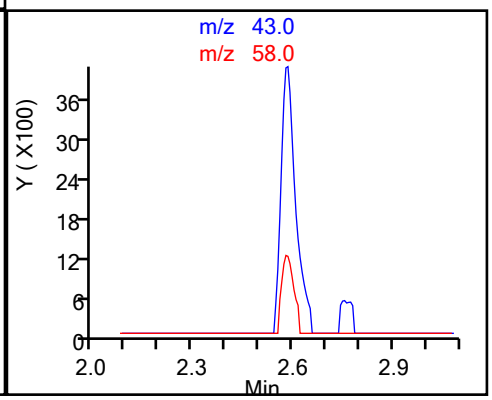












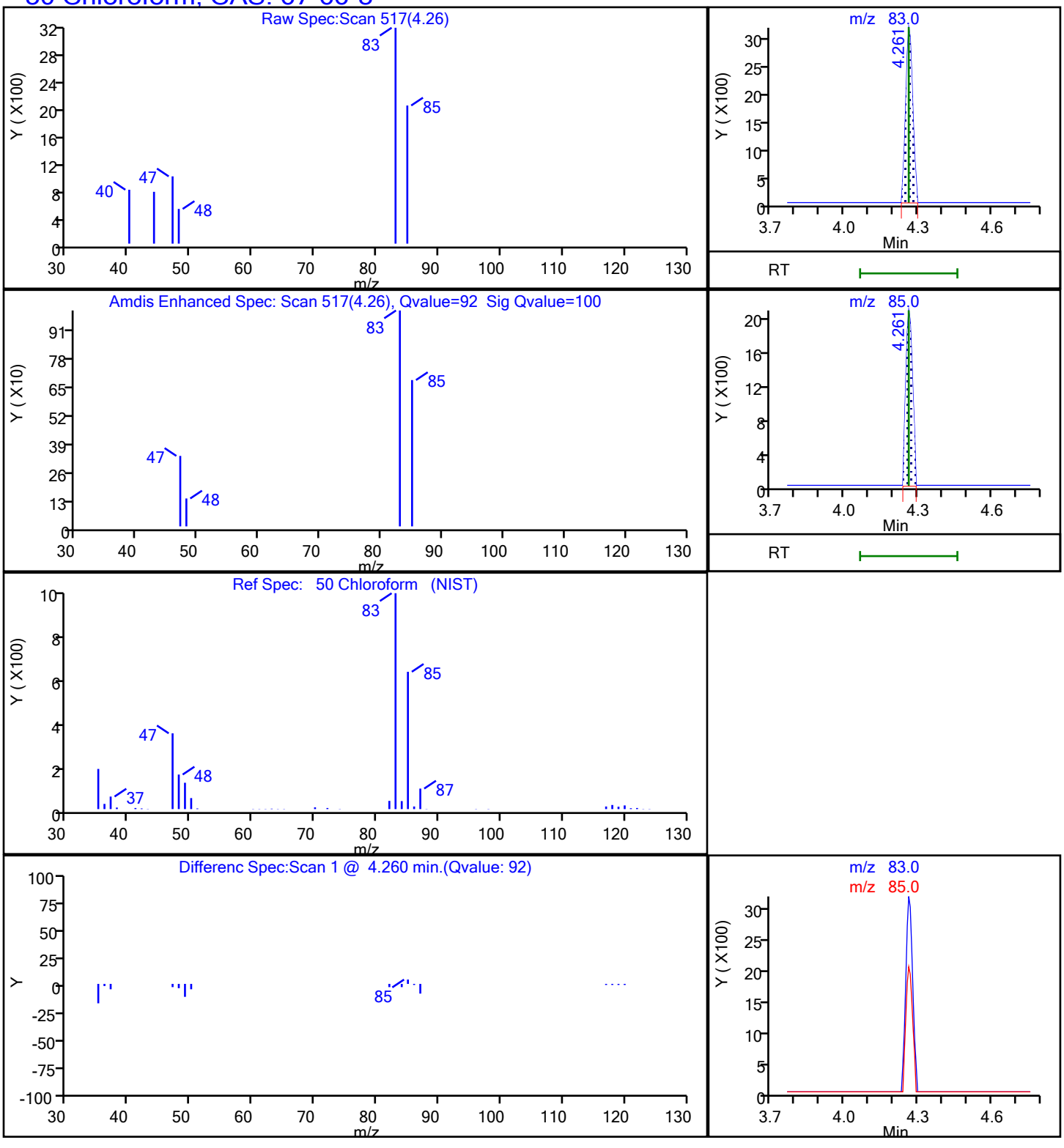
Report Date: 02-Oct-2023 21:11:36 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4467.d

Injection Date:	02-Oct-2023 20:53:30	Instrument ID:	HP5975D		
Lims ID:	480-213196-A-9	Lab Sample ID:	480-213196-9		
Client ID:	EB-4-09282023				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



10/13/2023
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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: TB-4-09282023 | Lab Sample ID: 480-213196-10

Matrix: Water | Lab File ID: D4468.d

Analysis Method: 8260C | Date Collected: 09/28/2023 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 21:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: TB-4-09282023 | Lab Sample ID: 480-213196-10

Matrix: Water | Lab File ID: D4468.d

Analysis Method: 8260C | Date Collected: 09/28/2023 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 21:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4468.d
Lims ID: 480-213196-A-10
Client ID: TB-4-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 21:15:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-10
Misc. Info.: 480-0114077-018
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 19:31:25 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 21:33:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	98	93337	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	195719	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	214782	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.389	0.000	92	165060	23.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.645	0.001	100	86841	23.9	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	419330	23.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.188	0.001	95	153003	25.2	
10 Dichlorodifluoromethane	85		1.177				ND	
12 Chloromethane	50		1.341				ND	
13 Vinyl chloride	62		1.427				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.780				ND	
17 Trichlorofluoromethane	101		2.006				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469				ND	
22 1,1-Dichloroethene	96		2.469				ND	
23 Acetone	43	2.579	2.573	0.006	95	4554	1.95	
26 Carbon disulfide	76		2.652				ND	
27 Methyl acetate	43		2.853				ND	
30 Methylene Chloride	84		2.938				ND	
32 Methyl tert-butyl ether	73		3.134				ND	
34 trans-1,2-Dichloroethene	96		3.146				ND	
39 1,1-Dichloroethane	63		3.518				ND	
45 cis-1,2-Dichloroethene	96		3.999				ND	
43 2-Butanone (MEK)	43		4.024				ND	
50 Chloroform	83		4.261				ND	
51 1,1,1-Trichloroethane	97		4.359				ND	
52 Cyclohexane	56		4.371				ND	
55 Carbon tetrachloride	117		4.475				ND	
57 Benzene	78		4.658				ND	
58 1,2-Dichloroethane	62		4.706				ND	
62 Trichloroethene	95		5.151				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.255				ND	
65 1,2-Dichloropropane	63		5.347				ND	
68 Dichlorobromomethane	83		5.572				ND	
72 cis-1,3-Dichloropropene	75		5.901				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011				ND	
74 Toluene	92		6.133				ND	
77 trans-1,3-Dichloropropene	75		6.346				ND	
79 1,1,2-Trichloroethane	83		6.493				ND	
81 Tetrachloroethene	166		6.554				ND	
80 2-Hexanone	43		6.657				ND	
83 Chlorodibromomethane	129		6.804				ND	
84 Ethylene Dibromide	107		6.895				ND	
87 Chlorobenzene	112		7.255				ND	
88 Ethylbenzene	91		7.322				ND	
90 m-Xylene & p-Xylene	106		7.413				ND	
91 o-Xylene	106		7.742				ND	
92 Styrene	104		7.761				ND	
95 Bromoform	173		7.956				ND	
94 Isopropylbenzene	105		8.029				ND	
97 1,1,2,2-Tetrachloroethane	83		8.340				ND	
111 1,3-Dichlorobenzene	146		9.090				ND	
113 1,4-Dichlorobenzene	146		9.163				ND	
116 1,2-Dichlorobenzene	146		9.486				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163				ND	
119 1,2,4-Trichlorobenzene	180		10.827				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

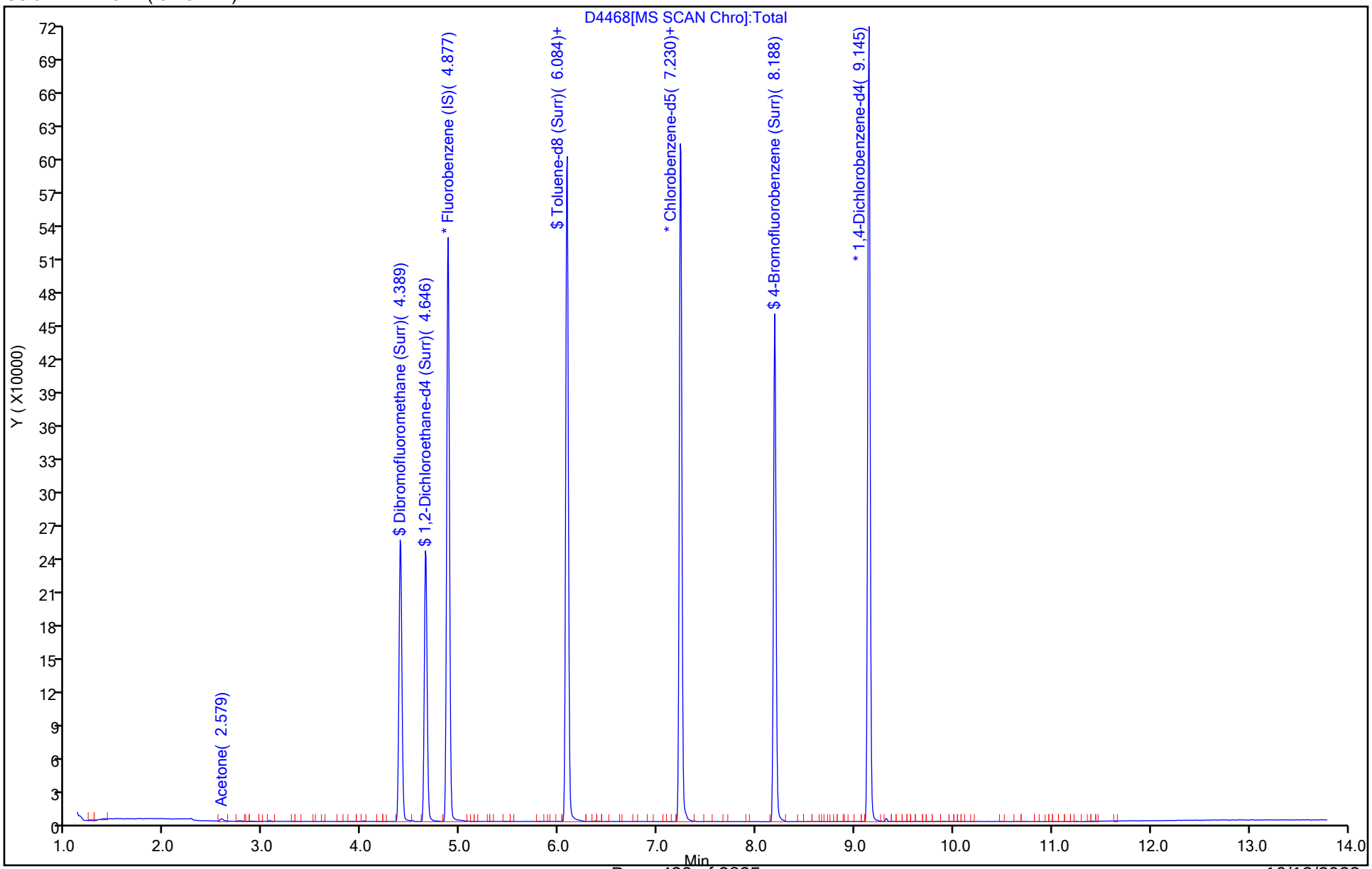
Report Date: 02-Oct-2023 21:34:00 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4468.d

Injection Date:	02-Oct-2023 21:15:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-213196-A-10	Lab Sample ID:	480-213196-10	Worklist Smp#:	18
Client ID:	TB-4-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4468.d
Lims ID: 480-213196-A-10
Client ID: TB-4-09282023
Sample Type: Client
Inject. Date: 02-Oct-2023 21:15:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213196-A-10
Misc. Info.: 480-0114077-018
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 19:31:25 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 21:33:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.9	95.76
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.9	95.56
$ 5 Toluene-d8 (Surr)	25.0	23.5	94.12
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.2	100.97

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 Calibration End Date: 09/07/2023 18:19 Calibration ID: 45326

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-682635/13	D3481.d
Level 2	IC 480-682635/14	D3482.d
Level 3	IC 480-682635/15	D3483.d
Level 4	IC 480-682635/16	D3484.d
Level 5	IC 480-682635/17	D3485.d
Level 6	ICIS 480-682635/18	D3486.d
Level 7	IC 480-682635/19	D3487.d
Level 8	IC 480-682635/20	D3488.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 2.3980	1.7035 2.4826	1.7598 2.4063	2.0743	1.8071	Ave		2.0902			0.1000	16.2		20.0			
Chloromethane	3.0063 3.1987	3.2093 3.1814	2.9112 3.0478	3.0548	2.8357	Ave		3.0557			0.1000	4.5		20.0			
Vinyl chloride	1.8333 2.6225	2.2332 2.5968	2.1915 2.4731	2.3668	2.2039	Ave		2.3151			0.1000	11.2		20.0			
Butadiene	+++++ 2.4112	1.9969 2.4178	1.9240 2.2902	2.1860	1.9624	Ave		2.1698				9.7		20.0			
Bromomethane	1.2125 1.5139	1.5732 1.5778	1.2153 1.4847	1.2116	1.2971	Ave		1.3857			0.1000	12.1		20.0			
Chloroethane	0.9597 1.1693	1.0810 1.1924	1.0408 1.1200	1.0873	1.0488	Ave		1.0874			0.1000	6.8		20.0			
Trichlorofluoromethane	+++++ 2.5476	1.6093 2.3857	1.7814 2.4244	2.1328	1.9636	Ave		2.1207			0.1000	16.6		20.0			
Dichlorofluoromethane	2.2151 2.9145	2.4676 2.9093	2.4490 2.7490	2.5758	2.5249	Ave		2.6006				9.3		20.0			
Ethyl ether	1.3082 1.4920	1.3937 1.4788	1.3051 1.4139	1.3878	1.3493	Ave		1.3911				5.0		20.0			
Acrolein	0.1592 0.1834	0.1763 0.1814	0.1640 0.1782	0.1747	0.1724	Ave		0.1737				4.8		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.7576	1.2104 1.8176	1.4494 1.6776	1.4401	1.3693	Ave		1.5317			0.1000	14.6		20.0			
1,1-Dichloroethene	1.0245 1.5621	1.2265 1.5562	1.2692 1.4607	1.2387	1.2327	Ave		1.3213			0.1000	14.2		20.0			
Acetone	0.7078 0.6270	0.6613 0.6112	0.5992 0.5847	0.6089	0.5961	Ave		0.6245			0.1000	6.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 Calibration End Date: 09/07/2023 18:19 Calibration ID: 45326

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	2.7854 3.6631	3.2426 3.6982	3.3107 3.3960	3.1499	3.1509	Ave		3.2996				9.0		20.0			
Carbon disulfide	+++++ 5.1571	4.0548 5.1265	4.1997 4.7196	4.0491	4.0851	Ave		4.4846			0.1000	11.3		20.0			
Allyl chloride	2.5536 2.8064	2.3615 2.7145	2.4621 2.5743	2.3211	2.3994	Ave		2.5241				6.8		20.0			
Methyl acetate	1.3665 1.5111	1.4738 1.4620	1.3847 1.4391	1.4961	1.4724	Ave		1.4507			0.1000	3.5		20.0			
Methylene Chloride	1.5910 1.7648	1.7196 1.7213	1.6471 1.6204	1.5871	1.5881	Lin1	-0.017	1.6640			0.1000	4.4			0.9990		0.9900
2-Methyl-2-propanol	+++++ 0.2258	0.1857 0.2332	0.1820 0.2228	0.1981	0.2099	Ave		0.2082				9.7		20.0			
Methyl tert-butyl ether	3.9460 4.3824	4.3194 4.2947	4.0029 4.0791	4.0534	4.0675	Ave		4.1432			0.1000	4.0		20.0			
trans-1,2-Dichloroethene	+++++ 1.6840	1.4290 1.6557	1.4795 1.5403	1.4225	1.4283	Ave		1.5199			0.1000	7.3		20.0			
Acrylonitrile	0.6735 0.7583	0.7274 0.7360	0.6972 0.7036	0.7467	0.7332	Ave		0.7220				3.9		20.0			
Hexane	+++++ 2.3548	1.6725 2.2839	1.9896 2.0693	1.9068	1.7515	Ave		2.0041				12.7		20.0			
1,1-Dichloroethane	2.8321 3.2600	2.9152 3.1501	2.9638 2.9324	2.8366	2.8236	Ave		2.9642			0.2000	5.4		20.0			
Vinyl acetate	2.6459 3.6027	2.8465 3.6912	2.8438 3.6355	3.1575	3.1589	Ave		3.1978				12.7		20.0			
2,2-Dichloropropane	+++++ 1.8103	1.5071 1.7870	1.5290 1.6354	1.4808	1.4939	Ave		1.6062				8.8		20.0			
cis-1,2-Dichloroethene	+++++ 1.8518	1.5717 1.8438	1.6335 1.7188	1.5901	1.6027	Ave		1.6875			0.1000	7.1		20.0			
2-Butanone (MEK)	0.7490 0.8829	0.8424 0.8796	0.7974 0.8393	0.8072	0.8232	Ave		0.8276			0.1000	5.3		20.0			
Chlorobromomethane	+++++ 1.1099	1.0921 1.0966	0.9833 1.0349	0.9753	0.9995	Ave		1.0417				5.5		20.0			
Tetrahydrofuran	0.4358 0.5934	0.5856 0.5838	0.5480 0.5569	0.5621	0.5687	Ave		0.5543				9.1		20.0			
Chloroform	3.1610 3.1187	3.0774 2.9951	2.9464 2.8008	2.7796	2.7995	Ave		2.9598			0.2000	5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 Calibration End Date: 09/07/2023 18:19 Calibration ID: 45326

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	1.7509 2.4941	2.0230 2.4574	2.1080 2.2778	2.0191	2.0266	Ave		2.1446			0.1000	11.7		20.0			
Cyclohexane	+++++ 2.9244	2.1669 2.8020	2.3745 2.5848	2.3505	2.2154	Ave		2.4884			0.1000	11.7		20.0			
Carbon tetrachloride	+++++ 2.1534	1.5580 2.2307	1.7181 2.1077	1.6249	1.6494	Ave		1.8632			0.1000	15.4		20.0			
1,1-Dichloropropene	+++++ 2.1349	1.8390 2.0779	1.8044 1.8979	1.7262	1.7381	Ave		1.8884				8.5		20.0			
Benzene	4.8401 5.6366	5.1017 5.5310	5.0602 5.1709	4.9568	4.9693	Ave		5.1583			0.5000	5.5		20.0			
Isobutyl alcohol	+++++ 0.0789	0.0609 0.0864	0.0581 0.0833	0.0619	0.0712	Ave		0.0715				16.1		20.0			
1,2-Dichloroethane	2.5279 2.5544	2.6102 2.4715	2.4919 2.3088	2.4295	2.4155	Ave		2.4762			0.1000	3.8		20.0			
n-Heptane	+++++ 2.2710	1.7808 2.1742	1.7126 1.9788	1.7937	1.7544	Ave		1.9236				11.6		20.0			
Trichloroethene	+++++ 1.7017	1.4302 1.6964	1.5134 1.5913	1.4074	1.4588	Ave		1.5427			0.2000	7.9		20.0			
Methylcyclohexane	+++++ 2.4559	1.7399 2.4187	2.0437 2.2576	1.9665	1.8734	Ave		2.1079			0.1000	13.1		20.0			
1,2-Dichloropropane	+++++ 1.5883	1.4233 1.6007	1.4033 1.5139	1.3715	1.4417	Ave		1.4775			0.1000	6.2		20.0			
1,4-Dioxane	+++++ 0.0062	+++++ 0.0066	0.0049 0.0059	0.0048	0.0060	Ave		0.0058				12.5		20.0			
Dibromomethane	+++++ 1.2147	1.1232 1.2022	1.1231 1.1533	1.1114	1.1181	Ave		1.1494			0.1000	3.7		20.0			
Bromodichloromethane	1.6724 2.1571	1.8503 2.2012	1.7764 2.1341	1.8231	1.9069	Ave		1.9402			0.2000	10.2		20.0			
2-Chloroethyl vinyl ether	+++++ 0.9783	0.6739 1.0230	0.7506 1.0175	0.7914	0.8515	Ave		0.8694				16.0		20.0			
cis-1,3-Dichloropropene	1.5843 2.3176	1.8018 2.3953	1.8486 2.3552	1.8880	1.9876	Ave		2.0223			0.2000	14.8		20.0			
4-Methyl-2-pentanone (MIBK)	0.7047 0.8060	0.7204 0.7959	0.7195 0.7570	0.7868	0.7983	Ave		0.7611			0.1000	5.4		20.0			
Toluene	1.3591 1.5063	1.4034 1.5280	1.3900 1.4323	1.3908	1.3965	Ave		1.4258			0.4000	4.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 Calibration End Date: 09/07/2023 18:19 Calibration ID: 45326

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	0.6296 0.9374	0.7116 0.9728	0.7465 0.9476	0.7678	0.8356	Ave		0.8186			0.1000	15.3		20.0			
Ethyl methacrylate	+++++ 0.6691	0.4409 0.6861	0.5118 0.6677	0.5690	0.6133	Ave		0.5940				15.5		20.0			
1,1,2-Trichloroethane	+++++ 0.5290	0.4777 0.5281	0.4744 0.5045	0.4959	0.5036	Ave		0.5019			0.1000	4.3		20.0			
Tetrachloroethene	+++++ 0.7960	0.7003 0.8113	0.7286 0.7386	0.6874	0.6963	Ave		0.7369			0.2000	6.7		20.0			
1,3-Dichloropropane	0.7510 0.9249	0.8787 0.9375	0.8490 0.8933	0.8772	0.8868	Ave		0.8748				6.5		20.0			
2-Hexanone	0.3757 0.4709	0.4871 0.4640	0.4671 0.4330	0.4857	0.4825	Ave		0.4583			0.1000	8.2		20.0			
Dibromochloromethane	0.6015 0.8033	0.6538 0.8522	0.6328 0.8414	0.6888	0.7238	Ave		0.7247			0.1000	13.4		20.0			
1,2-Dibromoethane	0.5523 0.7309	0.6837 0.7449	0.6452 0.7089	0.6873	0.7048	Ave		0.6823				8.9		20.0			
Chlorobenzene	1.5115 1.8069	1.6773 1.8236	1.6546 1.7217	1.6340	1.6459	Ave		1.6844			0.5000	6.0		20.0			
Ethylbenzene	2.2071 2.7650	2.3864 2.7728	2.5030 2.6053	2.4791	2.4970	Ave		2.5270			0.1000	7.5		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.7260	0.5524 0.7504	0.5746 0.7246	0.6296	0.6558	Ave		0.6591				11.8		20.0			
m,p-Xylene	+++++ 1.0825	0.9276 1.0988	0.9986 0.9999	0.9828	0.9952	Ave		1.0122			0.1000	5.9		20.0			
o-Xylene	0.9420 1.1613	1.0277 1.1798	1.0583 1.1097	1.0629	1.0874	Ave		1.0787			0.3000	7.0		20.0			
Styrene	+++++ 1.7302	1.4509 1.7738	1.5297 1.6760	1.5811	1.6096	Ave		1.6216			0.3000	7.0		20.0			
Bromoform	0.3755 0.5161	0.3795 0.5761	0.3839 0.5838	0.4068	0.4475	Ave		0.4587			0.1000	19.2		20.0			
Isopropylbenzene	+++++ 2.9112	2.2382 2.9467	2.2662 2.8047	2.4335	2.5320	Ave		2.5904			0.1000	11.5		20.0			
Bromobenzene	0.6550 0.8396	0.7343 0.8644	0.7337 0.8483	0.7283	0.7400	Ave		0.7680				9.6		20.0			
1,1,2,2-Tetrachloroethane	0.7510 0.8878	0.8104 0.9004	0.7555 0.8763	0.8455	0.8524	Ave		0.8349			0.3000	6.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 Calibration End Date: 09/07/2023 18:19 Calibration ID: 45326

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	+++++ 3.2992	2.6308 3.3179	2.6619 3.1328	2.7655	2.8636	Ave		2.9531				9.9		20.0			
1,2,3-Trichloropropane	+++++ 0.2272	0.1901 0.2283	0.1937 0.2188	0.2138	0.2214	Ave		0.2133				7.2		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2359	0.1652 0.2404	0.1737 0.2256	0.1988	0.2147	Ave		0.2077				14.3		20.0			
2-Chlorotoluene	0.6122 0.7504	0.6324 0.7549	0.6309 0.7218	0.6455	0.6804	Ave		0.6786				8.4		20.0			
1,3,5-Trimethylbenzene	1.7996 2.4405	1.9296 2.4658	1.9797 2.3499	2.1022	2.1596	Ave		2.1533				11.5		20.0			
4-Chlorotoluene	0.5635 0.7204	0.6076 0.7141	0.5952 0.6822	0.6265	0.6494	Ave		0.6449				8.8		20.0			
tert-Butylbenzene	+++++ 0.5105	0.3488 0.5217	0.3921 0.5160	0.4029	0.4241	Ave		0.4452				15.7		20.0			
1,2,4-Trimethylbenzene	1.9878 2.5079	2.0986 2.5058	2.1157 2.4184	2.1608	2.2658	Ave		2.2576				8.8		20.0			
sec-Butylbenzene	+++++ 3.1958	2.4054 3.2453	2.4965 3.1230	2.6879	2.7652	Ave		2.8456				12.1		20.0			
4-Isopropyltoluene	+++++ 2.7985	2.1375 2.8665	2.2850 2.7420	2.3665	2.4393	Ave		2.5193				11.2		20.0			
1,3-Dichlorobenzene	1.1974 1.4645	1.3340 1.4728	1.3059 1.3981	1.3357	1.3341	Ave		1.3553			0.6000	6.6		20.0			
1,4-Dichlorobenzene	1.3446 1.4622	1.3610 1.4665	1.3354 1.3947	1.3543	1.3807	Ave		1.3874			0.5000	3.7		20.0			
n-Butylbenzene	+++++ 2.4671	1.9395 2.4462	2.0133 2.3558	2.0952	2.1522	Ave		2.2099				9.6		20.0			
1,2-Dichlorobenzene	1.2915 1.4947	1.3735 1.5041	1.3750 1.4578	1.4163	1.4103	Ave		1.4154			0.4000	5.0		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1632	0.1183 0.1742	0.1106 0.1785	0.1412	0.1523	Ave		0.1483			0.0500	17.8		20.0			
1,2,4-Trichlorobenzene	1.0674 1.2427	1.0835 1.3062	1.1173 1.2464	1.1702	1.2033	Ave		1.1796			0.2000	7.2		20.0			
Hexachlorobutadiene	0.3695 0.5853	0.4695 0.6272	0.4800 0.6021	0.5171	0.5110	Ave		0.5202				16.1		20.0			
Naphthalene	2.5313 3.0480	2.8180 3.1413	2.7098 2.9967	3.0005	3.0383	Ave		2.9105				7.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 Calibration End Date: 09/07/2023 18:19 Calibration ID: 45326

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	1.1214 1.2206	1.1268 1.2819	1.1316 1.1897	1.2246	1.2059	Ave		1.1878				4.8		20.0			
Dibromofluoromethane (Surr)	1.8156 1.8771	1.9310 1.8282	1.8730 1.7693	1.8586	1.8207	Ave		1.8467				2.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.9700 0.9843	1.0088 0.9662	0.9845 0.9350	0.9698	0.9708	Ave		0.9737				2.1		20.0			
Toluene-d8 (Surr)	2.2891 2.2242	2.3256 2.2652	2.2913 2.1911	2.3076	2.3161	Ave		2.2763				2.1		20.0			
4-Bromofluorobenzene (Surr)	0.7441 0.7557	0.7767 0.7867	0.8013 0.7688	0.7835	0.7774	Ave		0.7743				2.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-682635/13	D3481.d
Level 2	IC 480-682635/14	D3482.d
Level 3	IC 480-682635/15	D3483.d
Level 4	IC 480-682635/16	D3484.d
Level 5	IC 480-682635/17	D3485.d
Level 6	ICIS 480-682635/18	D3486.d
Level 7	IC 480-682635/19	D3487.d
Level 8	IC 480-682635/20	D3488.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 298323	9331 601591	19908 1149803	55595	94892	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	6315 397924	17579 770923	32934 1456372	81877	148906	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	3851 326243	12232 629247	24792 1181767	63437	115729	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	+++++ 299965	10938 585871	21766 1094331	58590	103049	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	2547 188329	8617 382337	13748 709430	32473	68113	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	2016 145469	5921 288952	11775 535200	29143	55075	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	+++++ 316930	8815 578095	20153 1158482	57163	103109	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	4653 362578	13516 704981	27705 1313604	69038	132581	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	2748 185613	7634 358331	14764 675638	37197	70850	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	1672 114082	4827 219831	9276 425815	23417	45261	2.00 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 218646	6630 440448	16397 801638	38597	71901	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	2152 194329	6718 377095	14358 697986	33200	64728	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	7434 389982	18112 740494	33894 1397072	81599	156514	2.00 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	5851 455696	17761 896148	37454 1622765	84424	165453	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	+++++	22210	47511	108525	214509	+++++	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			641563	1242248	2255193			25.0	50.0	100		
Allyl chloride	FB	Ave	5364 349128	12935 657775	27854 1230107	62212	125993	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	5741 375971	16145 708534	31330 1375366	80200	154629	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	3342 219543	9419 417109	18633 774288	42537	83393	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	+++++ 280852	10173 565035	20595 1064510	53104	110216	+++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	8289 545178	23659 1040695	45284 1949152	108642	213584	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 209498	7827 401215	16737 736002	38126	74998	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	14147 943331	39843 1783521	78869 3362081	200142	385011	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 292939	9161 553434	22508 988817	51108	91973	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	5949 405558	15968 763322	33529 1401198	76027	148269	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	11116 896383	31183 1788927	64343 3474367	169256	331755	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 225201	8255 433030	17297 781477	39688	78447	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 230366	8609 446779	18480 821291	42618	84160	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	7867 549168	23072 1065762	45106 2005197	108171	216123	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	+++++ 138076	5982 265730	11124 494540	26141	52483	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	1831 147642	6415 282956	12399 532247	30129	59730	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	6640 387975	16856 725775	33332 1338322	74501	147001	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	3678 310270	11081 595467	23848 1088437	54116	106418	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	+++++ 363810	11869 678969	26862 1235123	63000	116334	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 267888	8534 540537	19437 1007125	43550	86611	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	+++++ 265592	10073 503516	20413 906914	46266	91269	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	10167 701204	27944 1340263	57246 2470884	132855	260941	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 245484	8341 523150	16441 995446	41459	93404	+++++ 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	5310 317779	14297 598882	28191 1103256	65116	126841	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	+++++ 282520	9754 526847	19375 945545	48076	92124	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	+++++ 211695	7834 411060	17121 760397	37721	76603	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	+++++ 305521	9530 586092	23120 1078774	52707	98371	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	+++++ 197585	7796 387876	15875 723392	36760	75706	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZd5	Ave	+++++ 32771	+++++ 68843	2257 121111	5073	12429	+++++ 500	+++++ 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	+++++ 151108	6152 291306	12706 551077	29788	58713	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	3513 268347	10135 533397	20096 1019772	48863	100132	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 121701	3691 247897	8492 486191	21211	44712	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	3328 288322	9869 580421	20913 1125412	50603	104372	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZd5	Ave	14311 1058293	39568 2064574	82240 3911485	206387	412342	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZd5	Ave	5520 395549	15416 792726	31774 1480149	72965	144269	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZd5	Ave	2557 246177	7817 504696	17064 979272	40280	86325	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZd5	Ave	+++++ 175713	4843 355923	11699 690004	29853	63361	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 138924	5247 273984	10845 521345	26018	52020	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZd5	Ave	+++++	7692	16656	36062	71930	+++++	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			209021	420916	763254			25.0	50.0	100		
1,3-Dichloropropane	CBNZd5	Ave	3050 242880	9652 486349	19407 923121	46019	91611	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZd5	Ave	7629 618350	26752 1203612	53390 2237172	127410	249246	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZd5	Ave	2443 210952	7182 442135	14466 869507	36134	74769	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZd5	Ave	2243 191948	7510 386451	14749 732546	36057	72811	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZd5	Ave	6139 474498	18424 946071	37823 1779189	85721	170029	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZd5	Ave	8964 726099	26213 1438518	57217 2692374	130055	257950	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	+++++ 190663	6068 389280	13134 748846	33027	67746	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZd5	Ave	+++++ 284279	10189 570050	22827 1033339	51558	102812	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZd5	Ave	3826 304961	11289 612092	24191 1146814	55763	112336	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZd5	Ave	+++++ 454364	15937 920247	34968 1732037	82947	166279	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZd5	Ave	1525 135540	4169 298895	8775 603300	21341	46226	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd4	Ave	+++++ 778440	27109 1545298	58548 2842599	138676	279674	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd4	Ave	2861 224502	8894 453298	18956 859706	41504	81739	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	3280 237390	9815 472200	19519 888088	48182	94154	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd4	Ave	+++++ 882192	31864 1739987	68771 3175087	157597	316297	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd4	Ave	+++++	2303	5005	12185	24453	+++++	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			60752	119715	221711			25.0	50.0	100		
trans-1,4-Dichloro-2-butene	DCBd4	Ave	+++++ 63066	2001 126078	4488 228602	11330	23710	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd4	Ave	2674 200654	7659 395874	16300 731572	36785	75151	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	7860 652567	23371 1293110	51145 2381588	119797	238536	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd4	Ave	2461 192628	7359 374501	15377 691363	35705	71724	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd4	Ave	+++++ 136504	4225 273612	10131 522972	22962	46844	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	8682 670597	25418 1314105	54659 2451029	123139	250263	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd4	Ave	+++++ 854552	29133 1701896	64497 3165112	153172	305431	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd4	Ave	+++++ 748312	25889 1503279	59032 2778968	134858	269429	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd4	Ave	5230 391603	16157 772387	33739 1416973	76117	147357	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd4	Ave	5873 390988	16484 769043	34499 1413528	77178	152509	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd4	Ave	+++++ 659681	23491 1282815	52014 2387653	119396	237721	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd4	Ave	5641 399675	16635 788769	35522 1477500	80713	155778	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 43629	1433 91377	2857 180925	8044	16825	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	4662 332300	13123 684975	28866 1263265	66688	132911	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd4	Ave	1614 156515	5686 328929	12401 610180	29466	56439	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd4	Ave	11056 815010	34131 1647347	70008 3037187	170989	335594	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	4898 326393	13648 672234	29234 1205723	69786	133200	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	238360 233522	264426 221501	264863 211356	249080	239009	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	127354 122452	138143 117062	139224 111690	129963	127443	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZd5	Ave	581062	638635	654701	605288	598168	25.0	25.0	25.0	25.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			584092	587584	566077			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZd 5	Ave	188877	213289	228954	205516	200783	25.0	25.0	25.0	25.0	25.0
			198442	204067	198612			25.0	25.0	25.0		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-682635/13	D3481.d
Level 2	IC 480-682635/14	D3482.d
Level 3	IC 480-682635/15	D3483.d
Level 4	IC 480-682635/16	D3484.d
Level 5	IC 480-682635/17	D3485.d
Level 6	ICIS 480-682635/18	D3486.d
Level 7	IC 480-682635/19	D3487.d
Level 8	IC 480-682635/20	D3488.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++	-18.5						30				
Chloromethane	-1.6						30					
Vinyl chloride	-20.8						30					
Butadiene	+++++	-8.0						30				
Bromomethane	-12.5						30					
Chloroethane	-11.7						30					
Trichlorofluoromethane	+++++	-24.1						30				
Dichlorofluoromethane	-14.8						30					
Ethyl ether	-6.0						30					
Acrolein	-8.4						30					
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	-21.0						30				
1,1-Dichloroethene	-22.5						30					
Acetone	13.3						30					
Iodomethane	-15.6						30					
Carbon disulfide	+++++	-9.6						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	1.2						30					
Methyl acetate	-5.8						30					
Methylene Chloride	-1.9						30					
2-Methyl-2-propanol	+++++	-10.8						30				
Methyl tert-butyl ether	-4.8						30					
trans-1,2-Dichloroethene	+++++	-6.0						30				
Acrylonitrile	-6.7						30					
Hexane	+++++	-16.5						30				
1,1-Dichloroethane	-4.5						30					
Vinyl acetate	-17.3						30					
2,2-Dichloropropane	+++++	-6.2						30				
cis-1,2-Dichloroethene	+++++	-6.9						30				
2-Butanone (MEK)	-9.5						30					
Chlorobromomethane	+++++	4.8						30				
Tetrahydrofuran	-21.4						30					
Chloroform	6.8						30					
1,1,1-Trichloroethane	-18.4						30					
Cyclohexane	+++++	-12.9						30				
Carbon tetrachloride	+++++	-16.4						30				
1,1-Dichloropropene	+++++	-2.6						30				
Benzene	-6.2						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Isobutyl alcohol	+++++	-14.8						30				
1,2-Dichloroethane	2.1						30					
n-Heptane	+++++	-7.4						30				
Trichloroethene	+++++	-7.3						30				
Methylcyclohexane	+++++	-17.5						30				
1,2-Dichloropropane	+++++	-3.7						30				
1,4-Dioxane	+++++	+++++	-14.2						30			
Dibromomethane	+++++	-2.3						30				
Bromodichloromethane	-13.8						30					
2-Chloroethyl vinyl ether	+++++	-22.5						30				
cis-1,3-Dichloropropene	-21.7						30					
4-Methyl-2-pentanone (MIBK)	-7.4						30					
Toluene	-4.7						30					
trans-1,3-Dichloropropene	-23.1						30					
Ethyl methacrylate	+++++	-25.8						30				
1,1,2-Trichloroethane	+++++	-4.8						30				
Tetrachloroethene	+++++	-5.0						30				
1,3-Dichloropropane	-14.2						30					
2-Hexanone	-18.0						30					
Dibromochloromethane	-17.0						30					
1,2-Dibromoethane	-19.1						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-10.3						30					
Ethylbenzene	-12.7						30					
1,1,1,2-Tetrachloroethane	+++++	-16.2						30				
m,p-Xylene	+++++	-8.4						30				
o-Xylene	-12.7						30					
Styrene	+++++	-10.5						30				
Bromoform	-18.1						30					
Isopropylbenzene	+++++	-13.6						30				
Bromobenzene	-14.7						30					
1,1,2,2-Tetrachloroethane	-10.1						30					
N-Propylbenzene	+++++	-10.9						30				
1,2,3-Trichloropropane	+++++	-10.9						30				
trans-1,4-Dichloro-2-butene	+++++	-20.5						30				
2-Chlorotoluene	-9.8						30					
1,3,5-Trimethylbenzene	-16.4						30					
4-Chlorotoluene	-12.6						30					
tert-Butylbenzene	+++++	-21.6						30				
1,2,4-Trimethylbenzene	-12.0						30					
sec-Butylbenzene	+++++	-15.5						30				
4-Isopropyltoluene	+++++	-15.2						30				
1,3-Dichlorobenzene	-11.7						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 682635

SDG No.: 480-213061-1

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/07/2023 15:45 | Calibration End Date: 09/07/2023 18:19 | Calibration ID: 45326

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-3.1						30					
n-Butylbenzene	+++++	-12.2						30				
1,2-Dichlorobenzene	-8.8						30					
1,2-Dibromo-3-Chloropropane	+++++	-20.2						30				
1,2,4-Trichlorobenzene	-9.5						30					
Hexachlorobutadiene	-29.0						30					
Naphthalene	-13.0						30					
1,2,3-Trichlorobenzene	-5.6						30					
Dibromofluoromethane (Surr)	-1.7						30					
1,2-Dichloroethane-d4 (Surr)	-0.4						30					
Toluene-d8 (Surr)	0.6						30					
4-Bromofluorobenzene (Surr)	-3.9						30					

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Sep-2023 15:45:30 ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.4
Misc. Info.: 480-0113624-013
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:47:26 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 11:56:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	98	131287	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	253842	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	95	272982	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	92	238360	25.0	24.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	100	127354	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	6.096	6.097	-0.001	94	581062	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	93	188877	25.0	24.0	
10 Dichlorodifluoromethane	85	1.189	1.183	0.006	85	2065	0.4000	0.1881	
12 Chloromethane	50	1.353	1.354	-0.001	95	6315	0.4000	0.3935	
13 Vinyl chloride	62	1.445	1.439	0.006	59	3851	0.4000	0.3167	
144 Butadiene	54	1.451	1.451	0.000	80	3012	0.4000	0.2643	
14 Bromomethane	94	1.737	1.738	-0.001	67	2547	0.4000	0.3500	
15 Chloroethane	64	1.792	1.793	-0.001	86	2016	0.4000	0.3530	
16 Dichlorofluoromethane	67	2.018	2.018	0.000	93	4653	0.4000	0.3407	
17 Trichlorofluoromethane	101	1.993	2.024	-0.031	72	1257	0.4000	0.1129	M
18 Ethyl ether	59	2.274	2.274	0.000	97	2748	0.4000	0.3762	
20 Acrolein	56	2.445	2.439	0.006	0	1672	2.00	1.83	M
22 1,1-Dichloroethene	96	2.493	2.481	0.012	93	2152	0.4000	0.3101	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.487	2.481	0.006	58	1668	0.4000	0.2074	
23 Acetone	43	2.591	2.585	0.006	98	7434	2.00	2.27	
25 Iodomethane	142	2.640	2.640	0.000	95	5851	0.4000	0.3377	
26 Carbon disulfide	76	2.676	2.683	-0.007	98	6962	0.4000	0.2956	
28 3-Chloro-1-propene	41	2.823	2.823	0.000	88	5364	0.4000	0.4047	
27 Methyl acetate	43	2.871	2.865	0.006	0	5741	0.8000	0.7536	M
30 Methylene Chloride	84	2.957	2.957	0.000	96	3342	0.4000	0.3925	
31 2-Methyl-2-propanol	59	3.115	3.109	0.006	91	3310	4.00	3.03	
32 Methyl tert-butyl ether	73	3.152	3.146	0.006	97	8289	0.4000	0.3810	
34 trans-1,2-Dichloroethene	96	3.164	3.164	0.000	92	2491	0.4000	0.3121	
33 Acrylonitrile	53	3.213	3.207	0.006	0	14147	4.00	3.73	M
35 Hexane	57	3.341	3.341	0.000	90	2720	0.4000	0.2584	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.536	3.530	0.006	92	5949	0.4000	0.3822	
37 Vinyl acetate	43	3.591	3.579	0.012	0	11116	0.8000	0.6619	M
44 2,2-Dichloropropane	77	3.981	3.981	0.000	0	2768	0.4000	0.3282	M
45 cis-1,2-Dichloroethene	96	4.017	4.012	0.005	84	2769	0.4000	0.3125	
43 2-Butanone (MEK)	43	4.054	4.036	0.018	0	7867	2.00	1.81	M
48 Chlorobromomethane	128	4.219	4.213	0.006	92	1557	0.4000	0.2846	
49 Tetrahydrofuran	42	4.237	4.225	0.012	0	1831	0.8000	0.6290	M
50 Chloroform	83	4.280	4.274	0.006	94	6640	0.4000	0.4272	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	0	3678	0.4000	0.3266	M
52 Cyclohexane	56	4.383	4.383	0.000	0	3722	0.4000	0.2848	M
55 Carbon tetrachloride	117	4.493	4.493	0.000	92	2648	0.4000	0.2706	
54 1,1-Dichloropropene	75	4.505	4.499	0.006	87	3025	0.4000	0.3050	
57 Benzene	78	4.670	4.670	0.000	91	10167	0.4000	0.3753	
53 Isobutyl alcohol	43	4.682	4.670	0.012	0	1984	10.0	5.28	M
58 1,2-Dichloroethane	62	4.725	4.725	0.000	93	5310	0.4000	0.4083	
59 n-Heptane	43	4.816	4.816	0.000	91	2926	0.4000	0.2896	
62 Trichloroethene	95	5.176	5.170	0.006	90	2645	0.4000	0.3265	
64 Methylcyclohexane	83	5.273	5.267	0.006	89	2988	0.4000	0.2699	
65 1,2-Dichloropropane	63	5.365	5.359	0.006	83	2585	0.4000	0.3332	
66 1,4-Dioxane	88		5.469				ND	ND	
67 Dibromomethane	93	5.474	5.475	-0.001	95	1923	0.4000	0.3186	
68 Dichlorobromomethane	83	5.590	5.591	-0.001	0	3513	0.4000	0.3448	M
69 2-Chloroethyl vinyl ether	63	5.816	5.804	0.012	0	882	0.4000	0.1932	M
72 cis-1,3-Dichloropropene	75	5.926	5.920	0.006	88	3328	0.4000	0.3134	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.023	0.006	98	14311	2.00	1.85	
74 Toluene	92	6.151	6.151	0.000	97	5520	0.4000	0.3813	
77 trans-1,3-Dichloropropene	75	6.371	6.359	0.012	0	2557	0.4000	0.3076	M
75 Ethyl methacrylate	69	6.389	6.383	0.006	88	1108	0.4000	0.1837	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	84	1529	0.4000	0.3000	
81 Tetrachloroethene	166	6.572	6.566	0.006	89	2412	0.4000	0.3224	
82 1,3-Dichloropropane	76	6.639	6.633	0.006	92	3050	0.4000	0.3434	
80 2-Hexanone	43	6.688	6.676	0.012	96	7629	2.00	1.64	
83 Chlorodibromomethane	129	6.822	6.822	0.000	82	2443	0.4000	0.3320	
84 Ethylene Dibromide	107	6.913	6.907	0.006	97	2243	0.4000	0.3238	
87 Chlorobenzene	112	7.273	7.273	0.000	0	6139	0.4000	0.3589	M
88 Ethylbenzene	91	7.340	7.334	0.006	97	8964	0.4000	0.3494	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	49	1920	0.4000	0.2869	
90 m-Xylene & p-Xylene	106	7.431	7.426	0.005	0	3181	0.4000	0.3095	M
91 o-Xylene	106	7.755	7.755	0.000	95	3826	0.4000	0.3493	
92 Styrene	104	7.779	7.779	0.000	90	5056	0.4000	0.3071	
95 Bromoform	173	7.974	7.974	0.000	86	1525	0.4000	0.3275	
94 Isopropylbenzene	105	8.047	8.041	0.006	94	8489	0.4000	0.3001	
101 Bromobenzene	156	8.334	8.334	0.000	85	2861	0.4000	0.3412	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	85	3280	0.4000	0.3598	
99 N-Propylbenzene	91	8.382	8.383	-0.001	97	10374	0.4000	0.3217	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.389	0.006	0	277	0.4000	0.1221	M
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	0	694	0.4000	0.2979	M
103 2-Chlorotoluene	126	8.480	8.474	0.006	93	2674	0.4000	0.3609	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	93	7860	0.4000	0.3343	
105 4-Chlorotoluene	126	8.571	8.566	0.005	93	2461	0.4000	0.3495	
106 tert-Butylbenzene	134	8.797	8.791	0.006	91	1101	0.4000	0.2265	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	92	8682	0.4000	0.3522	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	94	9231	0.4000	0.2971	
110 4-Isopropyltoluene	119	9.096	9.090	0.006	96	8159	0.4000	0.2966	
111 1,3-Dichlorobenzene	146	9.108	9.102	0.006	95	5230	0.4000	0.3534	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	93	5873	0.4000	0.3877	M
115 n-Butylbenzene	91	9.443	9.437	0.006	96	7517	0.4000	0.3115	
116 1,2-Dichlorobenzene	146	9.504	9.498	0.006	94	5641	0.4000	0.3650	
117 1,2-Dibromo-3-Chloropropane	75		10.175				ND	ND	MU
119 1,2,4-Trichlorobenzene	180	10.845	10.840	0.005	90	4662	0.4000	0.3619	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	78	1614	0.4000	0.2841	
121 Naphthalene	128	11.053	11.053	0.000	0	11056	0.4000	0.3479	M
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	0	4898	0.4000	0.3776	M
S 124 Xylenes, Total	1				0			0.6588	
S 125 1,2-Dichloroethene, Total	1				0			0.6246	
S 126 1,3-Dichloropropene, Total	1				0			0.6210	
S 123 Total BTEX	1				0			1.76	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

8260 CORP mix_00242	Amount Added:	0.40	Units: uL	
GAS CORP mix_00583	Amount Added:	0.40	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

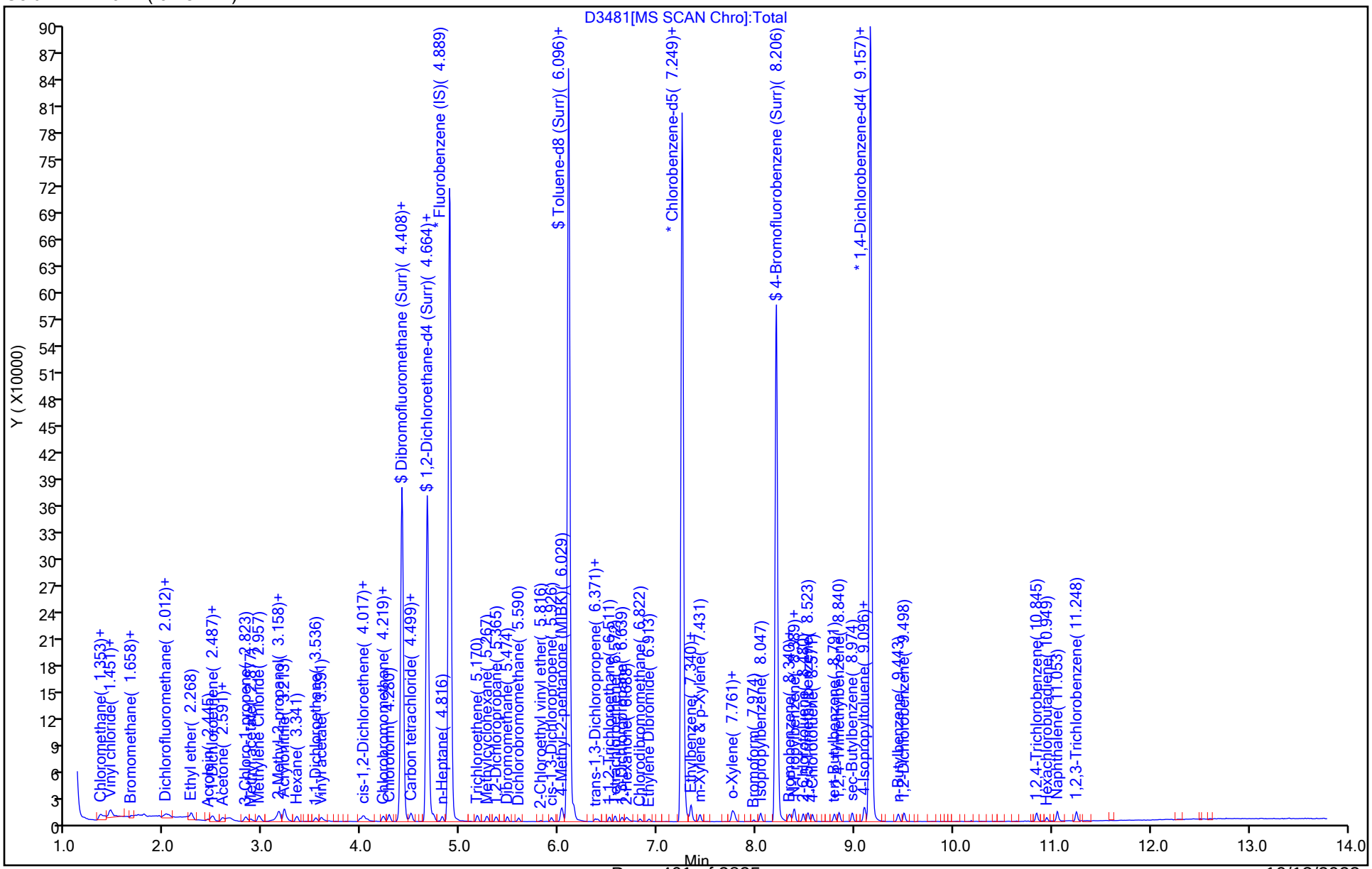
Report Date: 08-Sep-2023 12:47:27 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d

Injection Date:	07-Sep-2023 15:45:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 0.4			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo

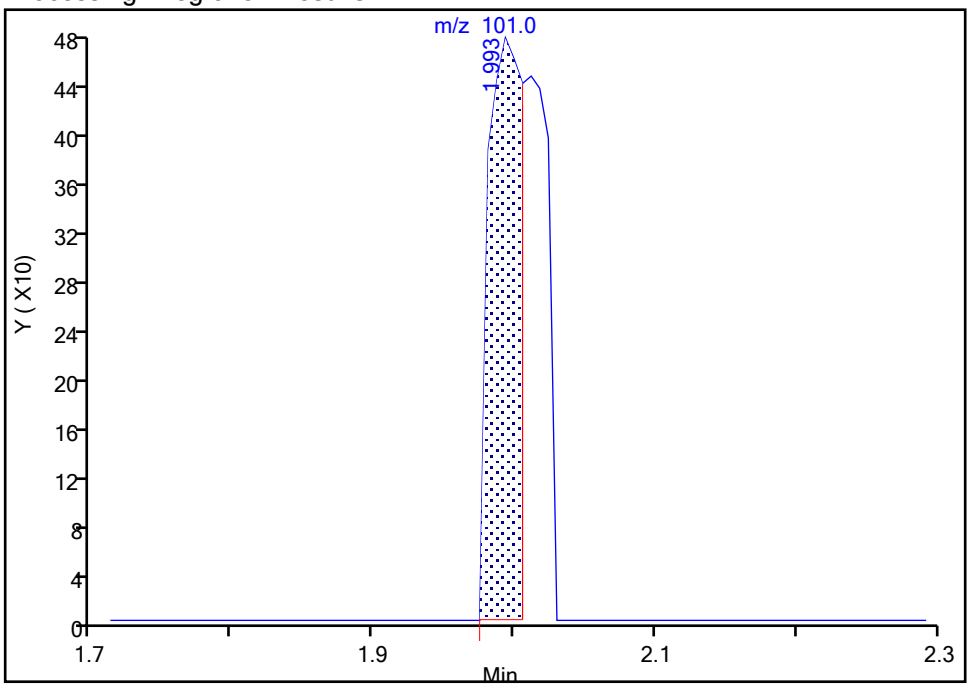
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

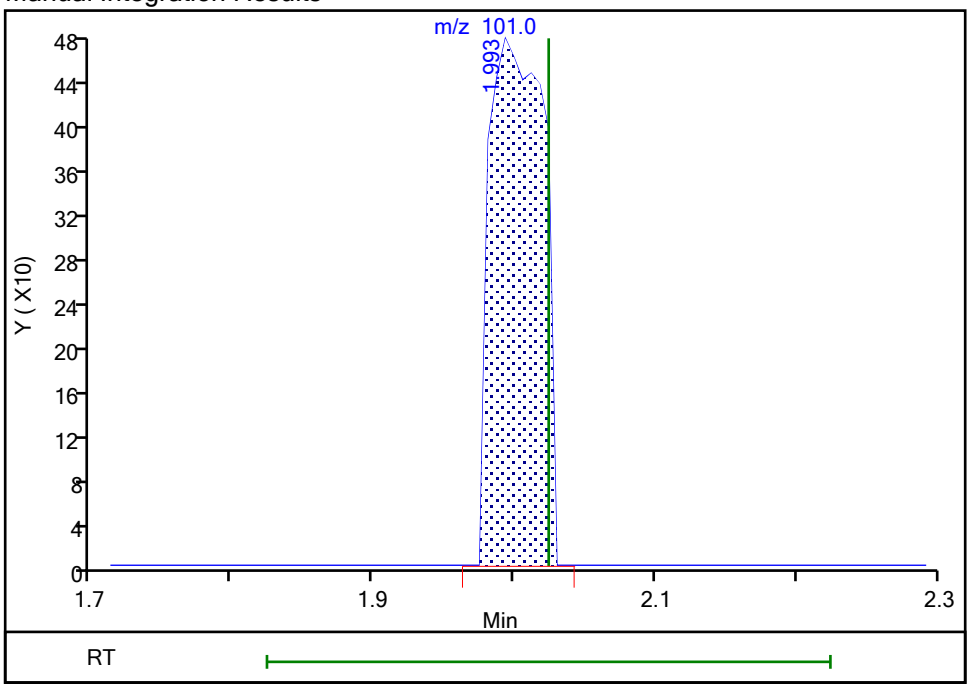
Processing Integration Results

RT: 1.99
Area: 796
Amount: 0.136265
Amount Units: ug/L



Manual Integration Results

RT: 1.99
Area: 1257
Amount: 0.112870
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:53:12 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

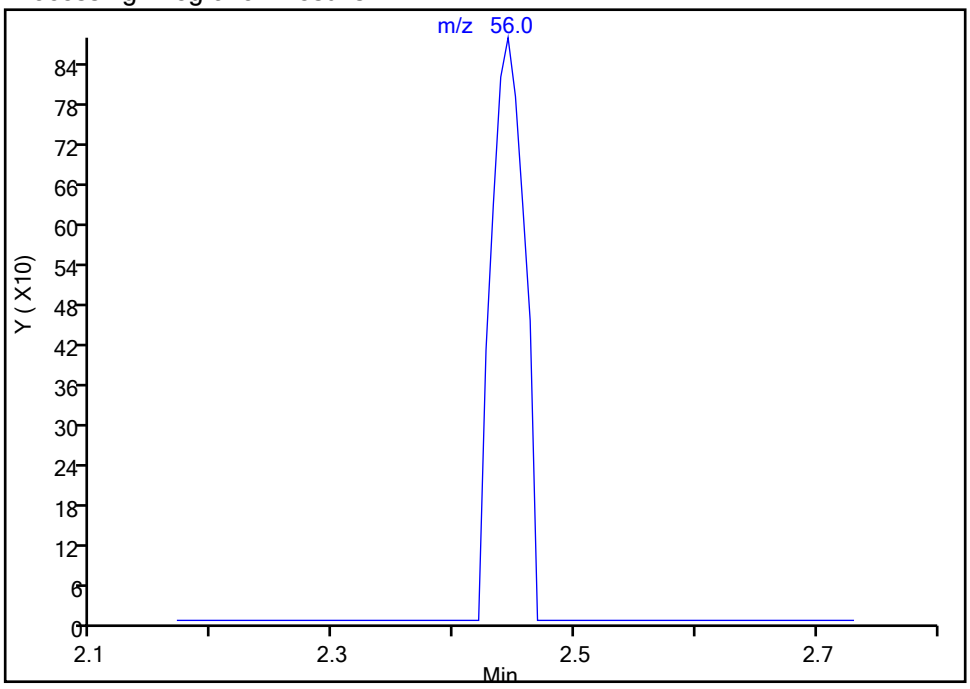
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

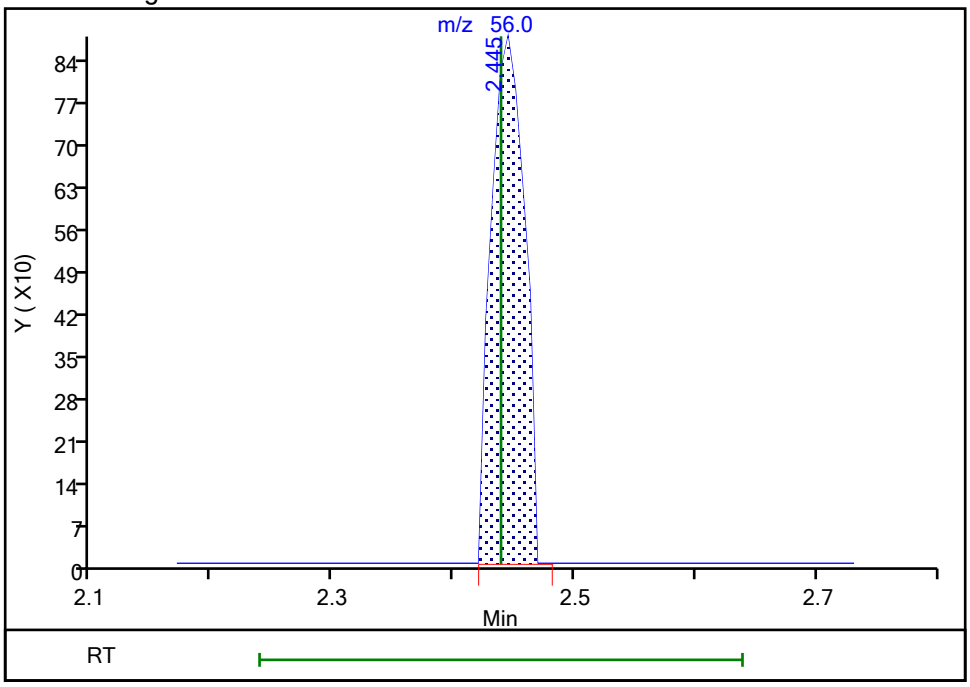
Not Detected
Expected RT: 2.44

Processing Integration Results



Manual Integration Results

RT: 2.44
Area: 1672
Amount: 1.832927
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:53:16 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

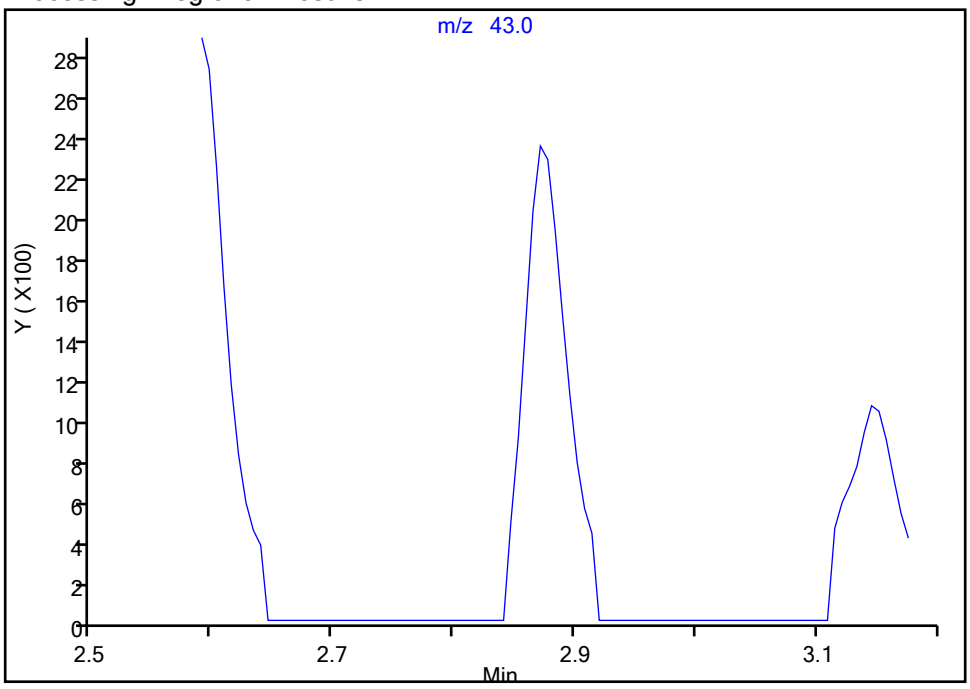
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

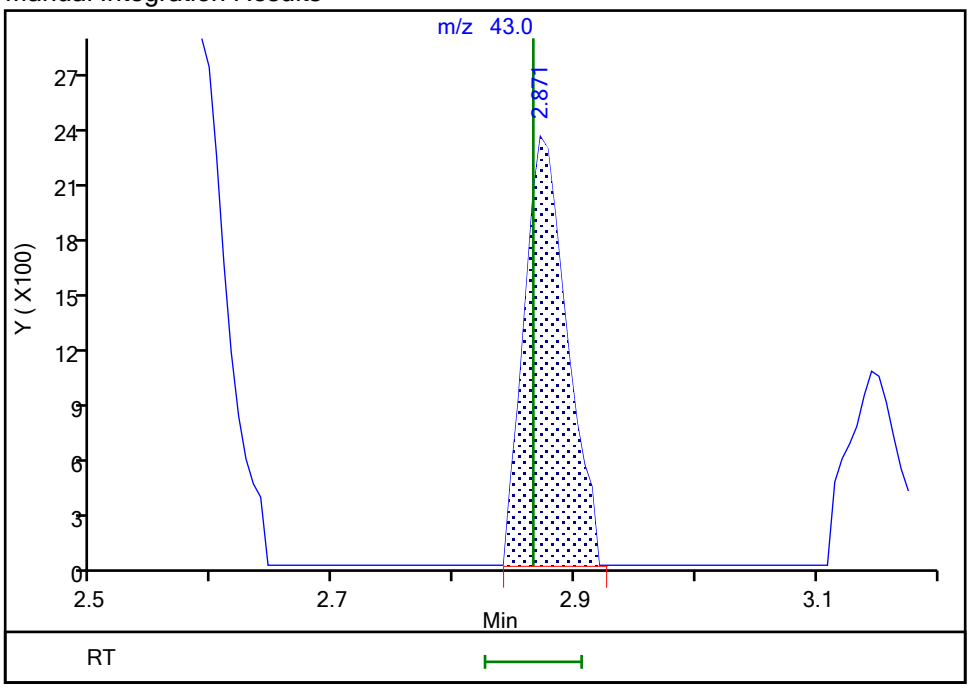
Not Detected
Expected RT: 2.87

Processing Integration Results



Manual Integration Results

RT: 2.87
Area: 5741
Amount: 0.753570
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:53:24 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

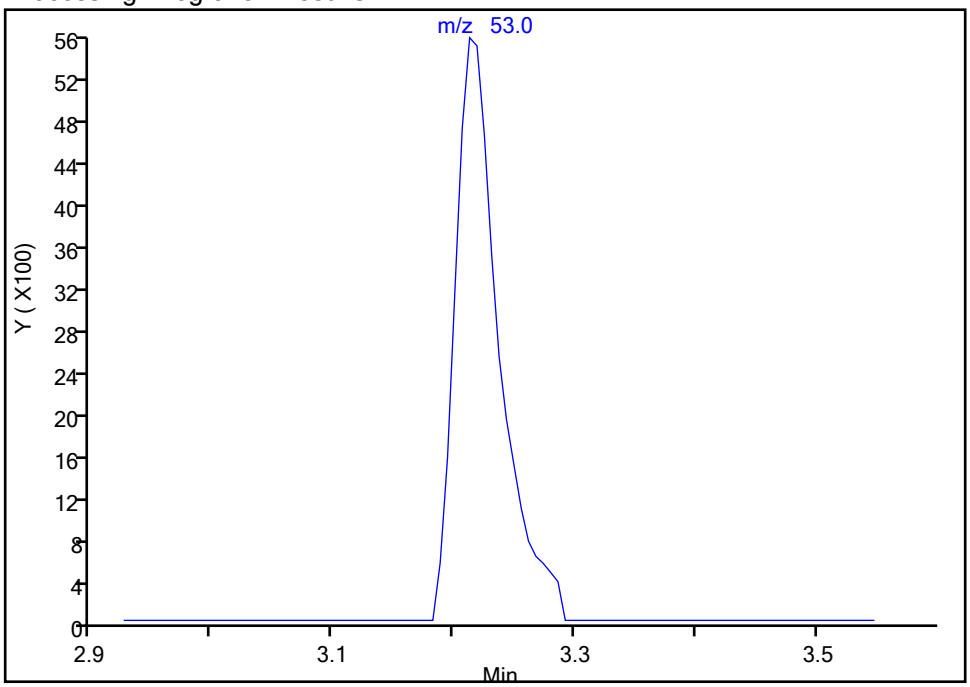
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

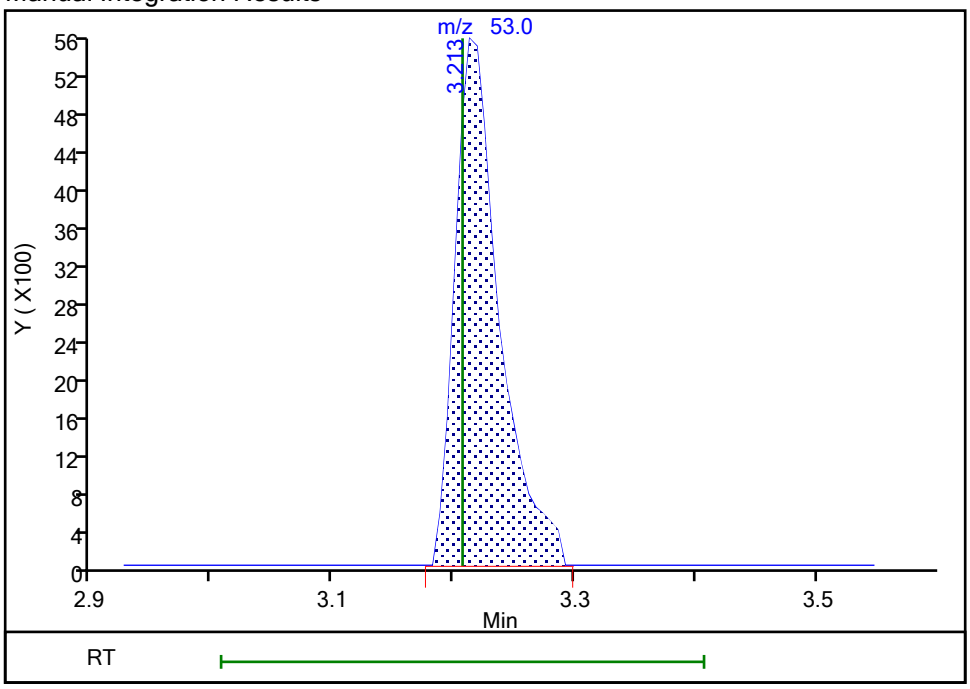
Not Detected
Expected RT: 3.21

Processing Integration Results



Manual Integration Results

RT: 3.21
Area: 14147
Amount: 3.731247
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:53:32 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

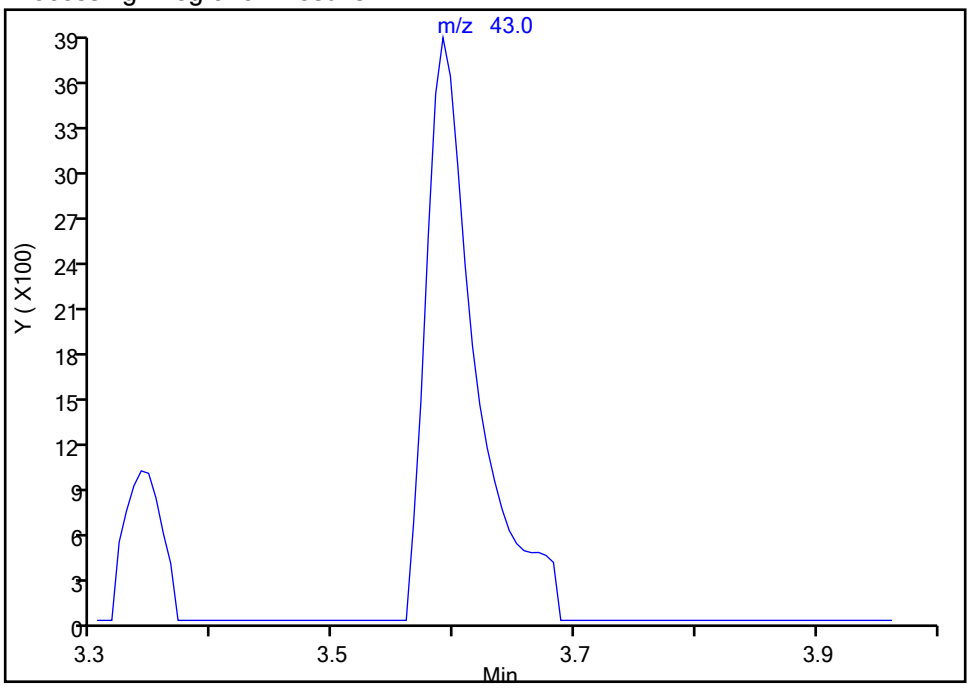
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

37 Vinyl acetate, CAS: 108-05-4

Signal: 1

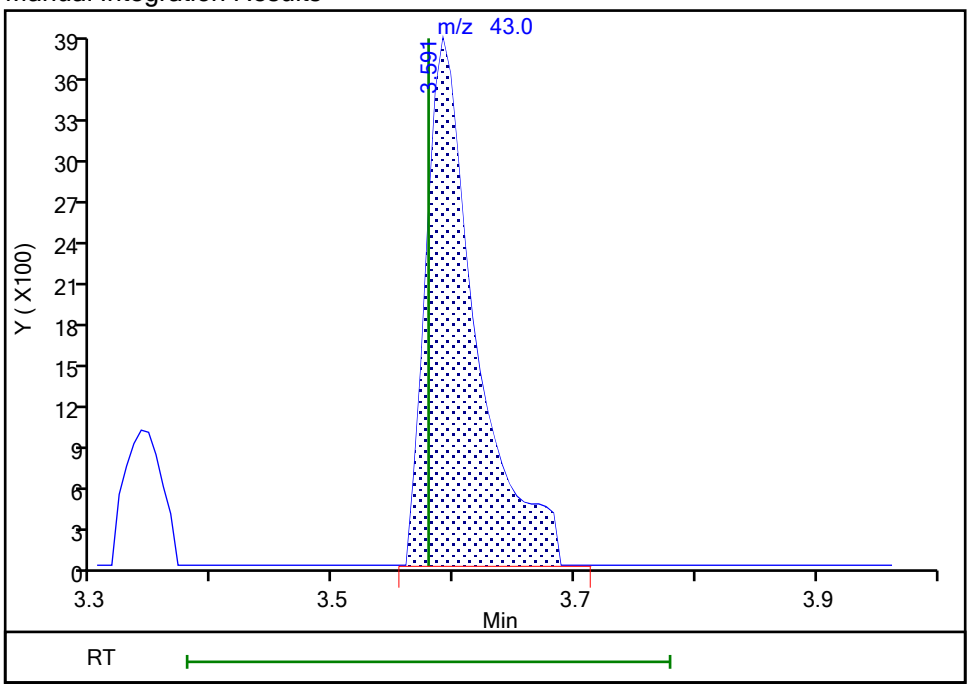
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.59
Area: 11116
Amount: 0.661943
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:53:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

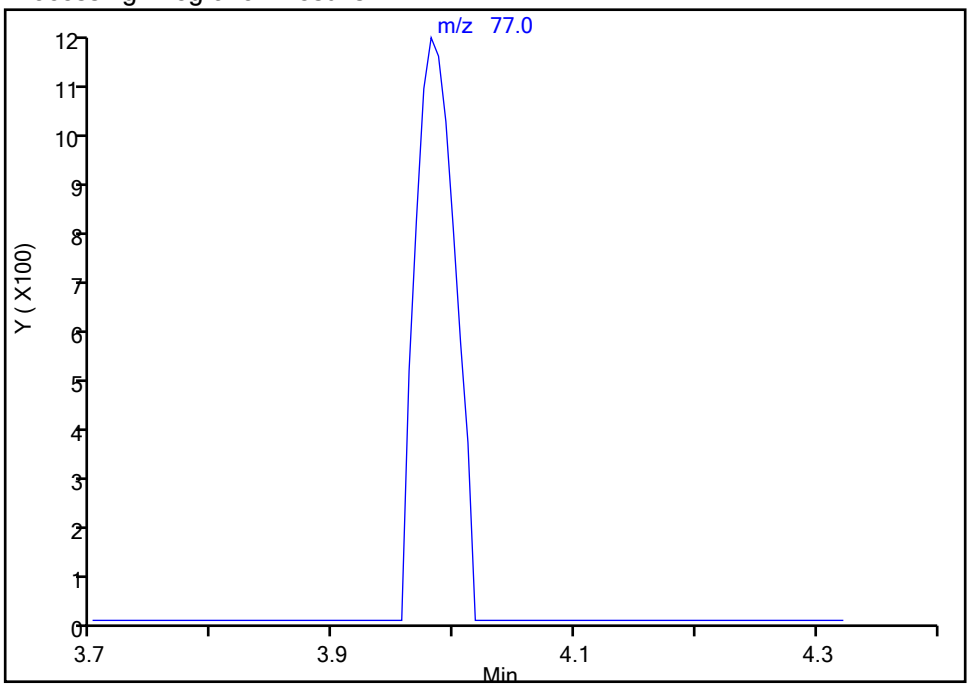
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

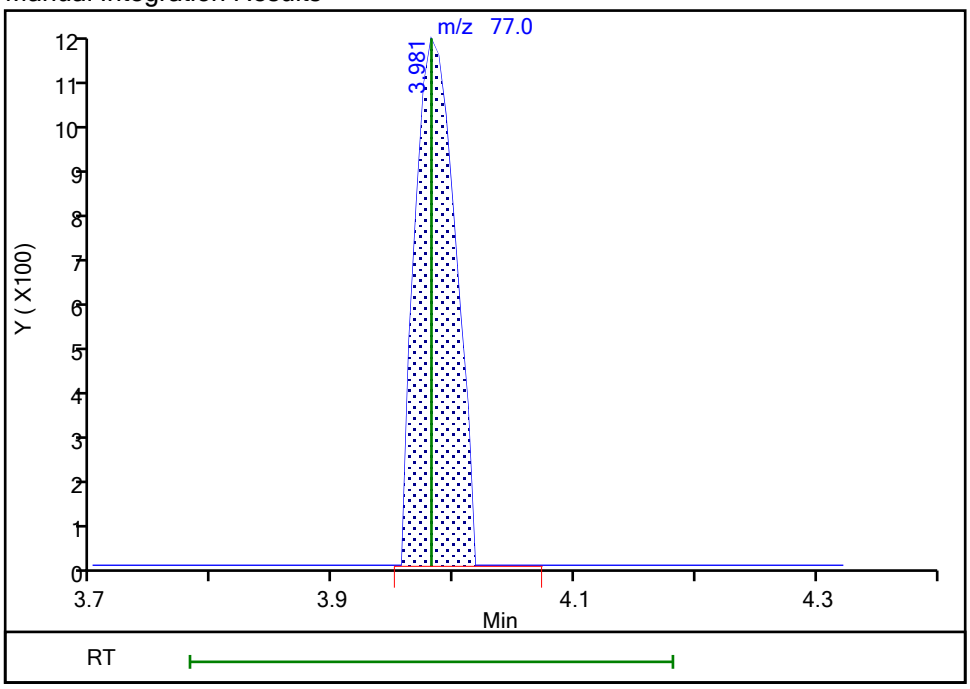
Not Detected
Expected RT: 3.98

Processing Integration Results



Manual Integration Results

RT: 3.98
Area: 2768
Amount: 0.328158
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:53:42 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

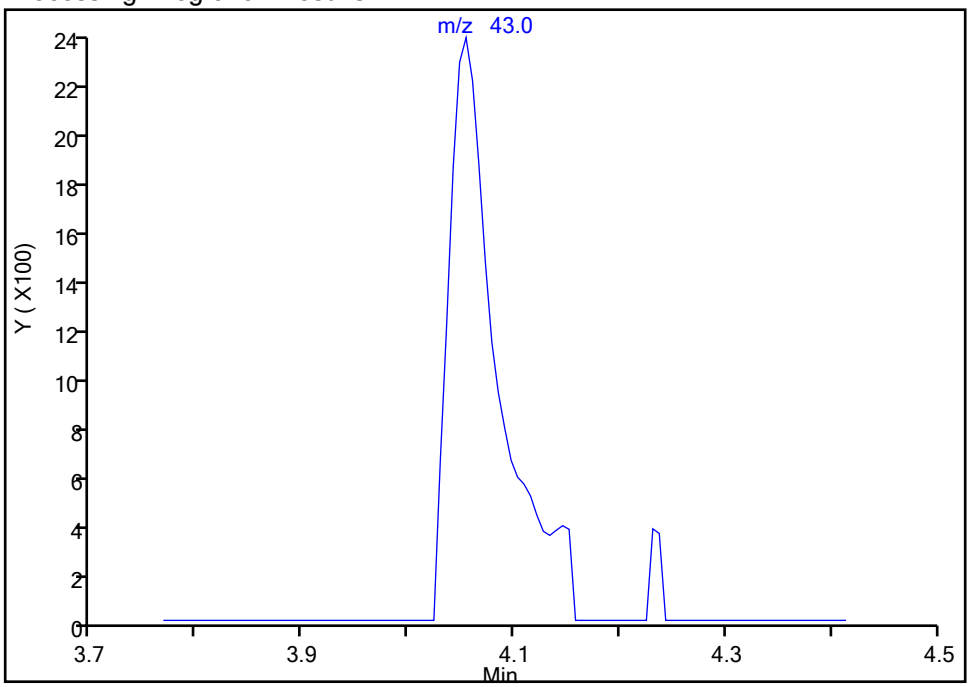
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

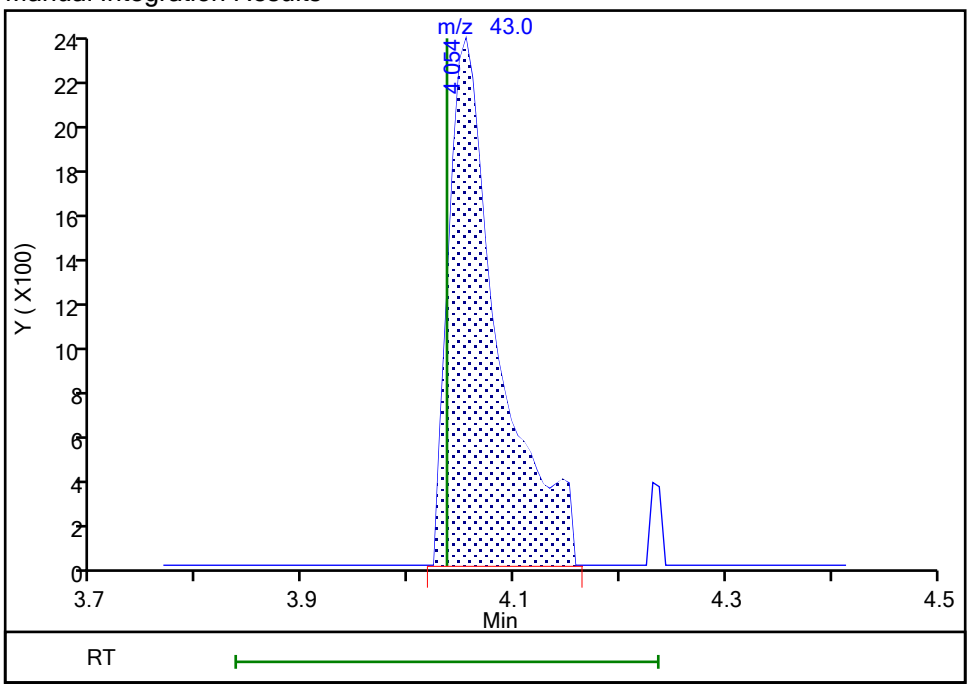
Not Detected
Expected RT: 4.04

Processing Integration Results



Manual Integration Results

RT: 4.05
Area: 7867
Amount: 1.810058
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:53:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

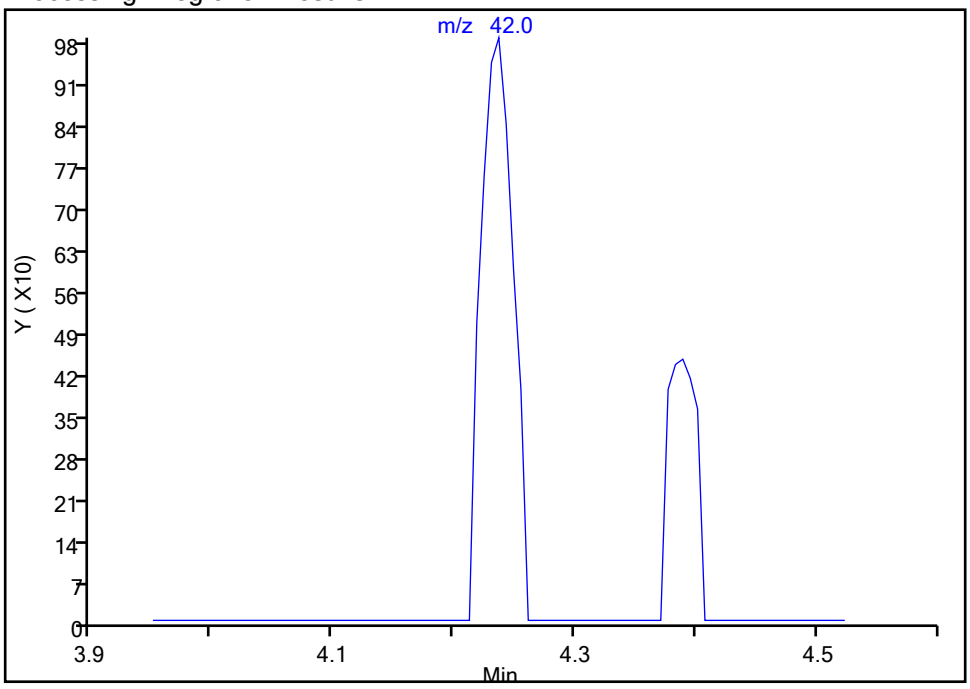
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

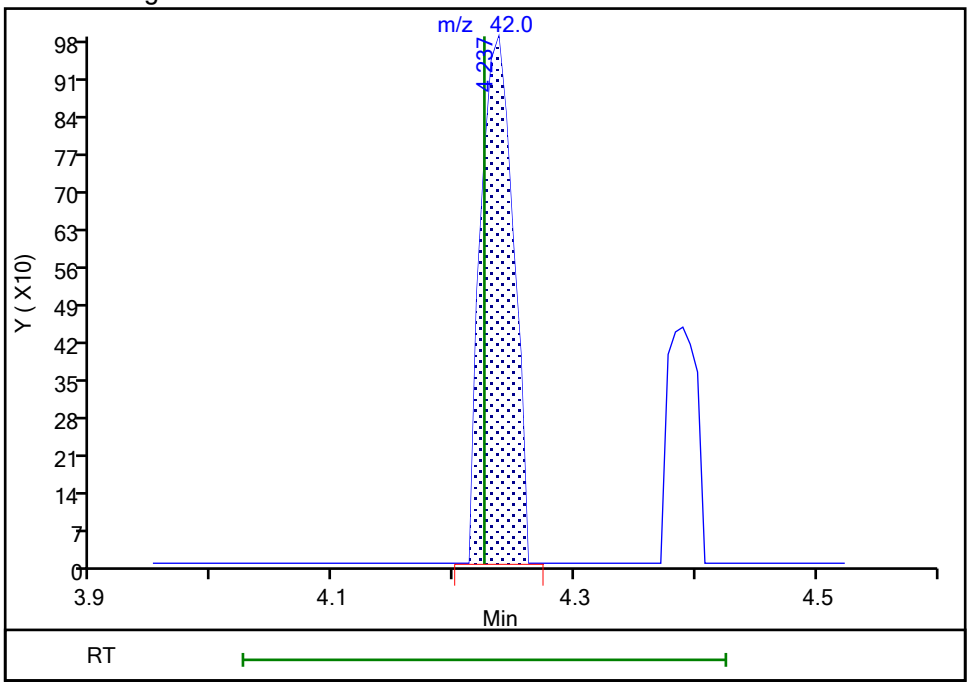
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.24
Area: 1831
Amount: 0.629016
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:53:58 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

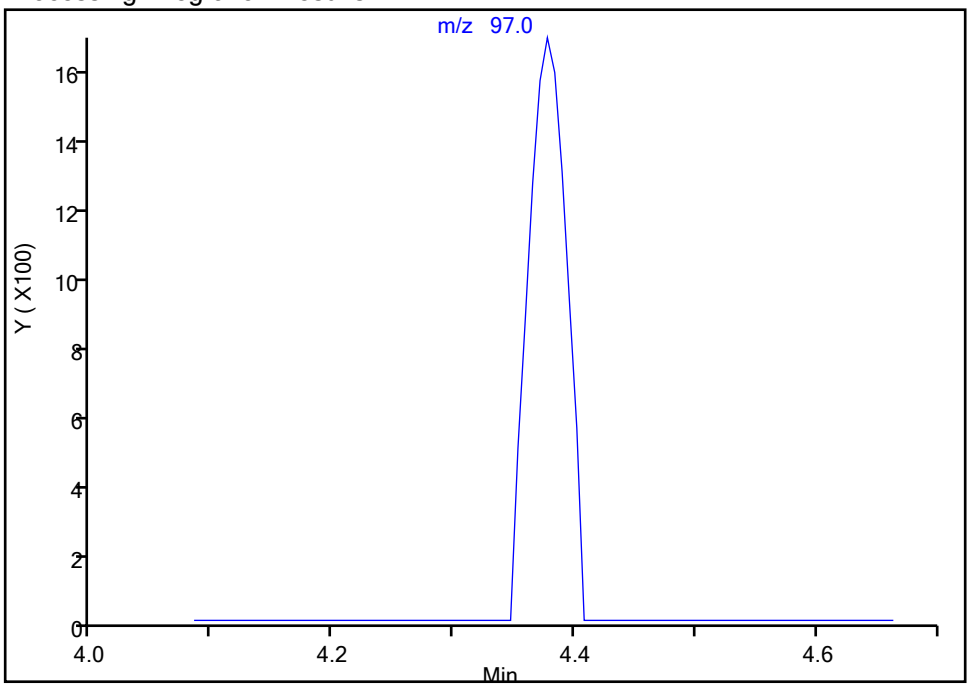
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

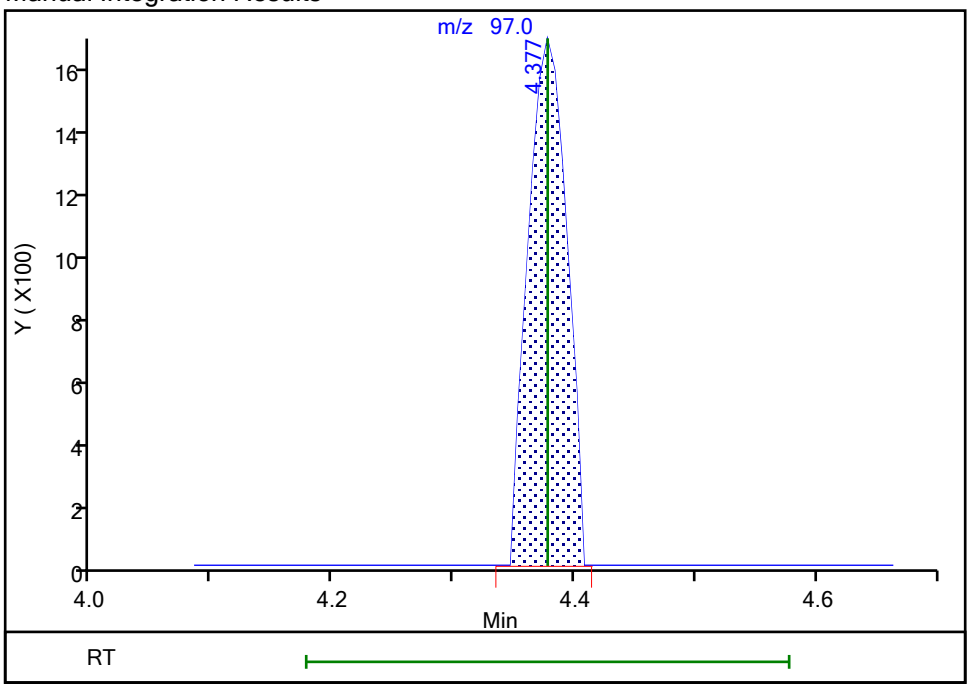
Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 3678
Amount: 0.326573
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:54:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

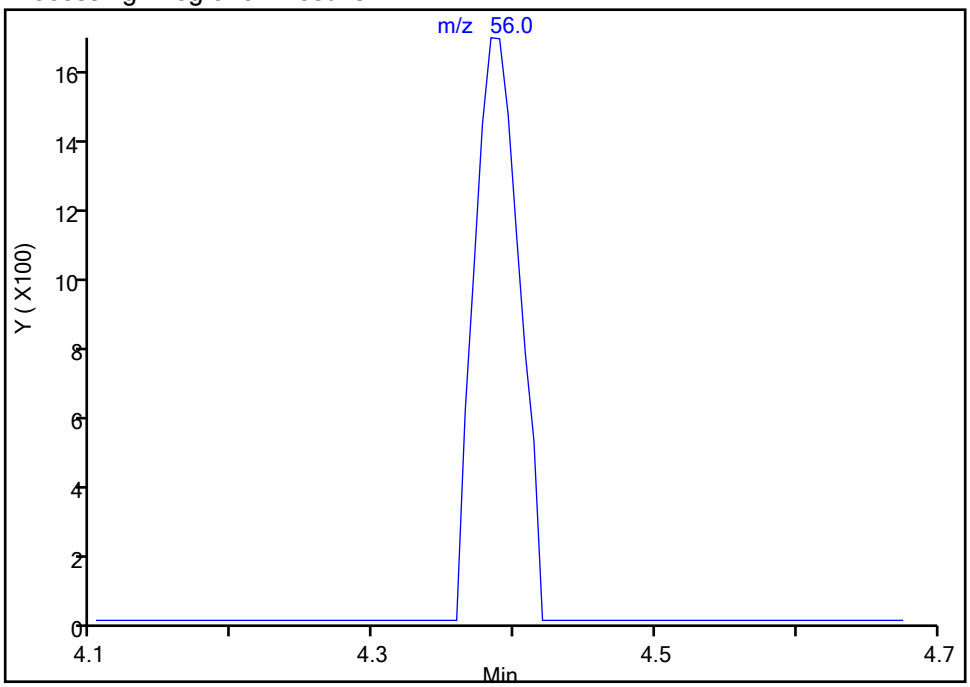
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

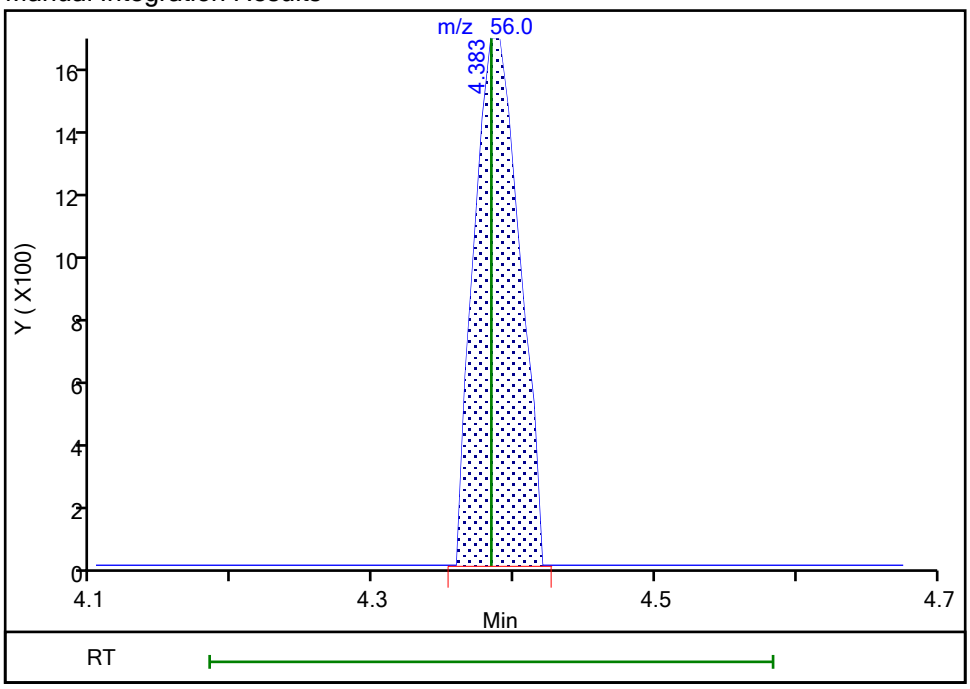
Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 3722
Amount: 0.284827
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:54:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

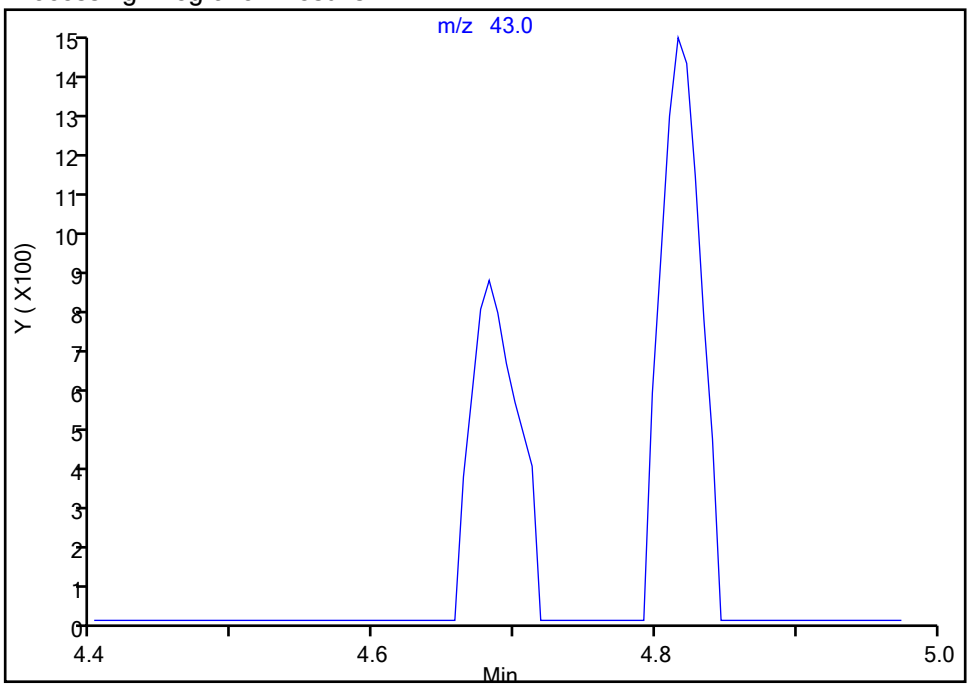
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

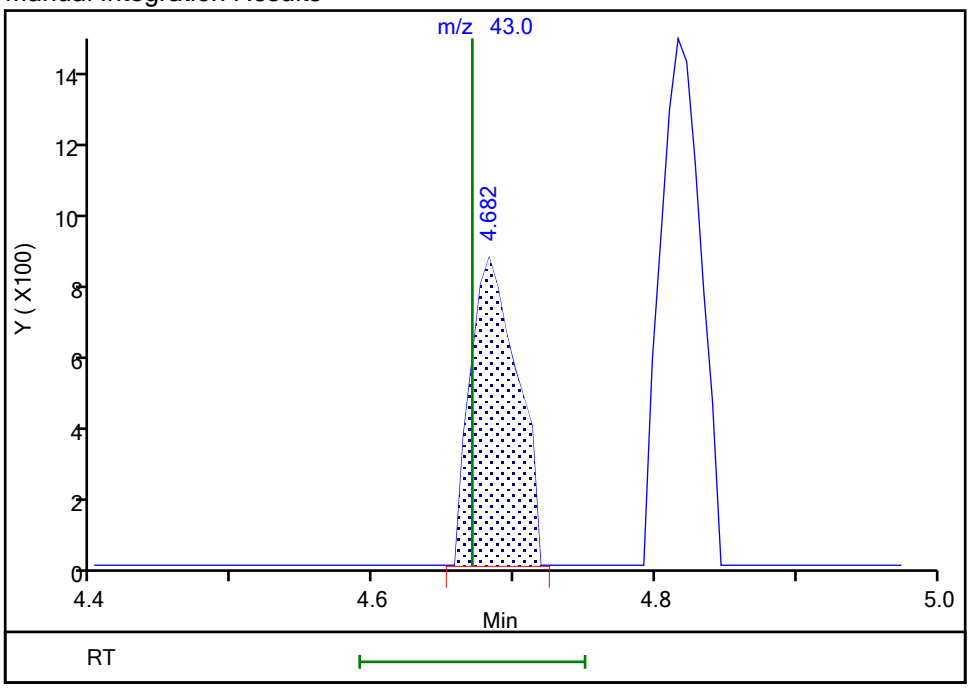
Not Detected
Expected RT: 4.67

Processing Integration Results



Manual Integration Results

RT: 4.68
Area: 1984
Amount: 5.281933
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:54:15 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

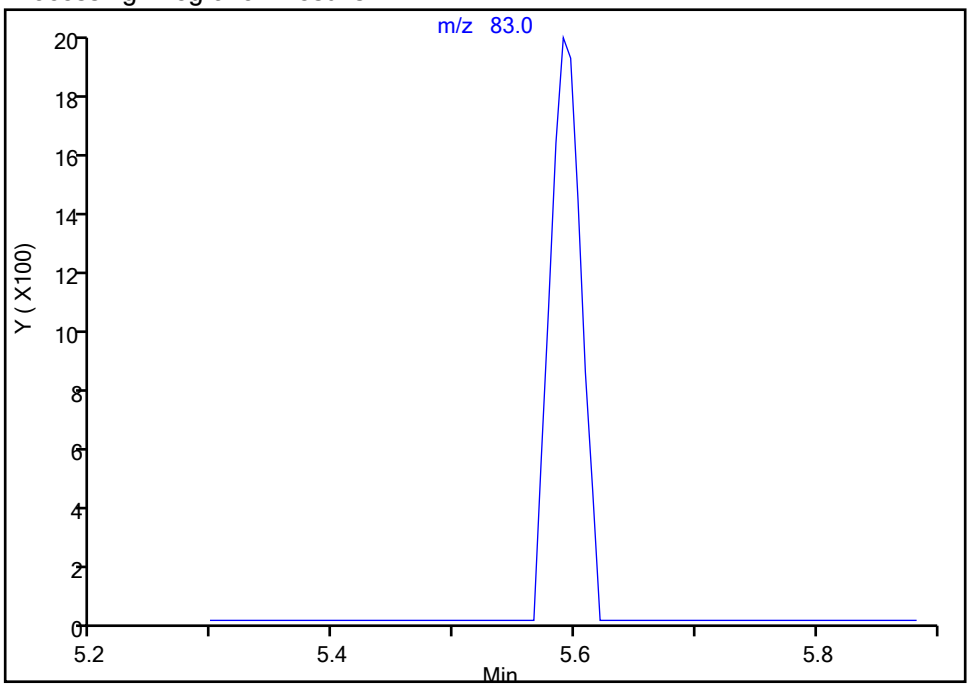
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

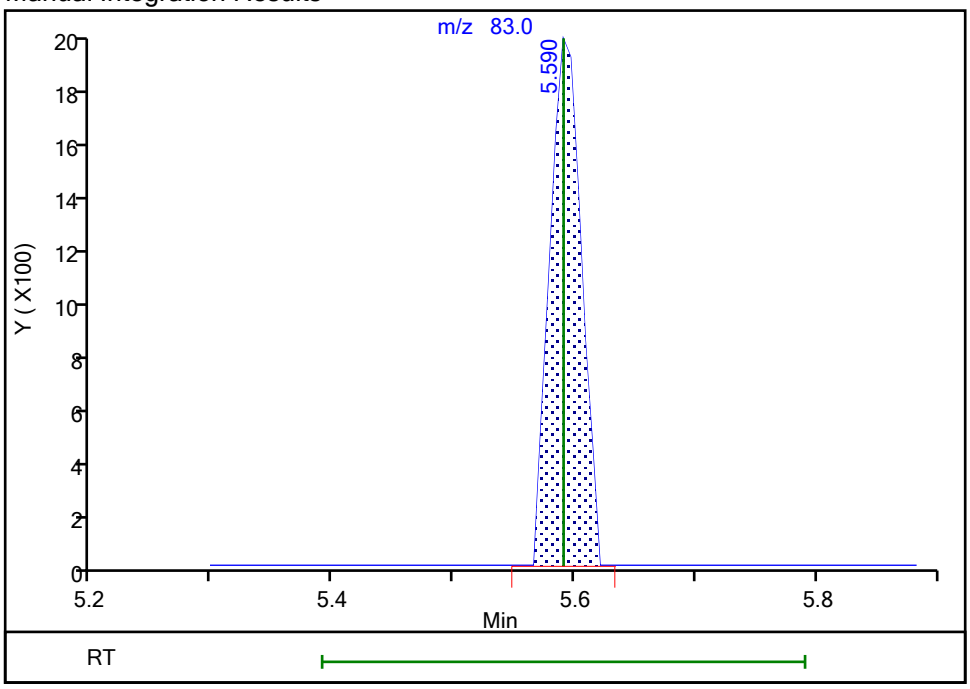
Not Detected
Expected RT: 5.59

Processing Integration Results



Manual Integration Results

RT: 5.59
Area: 3513
Amount: 0.344789
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:54:23 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

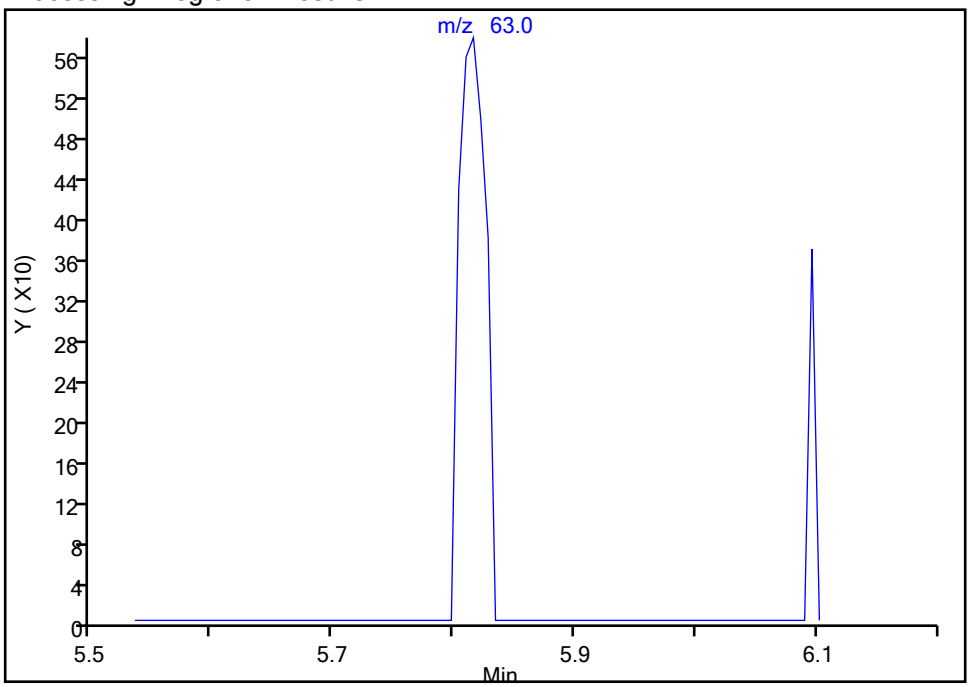
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

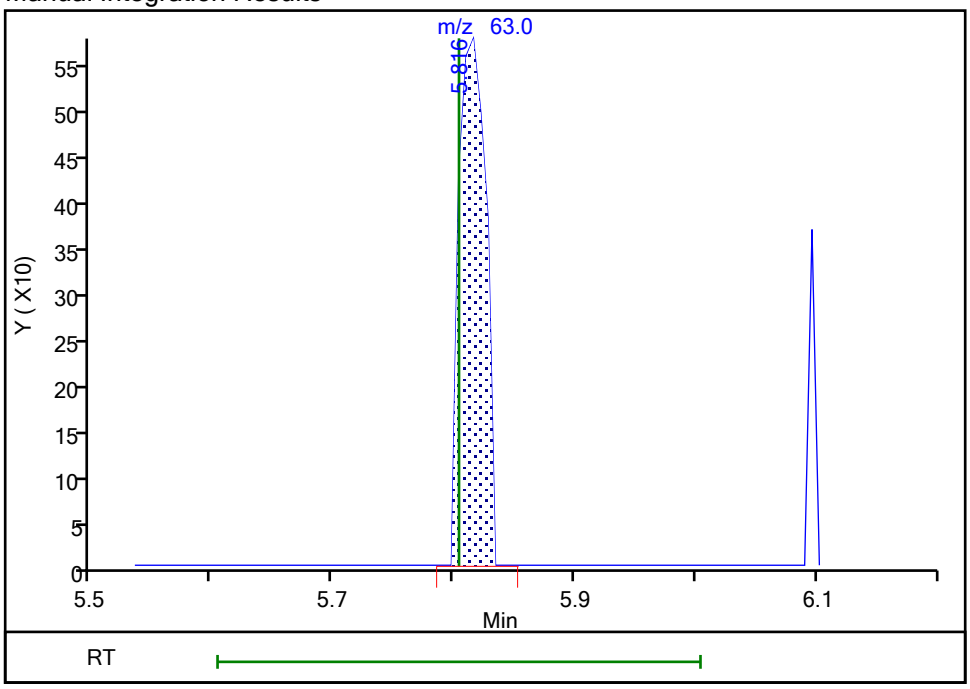
Not Detected
Expected RT: 5.80

Processing Integration Results



Manual Integration Results

RT: 5.82
Area: 882
Amount: 0.193171
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:54:28 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

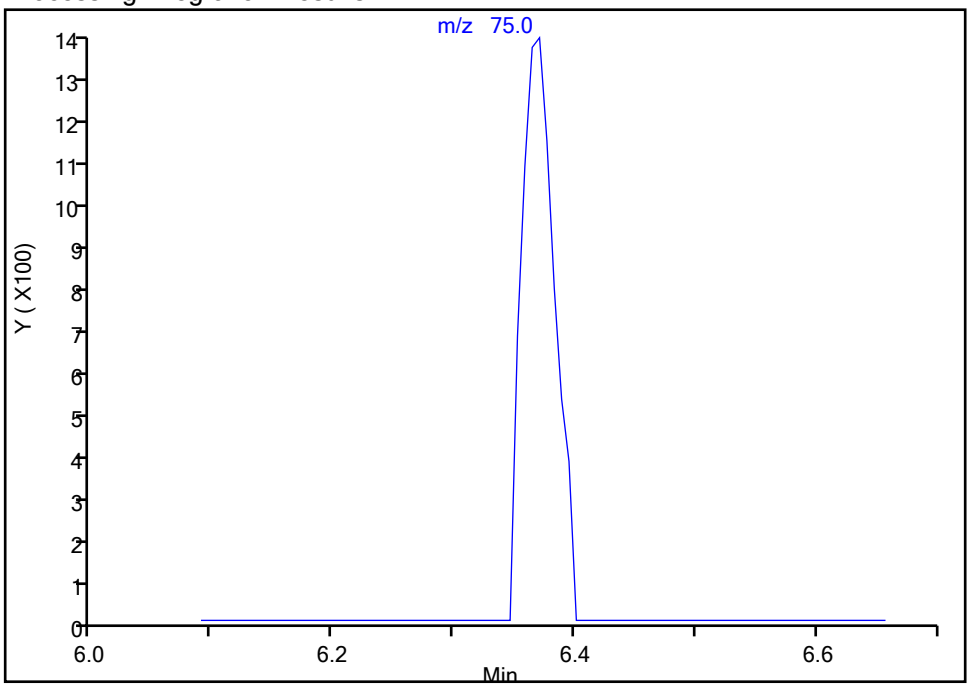
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

77 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

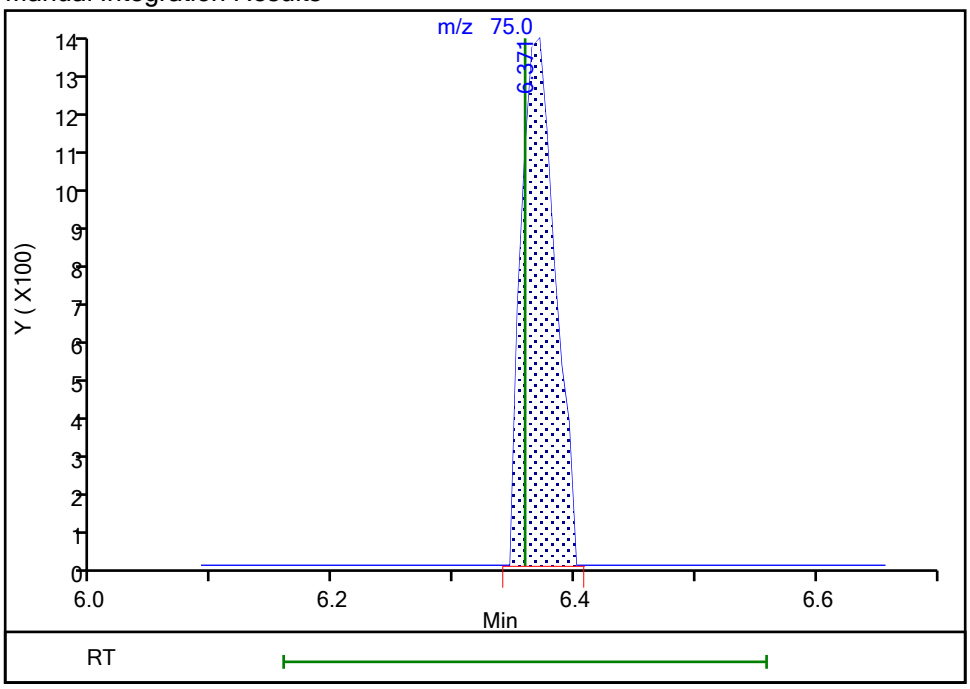
Not Detected
Expected RT: 6.36

Processing Integration Results



Manual Integration Results

RT: 6.37
Area: 2557
Amount: 0.307624
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:54:35 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

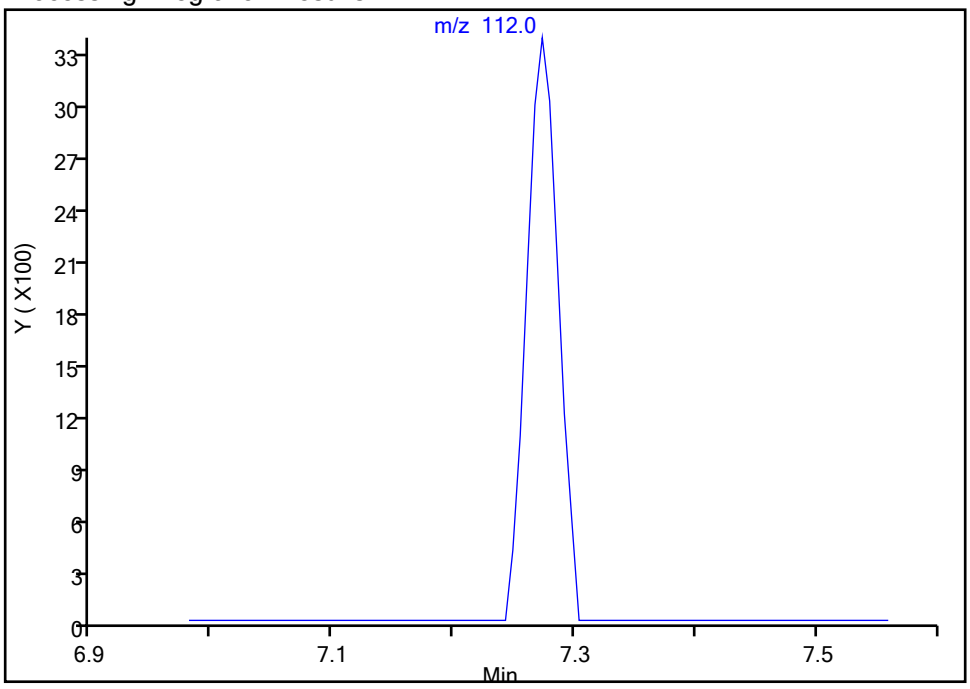
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

87 Chlorobenzene, CAS: 108-90-7

Signal: 1

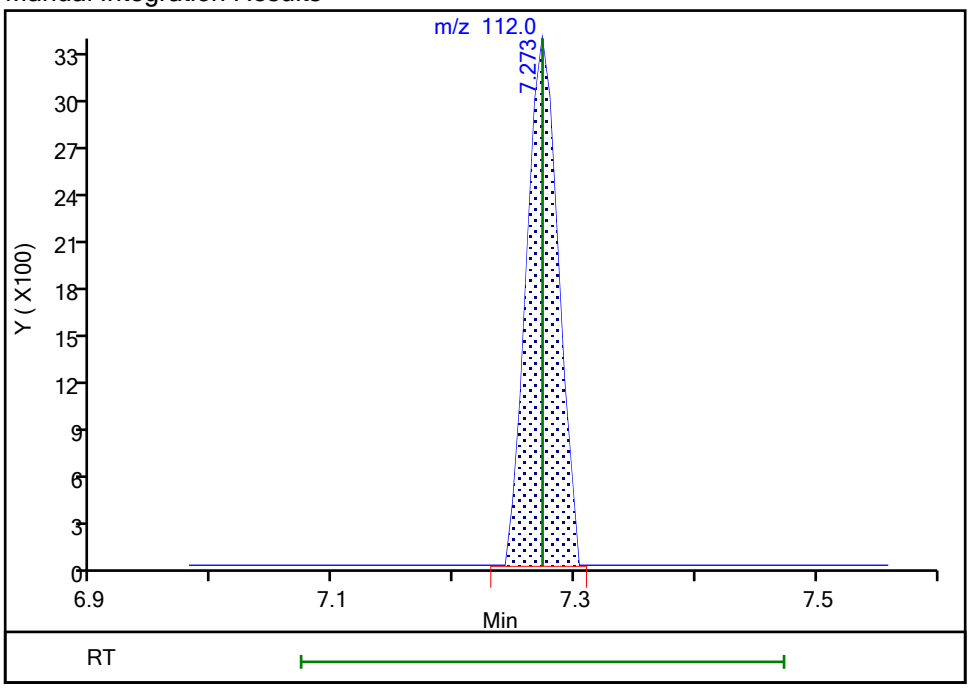
Not Detected
Expected RT: 7.27

Processing Integration Results



Manual Integration Results

RT: 7.27
Area: 6139
Amount: 0.358939
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:54:49 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

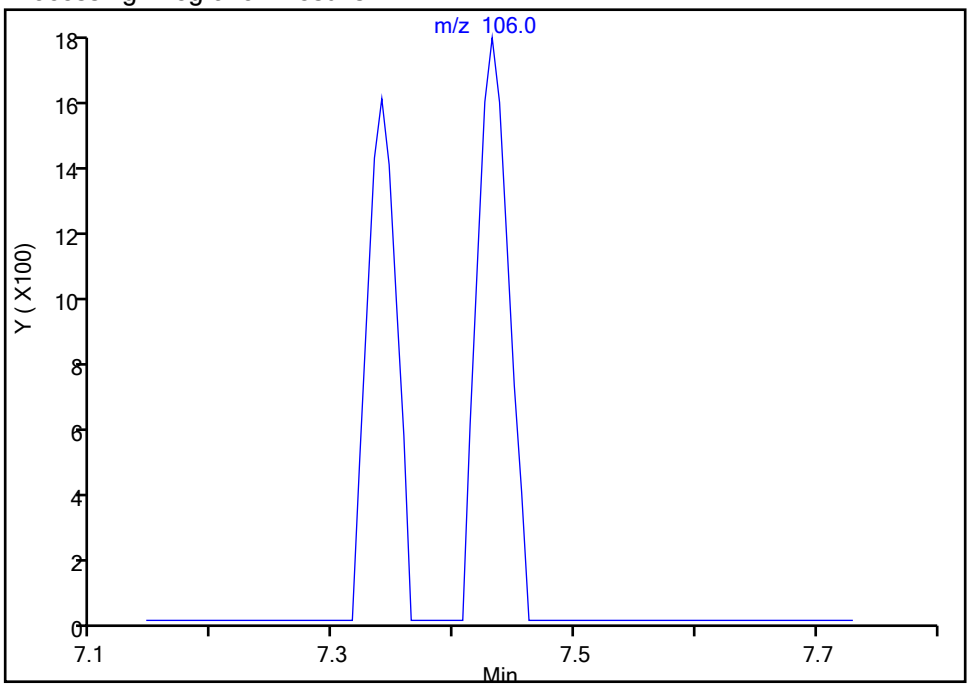
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

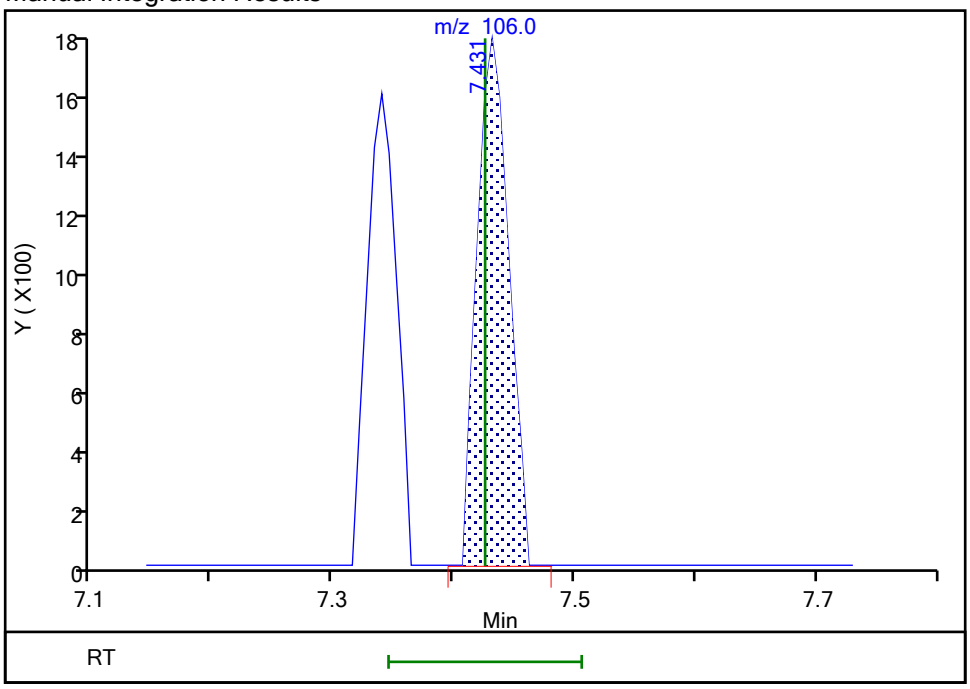
Not Detected
Expected RT: 7.43

Processing Integration Results



Manual Integration Results

RT: 7.43
Area: 3181
Amount: 0.309507
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:54:54 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

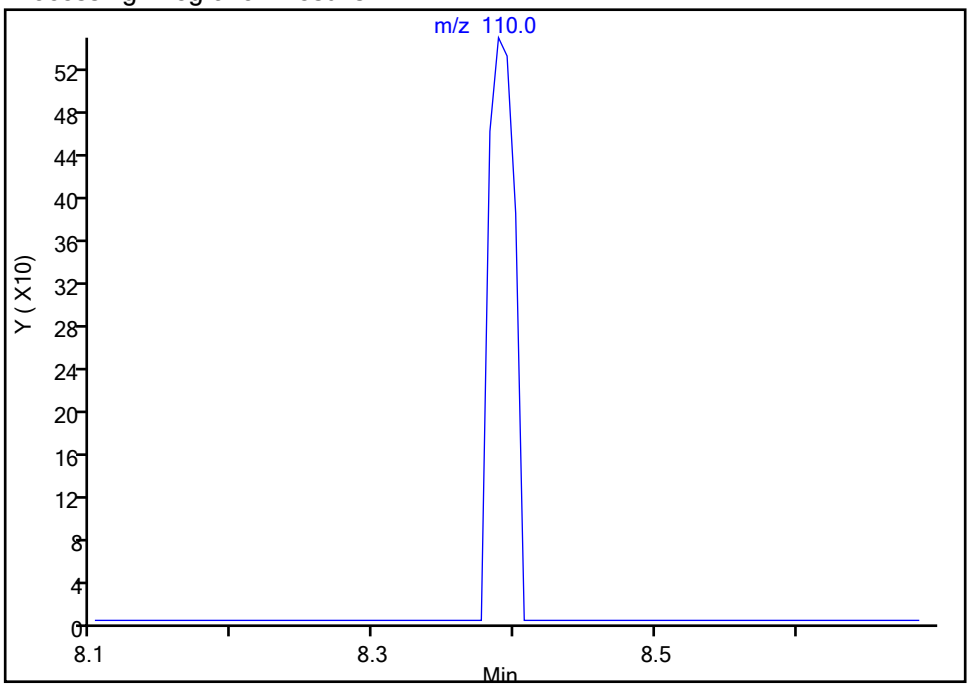
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

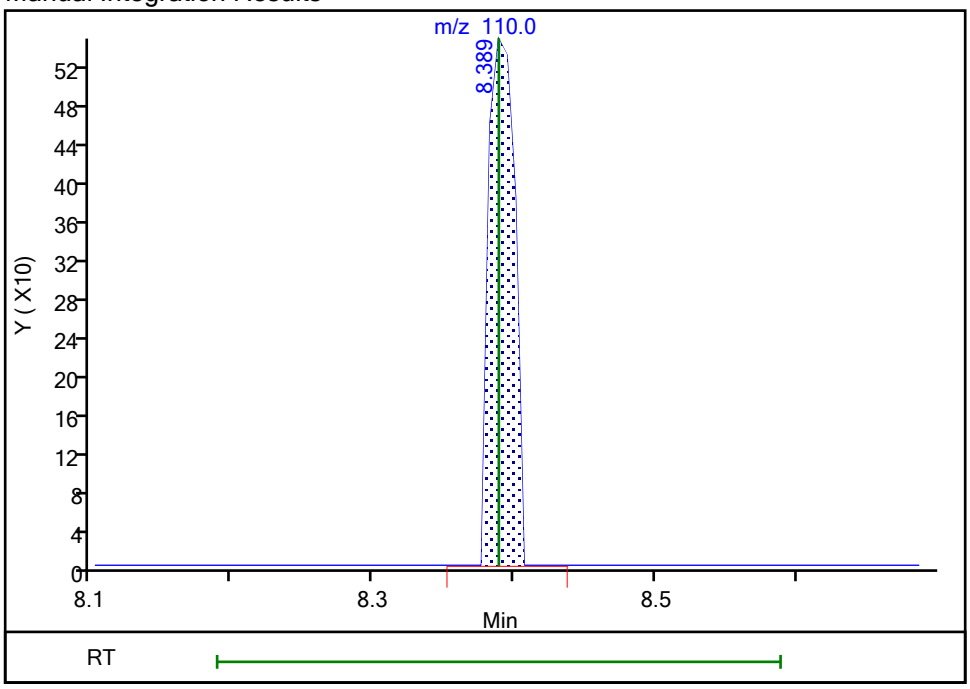
Not Detected
Expected RT: 8.39

Processing Integration Results



Manual Integration Results

RT: 8.39
Area: 694
Amount: 0.297928
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:55:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

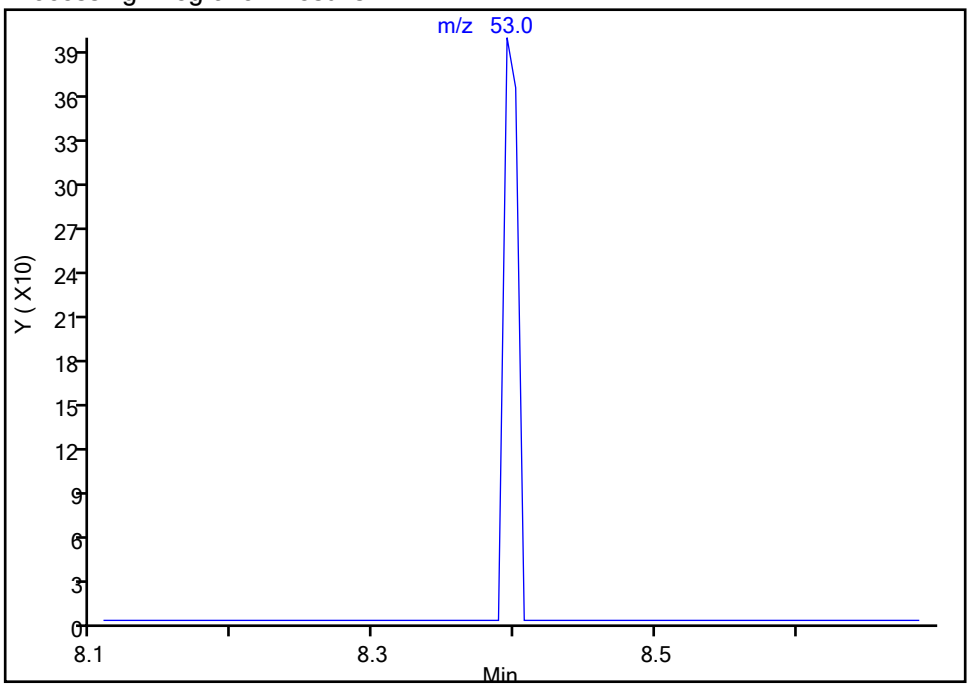
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

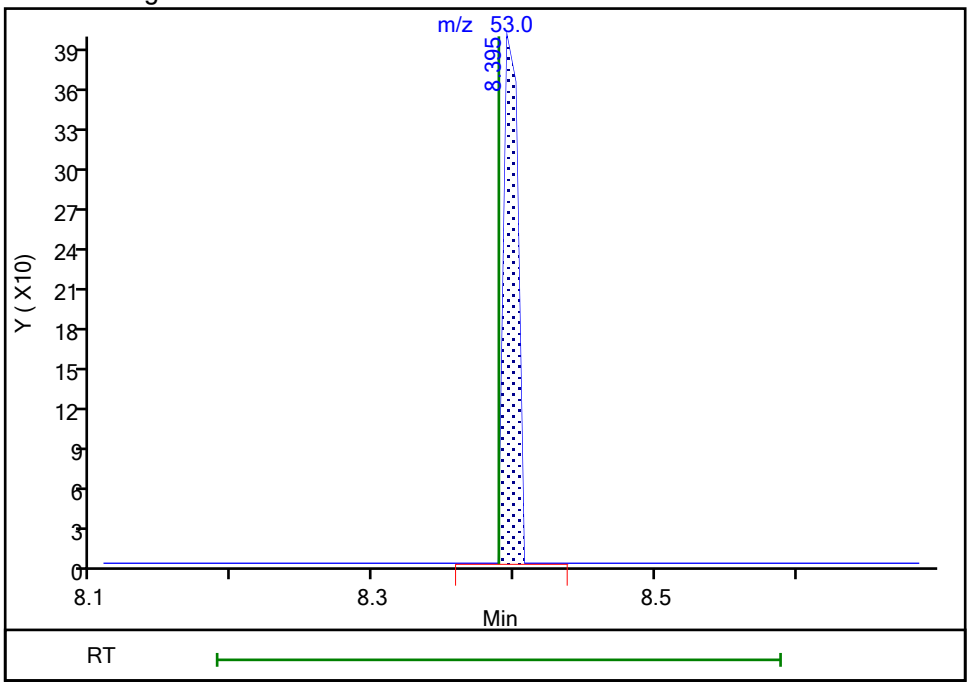
Not Detected
Expected RT: 8.39

Processing Integration Results



Manual Integration Results

RT: 8.39
Area: 277
Amount: 0.122110
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:55:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

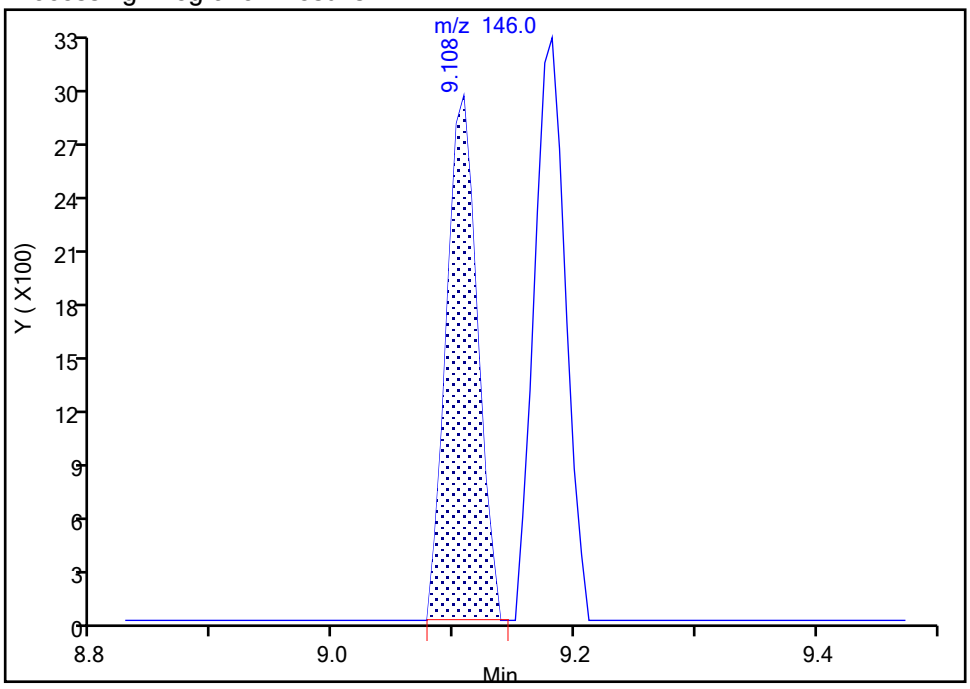
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

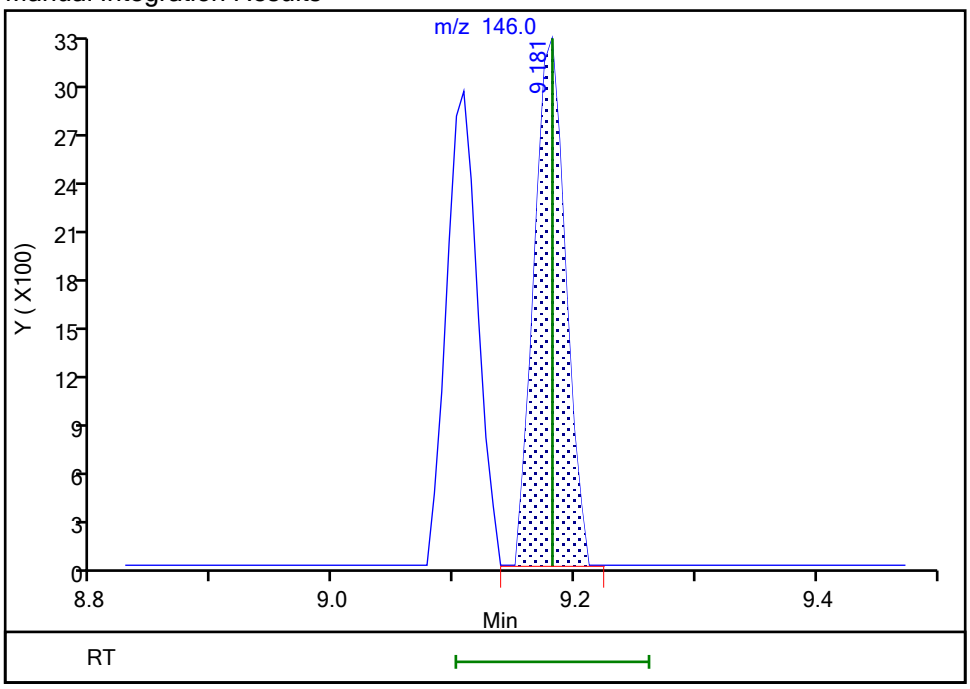
Processing Integration Results

RT: 9.11
Area: 5230
Amount: 0.349862
Amount Units: ug/L



Manual Integration Results

RT: 9.18
Area: 5873
Amount: 0.387664
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:55:26 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

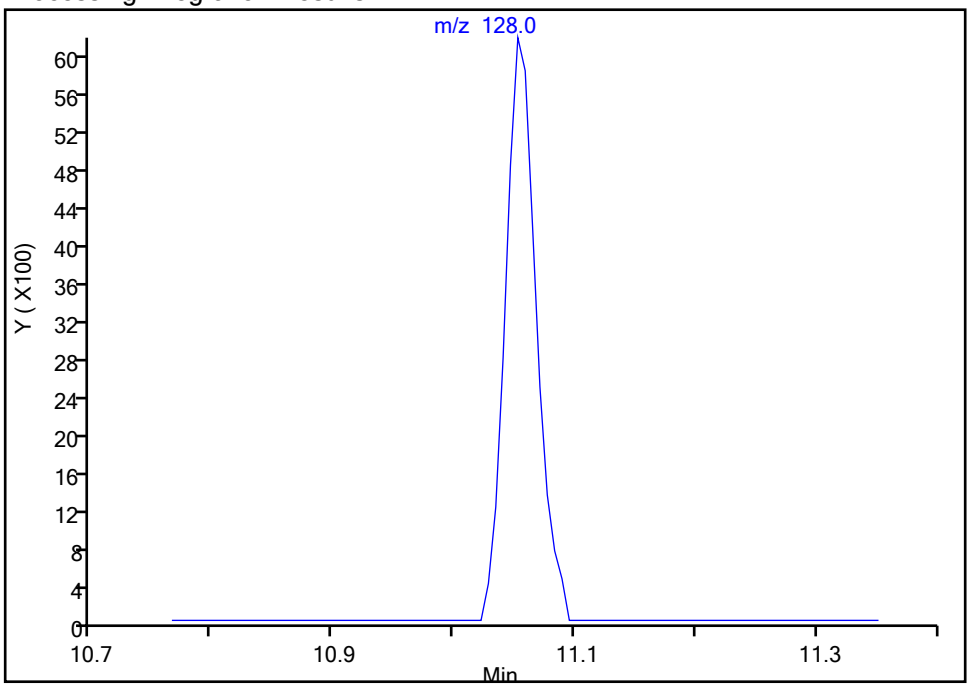
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

121 Naphthalene, CAS: 91-20-3

Signal: 1

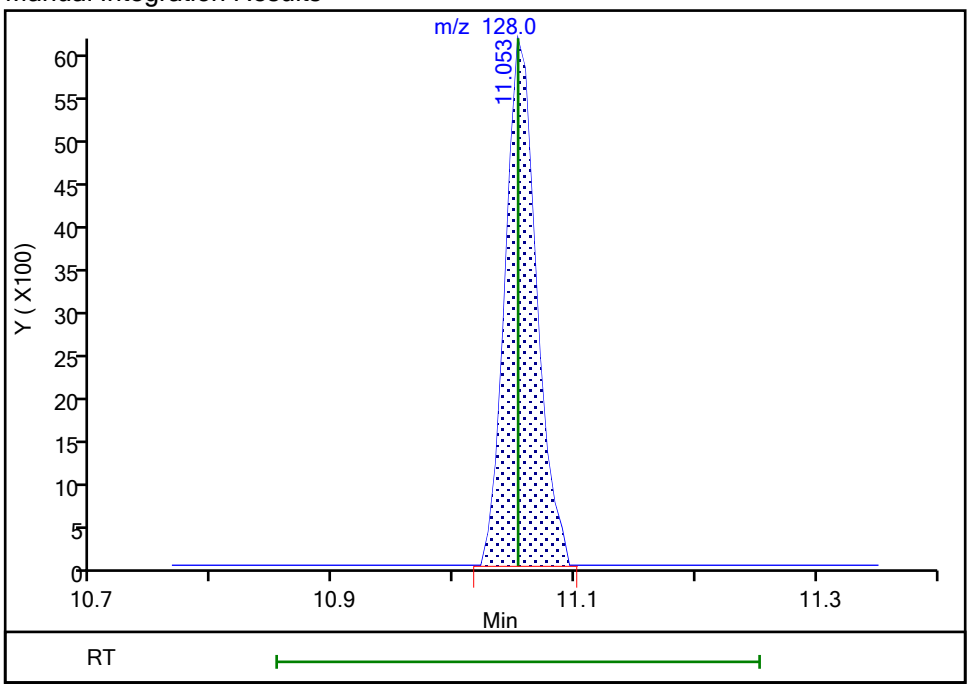
Not Detected
Expected RT: 11.05

Processing Integration Results



Manual Integration Results

RT: 11.05
Area: 11056
Amount: 0.347887
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:55:39 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

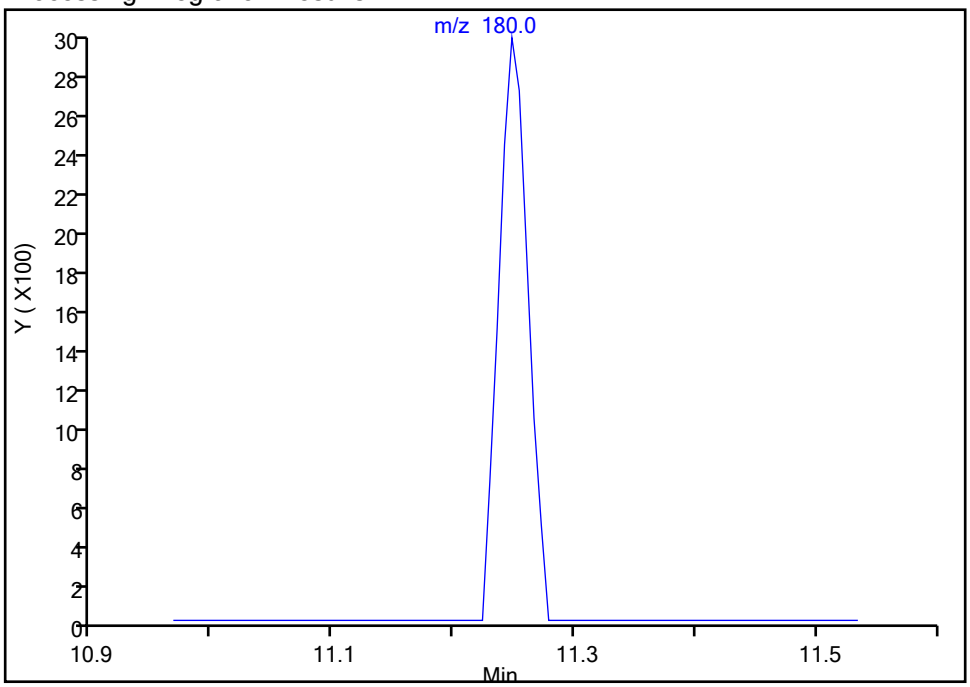
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

122 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

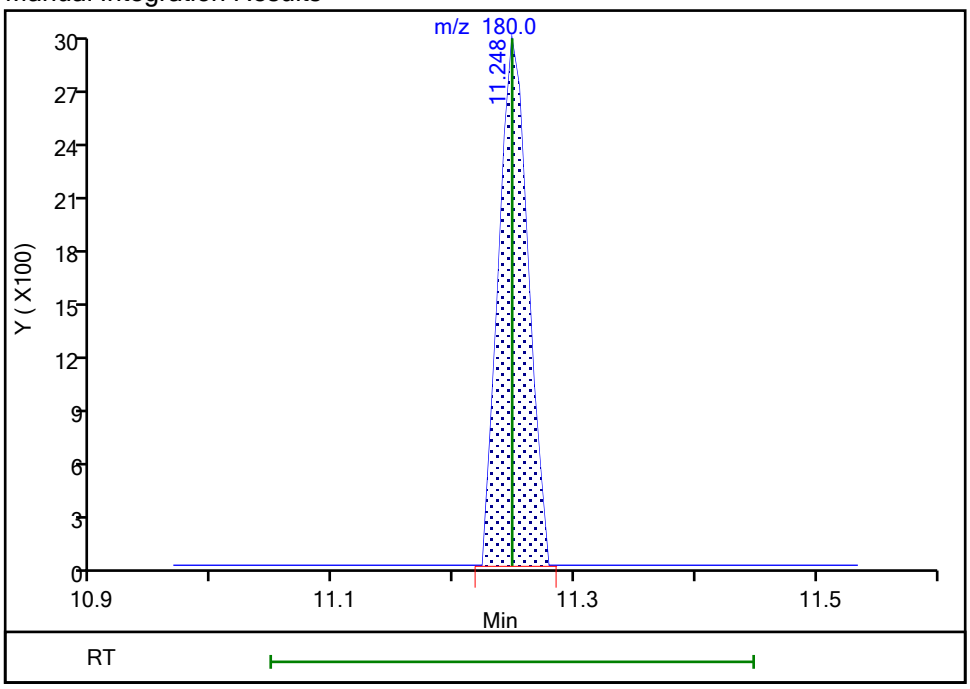
Not Detected
Expected RT: 11.25

Processing Integration Results



Manual Integration Results

RT: 11.25
Area: 4898
Amount: 0.377639
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:55:53 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

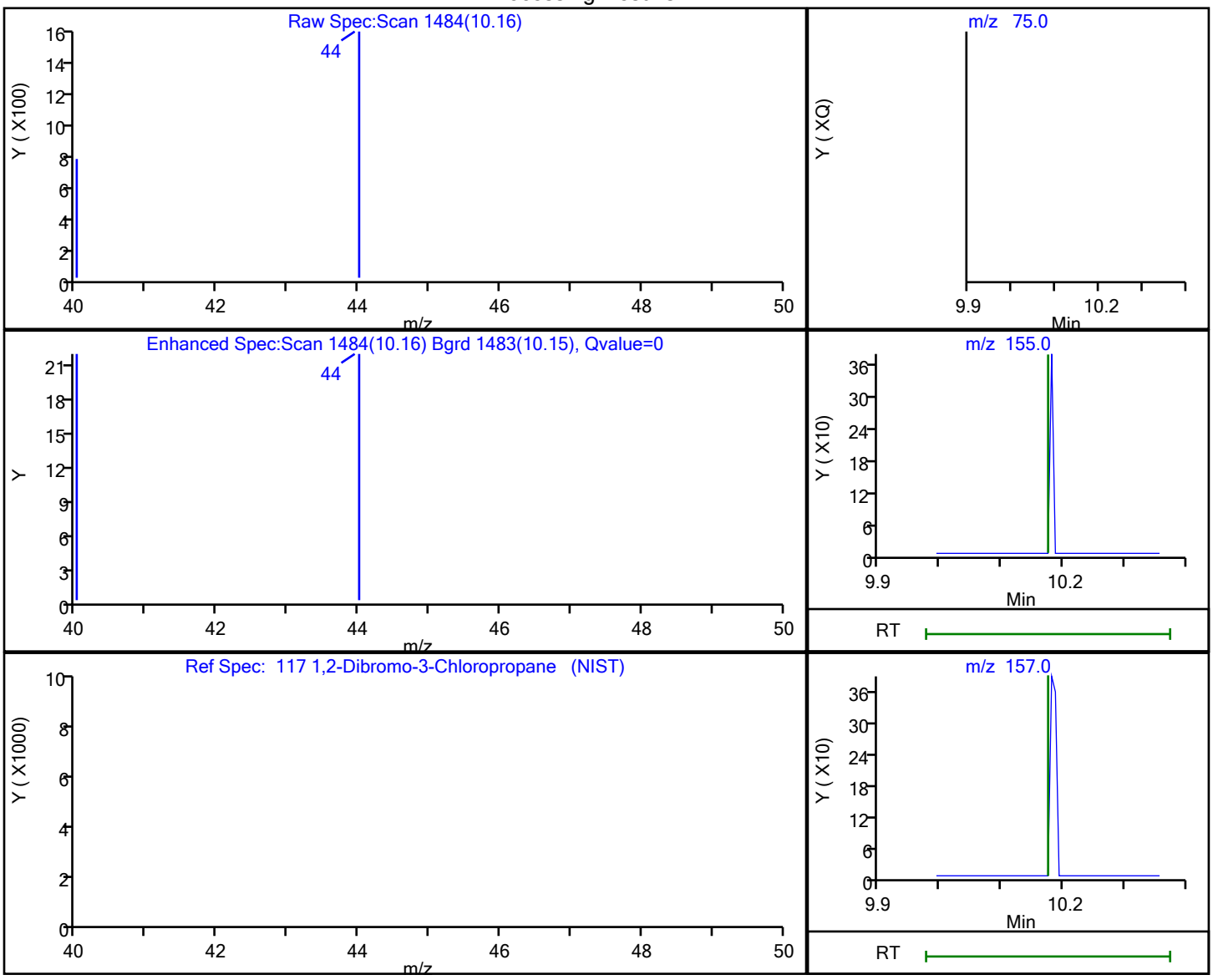
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3481.d
Injection Date: 07-Sep-2023 15:45:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 42 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
10.16	75.00	0	
10.18	155.00	0	
10.18	157.00	0	

Reviewer: WLL8, 08-Sep-2023 11:55:47 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3482.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Sep-2023 16:07:30 ALS Bottle#: 43 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0113624-014
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:47:38 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 11:57:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	99	136936	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	274612	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.157	0.006	95	302793	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	93	264426	25.0	26.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	100	138143	25.0	25.9	
$ 5 Toluene-d8 (Surr)	98	6.096	6.097	-0.001	94	638635	25.0	25.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	94	213289	25.0	25.1	
10 Dichlorodifluoromethane	85	1.189	1.183	0.006	97	9331	1.00	0.8150	
12 Chloromethane	50	1.354	1.354	0.000	98	17579	1.00	1.05	
13 Vinyl chloride	62	1.445	1.439	0.006	96	12232	1.00	0.9646	
144 Butadiene	54	1.457	1.451	0.006	89	10938	1.00	0.9203	
14 Bromomethane	94	1.744	1.738	0.006	83	8617	1.00	1.14	
15 Chloroethane	64	1.799	1.793	0.006	92	5921	1.00	0.99	
16 Dichlorofluoromethane	67	2.018	2.018	0.000	95	13516	1.00	0.9488	
17 Trichlorofluoromethane	101	1.994	2.024	-0.030	93	8815	1.00	0.7589	M
18 Ethyl ether	59	2.280	2.274	0.006	96	7634	1.00	1.00	
20 Acrolein	56	2.445	2.439	0.006	0	4827	5.00	5.07	M
22 1,1-Dichloroethene	96	2.487	2.481	0.006	94	6718	1.00	0.9282	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.481	2.481	0.000	75	6630	1.00	0.7902	
23 Acetone	43	2.591	2.585	0.006	99	18112	5.00	5.29	
25 Iodomethane	142	2.646	2.640	0.006	98	17761	1.00	0.9827	
26 Carbon disulfide	76	2.683	2.683	0.000	99	22210	1.00	0.9042	
28 3-Chloro-1-propene	41	2.823	2.823	0.000	87	12935	1.00	0.9356	
27 Methyl acetate	43	2.872	2.865	0.007	99	16145	2.00	2.03	
30 Methylene Chloride	84	2.963	2.957	0.006	97	9419	1.00	1.04	
31 2-Methyl-2-propanol	59	3.115	3.109	0.006	98	10173	10.0	8.92	
32 Methyl tert-butyl ether	73	3.152	3.146	0.006	99	23659	1.00	1.04	
34 trans-1,2-Dichloroethene	96	3.164	3.164	0.000	93	7827	1.00	0.9402	
33 Acrylonitrile	53	3.213	3.207	0.006	96	39843	10.0	10.1	
35 Hexane	57	3.341	3.341	0.000	94	9161	1.00	0.8346	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.536	3.530	0.006	95	15968	1.00	0.9835	
37 Vinyl acetate	43	3.591	3.579	0.012	97	31183	2.00	1.78	
44 2,2-Dichloropropane	77	3.987	3.981	0.006	90	8255	1.00	0.9383	
45 cis-1,2-Dichloroethene	96	4.018	4.012	0.006	83	8609	1.00	0.9314	
43 2-Butanone (MEK)	43	4.048	4.036	0.012	98	23072	5.00	5.09	
48 Chlorobromomethane	128	4.219	4.213	0.006	94	5982	1.00	1.05	
49 Tetrahydrofuran	42	4.231	4.225	0.006	87	6415	2.00	2.11	
50 Chloroform	83	4.280	4.274	0.006	95	16856	1.00	1.04	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	0	11081	1.00	0.9433	M
52 Cyclohexane	56	4.390	4.383	0.007	93	11869	1.00	0.8708	
55 Carbon tetrachloride	117	4.493	4.493	0.000	96	8534	1.00	0.8362	
54 1,1-Dichloropropene	75	4.505	4.499	0.006	92	10073	1.00	0.9739	
57 Benzene	78	4.670	4.670	0.000	94	27944	1.00	0.9890	
53 Isobutyl alcohol	43	4.676	4.670	0.006	46	8341	25.0	21.3	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	96	14297	1.00	1.05	
59 n-Heptane	43	4.816	4.816	0.000	92	9754	1.00	0.9257	
62 Trichloroethene	95	5.170	5.170	0.000	93	7834	1.00	0.9271	
64 Methylcyclohexane	83	5.267	5.267	0.000	95	9530	1.00	0.8254	
65 1,2-Dichloropropane	63	5.365	5.359	0.006	93	7796	1.00	0.9633	
66 1,4-Dioxane	88	5.475	5.469	0.006	0	691	20.0	10.9	M
67 Dibromomethane	93	5.475	5.475	0.000	95	6152	1.00	0.9772	
68 Dichlorobromomethane	83	5.590	5.591	-0.001	96	10135	1.00	0.9537	
69 2-Chloroethyl vinyl ether	63	5.810	5.804	0.006	87	3691	1.00	0.7750	
72 cis-1,3-Dichloropropene	75	5.926	5.920	0.006	92	9869	1.00	0.8909	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.023	0.006	97	39568	5.00	4.73	
74 Toluene	92	6.151	6.151	0.000	97	15416	1.00	0.9843	
77 trans-1,3-Dichloropropene	75	6.365	6.359	0.006	95	7817	1.00	0.8693	
75 Ethyl methacrylate	69	6.389	6.383	0.006	93	4843	1.00	0.7423	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	91	5247	1.00	0.9517	
81 Tetrachloroethene	166	6.572	6.566	0.006	95	7692	1.00	0.9502	
82 1,3-Dichloropropane	76	6.639	6.633	0.006	92	9652	1.00	1.00	
80 2-Hexanone	43	6.682	6.676	0.006	98	26752	5.00	5.31	
83 Chlorodibromomethane	129	6.822	6.822	0.000	87	7182	1.00	0.9022	
84 Ethylene Dibromide	107	6.913	6.907	0.006	96	7510	1.00	1.00	
87 Chlorobenzene	112	7.273	7.273	0.000	96	18424	1.00	1.00	
88 Ethylbenzene	91	7.340	7.334	0.006	98	26213	1.00	0.9444	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	85	6068	1.00	0.8382	
90 m-Xylene & p-Xylene	106	7.432	7.426	0.006	98	10189	1.00	0.9164	
91 o-Xylene	106	7.755	7.755	0.000	97	11289	1.00	0.9528	
92 Styrene	104	7.779	7.779	0.000	94	15937	1.00	0.8947	
95 Bromoform	173	7.974	7.974	0.000	93	4169	1.00	0.8275	
94 Isopropylbenzene	105	8.047	8.041	0.006	96	27109	1.00	0.8641	
101 Bromobenzene	156	8.334	8.334	0.000	87	8894	1.00	0.9562	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	93	9815	1.00	0.9706	
99 N-Propylbenzene	91	8.383	8.383	0.000	98	31864	1.00	0.8909	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.389	0.006	70	2001	1.00	0.7953	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	87	2303	1.00	0.8913	
103 2-Chlorotoluene	126	8.474	8.474	0.000	97	7659	1.00	0.9319	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	95	23371	1.00	0.8961	
105 4-Chlorotoluene	126	8.572	8.566	0.006	96	7359	1.00	0.9422	
106 tert-Butylbenzene	134	8.797	8.791	0.006	93	4225	1.00	0.7836	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	95	25418	1.00	0.9296	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	29133	1.00	0.8453	
110 4-Isopropyltoluene	119	9.090	9.090	0.000	96	25889	1.00	0.8484	
111 1,3-Dichlorobenzene	146	9.108	9.102	0.006	98	16157	1.00	0.9843	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	95	16484	1.00	0.9809	
115 n-Butylbenzene	91	9.437	9.437	0.000	98	23491	1.00	0.8777	
116 1,2-Dichlorobenzene	146	9.498	9.498	0.000	97	16635	1.00	0.9704	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.175	0.006	72	1433	1.00	0.7977	
119 1,2,4-Trichlorobenzene	180	10.846	10.840	0.006	93	13123	1.00	0.9185	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	94	5686	1.00	0.9025	
121 Naphthalene	128	11.053	11.053	0.000	97	34131	1.00	0.9682	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	95	13648	1.00	0.9487	
S 124 Xylenes, Total	1				0			1.87	
S 125 1,2-Dichloroethene, Total	1				0			1.87	
S 126 1,3-Dichloropropene, Total	1				0			1.76	
S 123 Total BTEX	1				0			4.79	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00242	Amount Added:	1.00	Units: uL	
GAS CORP mix_00583	Amount Added:	1.00	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

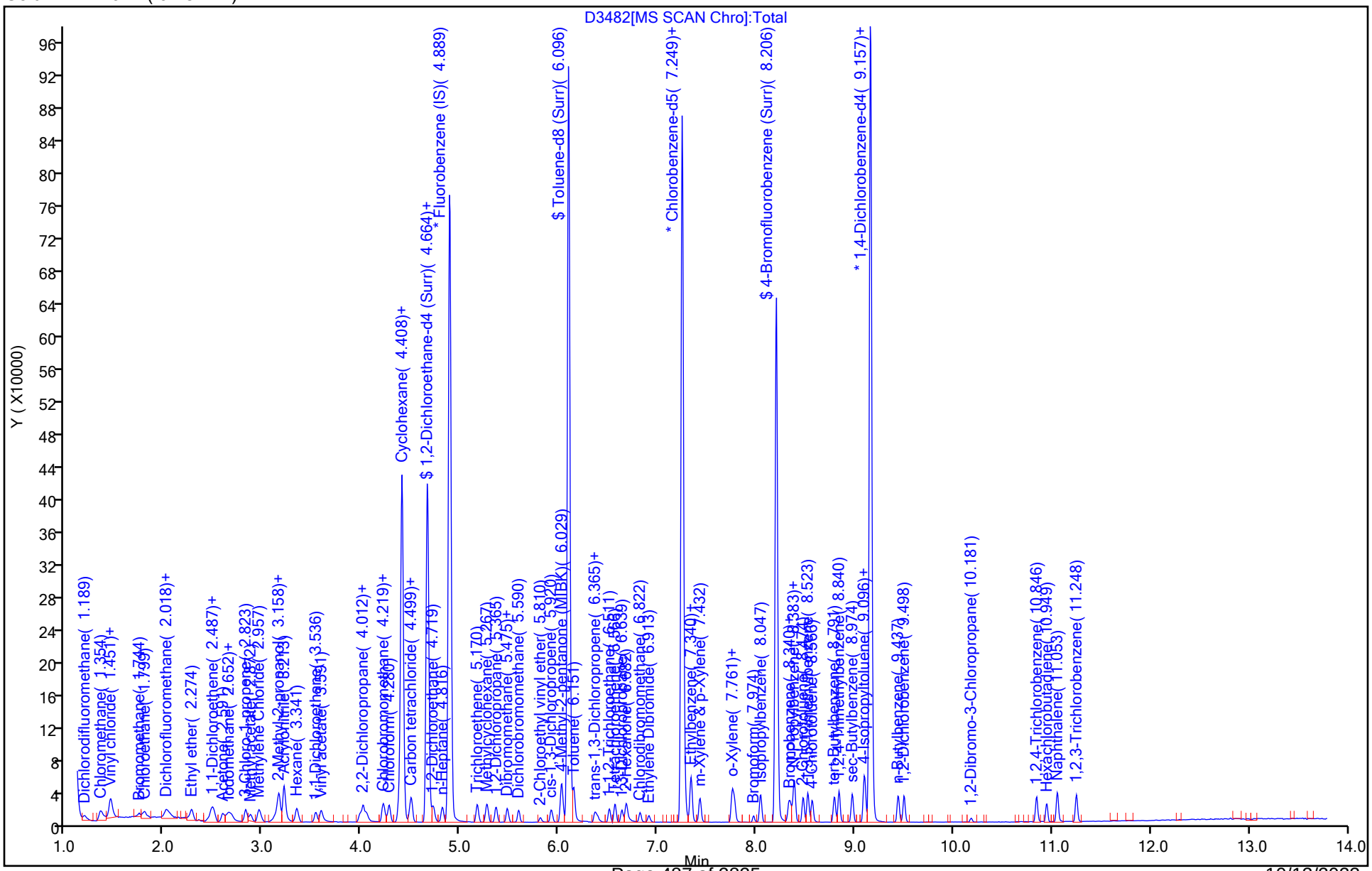
Report Date: 08-Sep-2023 12:47:39 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3482.d

Injection Date:	07-Sep-2023 16:07:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo

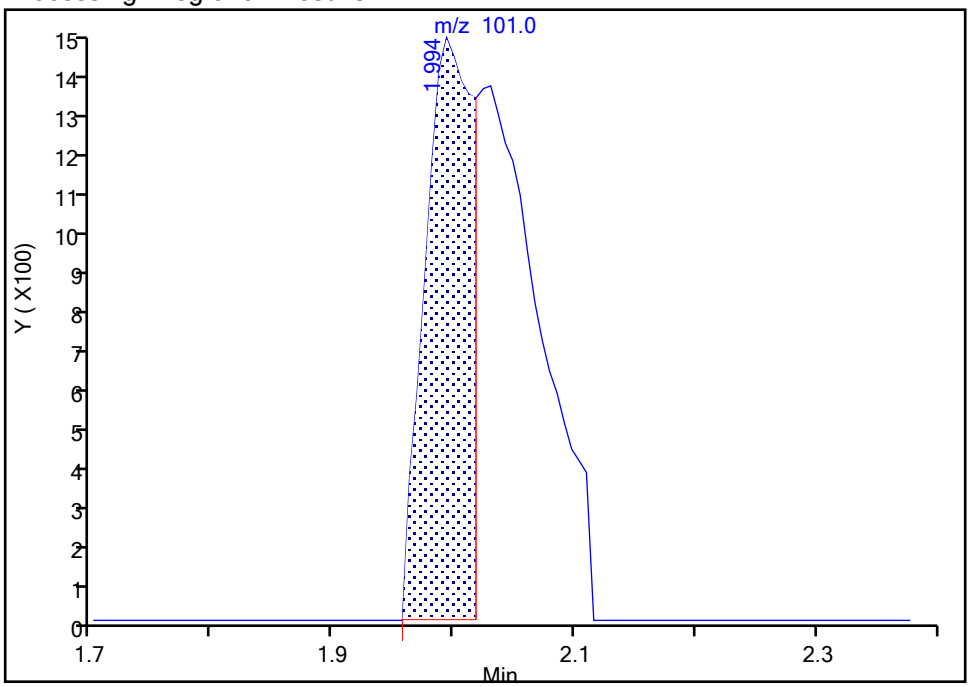
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3482.d
Injection Date: 07-Sep-2023 16:07:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 43 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

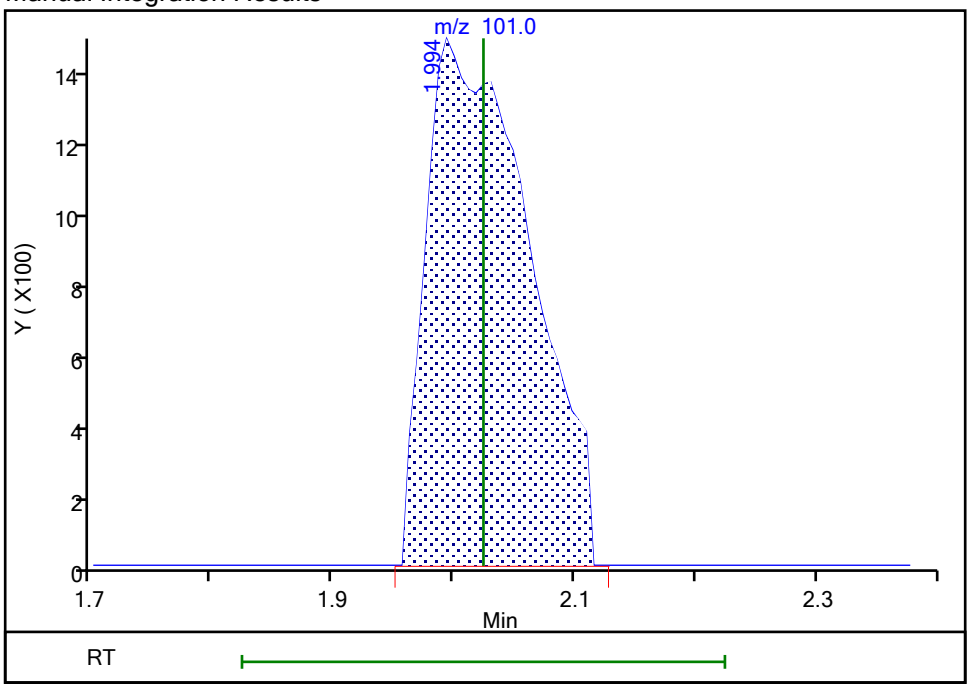
Processing Integration Results

RT: 1.99
Area: 4128
Amount: 0.661201
Amount Units: ug/L



Manual Integration Results

RT: 1.99
Area: 8815
Amount: 0.758872
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:56:32 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

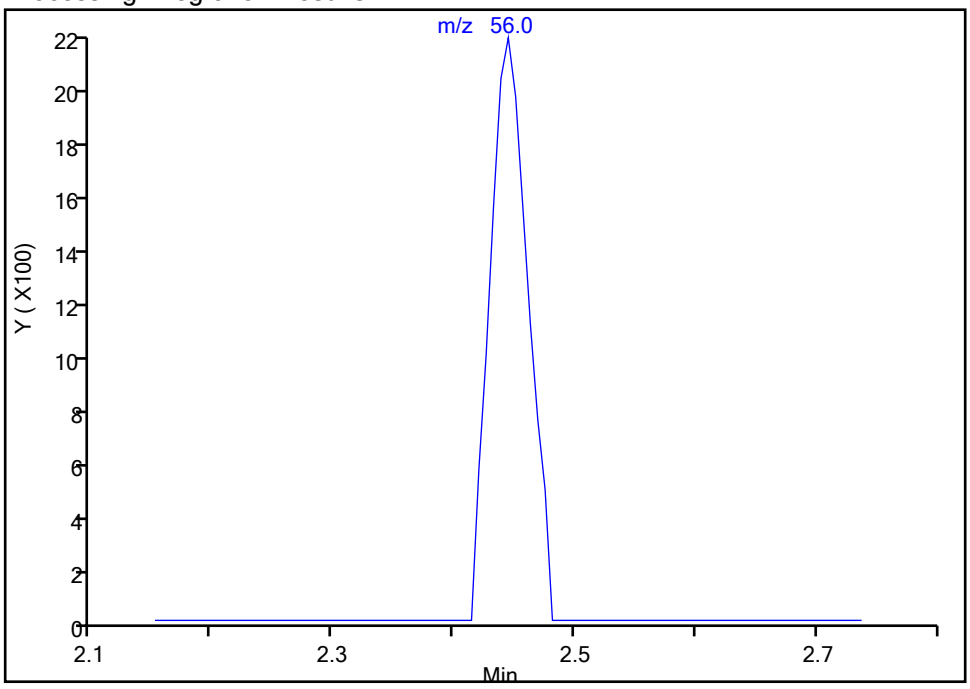
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3482.d
Injection Date: 07-Sep-2023 16:07:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 43 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

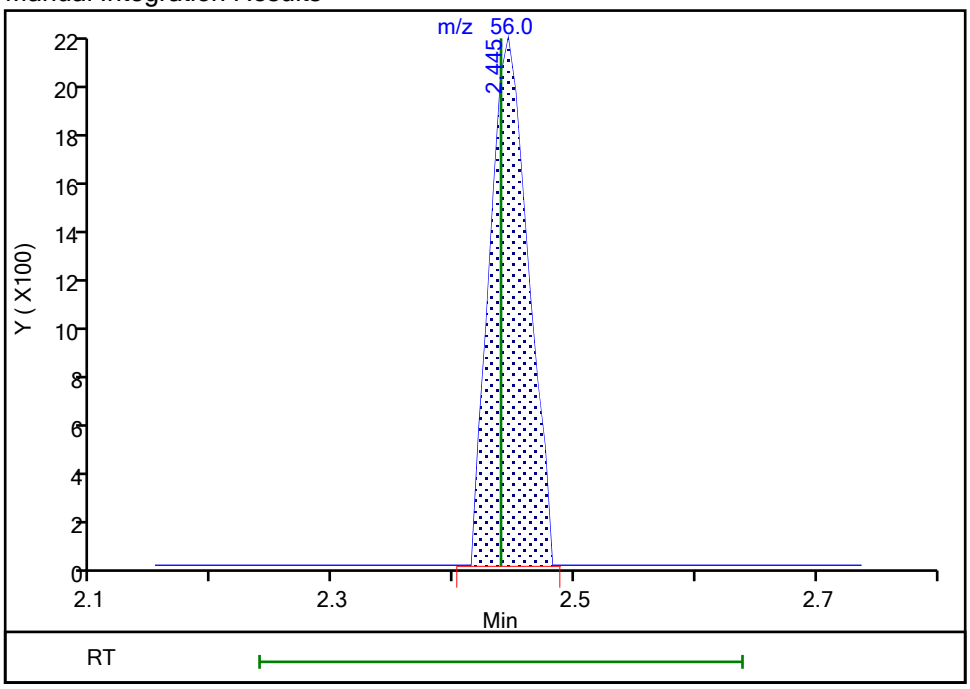
Not Detected
Expected RT: 2.44

Processing Integration Results



Manual Integration Results

RT: 2.44
Area: 4827
Amount: 5.073296
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:56:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

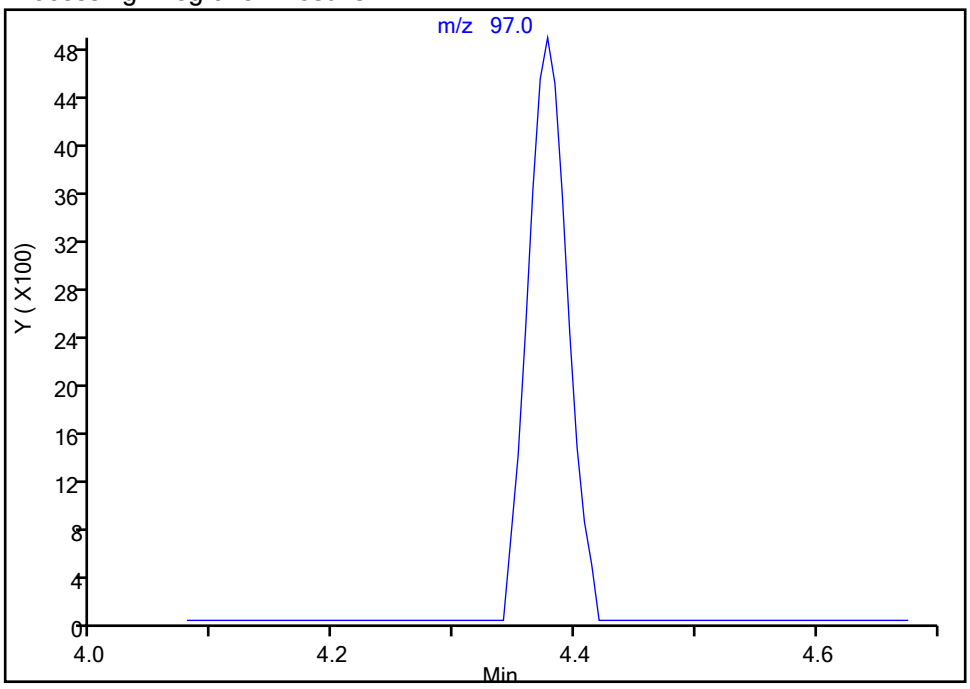
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3482.d
Injection Date: 07-Sep-2023 16:07:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 43 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

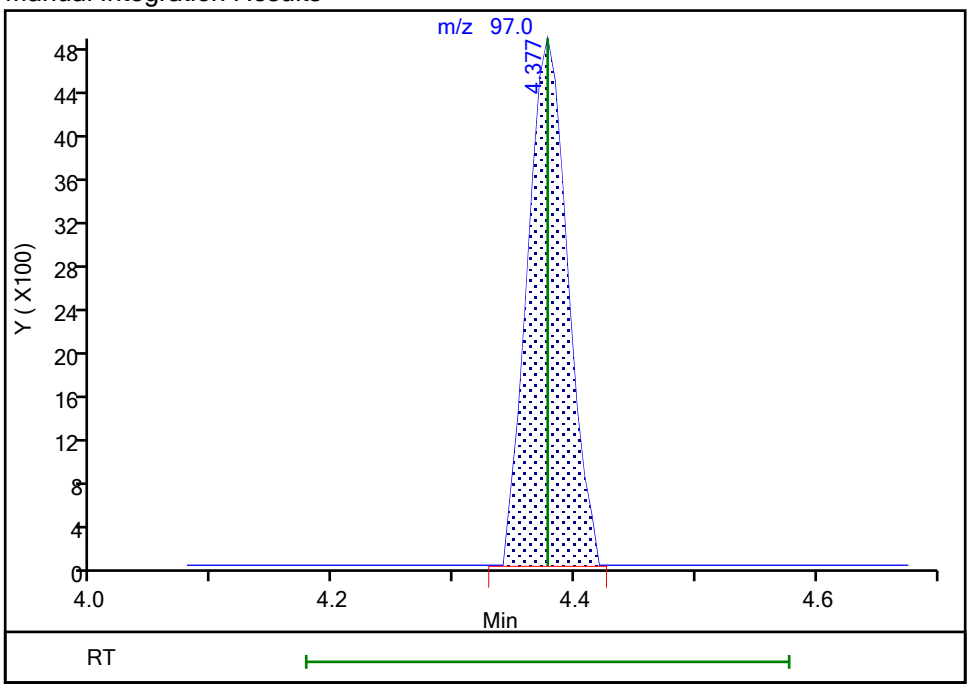
Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 11081
Amount: 0.943304
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:56:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

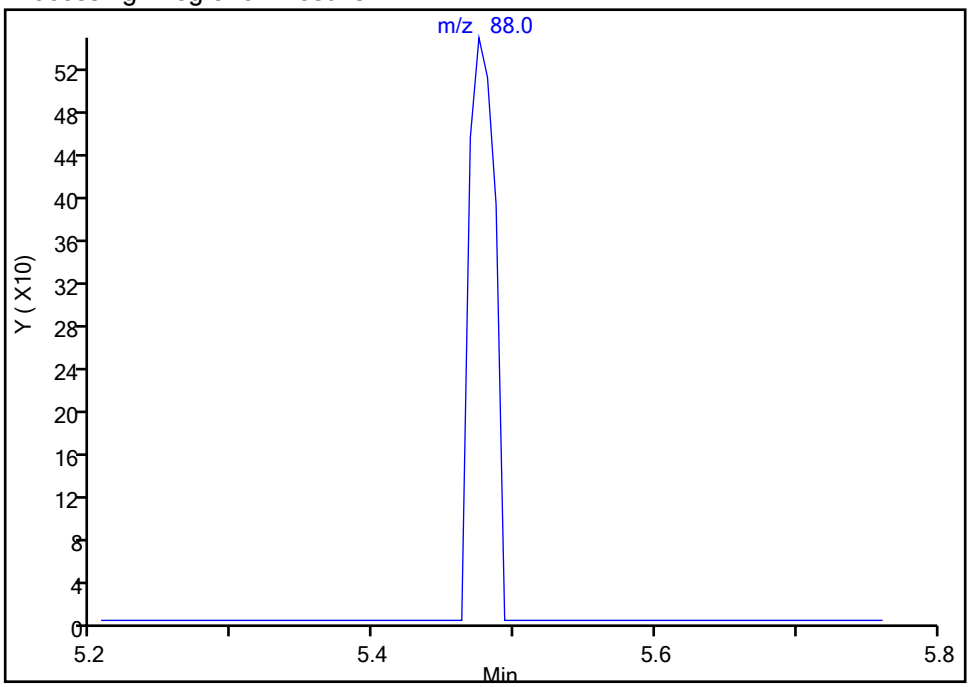
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3482.d
Injection Date: 07-Sep-2023 16:07:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 43 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

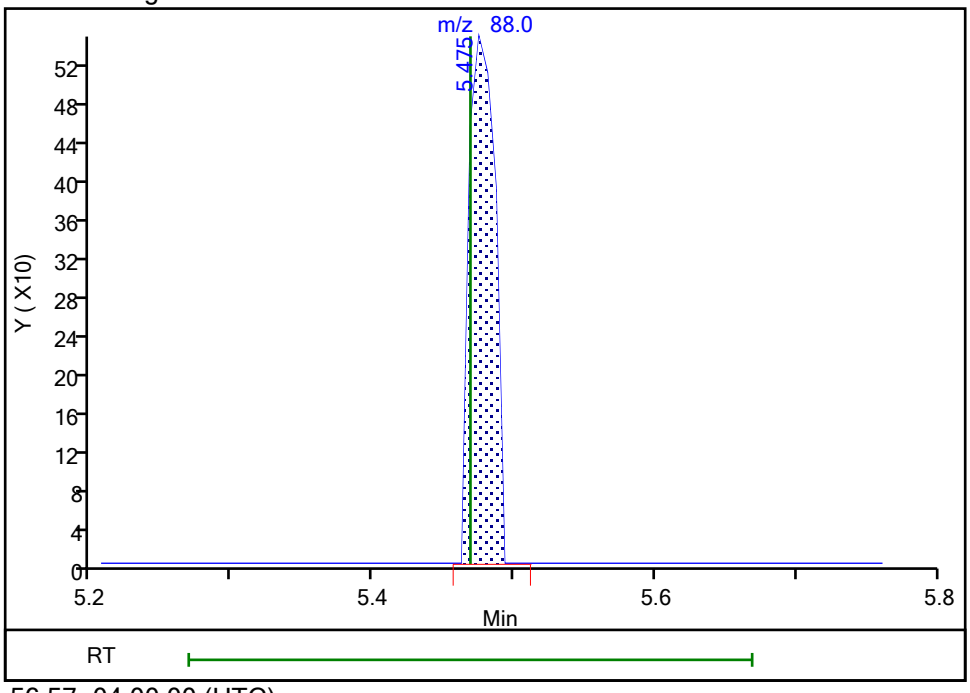
Not Detected
Expected RT: 5.47

Processing Integration Results



Manual Integration Results

RT: 5.47
Area: 691
Amount: 10.933435
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:56:57 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3483.d
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Sep-2023 16:29:30 ALS Bottle#: 44 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0113624-015
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:47:47 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 11:58:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	98	141411	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	285739	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.157	0.006	95	322938	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	93	264863	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	100	139224	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	6.096	6.097	-0.001	94	654701	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	95	228954	25.0	25.9	
10 Dichlorodifluoromethane	85	1.189	1.183	0.006	98	19908	2.00	1.68	
12 Chloromethane	50	1.353	1.354	-0.001	99	32934	2.00	1.91	
13 Vinyl chloride	62	1.439	1.439	0.000	97	24792	2.00	1.89	
144 Butadiene	54	1.451	1.451	0.000	90	21766	2.00	1.77	
14 Bromomethane	94	1.737	1.738	-0.001	89	13748	2.00	1.75	
15 Chloroethane	64	1.792	1.793	-0.001	96	11775	2.00	1.91	
16 Dichlorofluoromethane	67	2.018	2.018	0.000	97	27705	2.00	1.88	
17 Trichlorofluoromethane	101	1.987	2.024	-0.037	95	20153	2.00	1.68	M
18 Ethyl ether	59	2.274	2.274	0.000	98	14764	2.00	1.88	
20 Acrolein	56	2.445	2.439	0.006	98	9276	10.0	9.44	
22 1,1-Dichloroethene	96	2.481	2.481	0.000	94	14358	2.00	1.92	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.481	2.481	0.000	65	16397	2.00	1.89	
23 Acetone	43	2.591	2.585	0.006	98	33894	10.0	9.59	
25 Iodomethane	142	2.640	2.640	0.000	99	37454	2.00	2.01	
26 Carbon disulfide	76	2.676	2.683	-0.007	99	47511	2.00	1.87	
28 3-Chloro-1-propene	41	2.823	2.823	0.000	89	27854	2.00	1.95	
27 Methyl acetate	43	2.871	2.865	0.006	99	31330	4.00	3.82	
30 Methylene Chloride	84	2.957	2.957	0.000	98	18633	2.00	1.99	
31 2-Methyl-2-propanol	59	3.109	3.109	0.000	99	20595	20.0	17.5	
32 Methyl tert-butyl ether	73	3.152	3.146	0.006	100	45284	2.00	1.93	
34 trans-1,2-Dichloroethene	96	3.164	3.164	0.000	94	16737	2.00	1.95	
33 Acrylonitrile	53	3.207	3.207	0.000	97	78869	20.0	19.3	
35 Hexane	57	3.341	3.341	0.000	94	22508	2.00	1.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.530	3.530	0.000	96	33529	2.00	2.00	
37 Vinyl acetate	43	3.585	3.579	0.006	97	64343	4.00	3.56	
44 2,2-Dichloropropane	77	3.981	3.981	0.000	91	17297	2.00	1.90	
45 cis-1,2-Dichloroethene	96	4.017	4.012	0.005	84	18480	2.00	1.94	
43 2-Butanone (MEK)	43	4.048	4.036	0.012	98	45106	10.0	9.64	
48 Chlorobromomethane	128	4.213	4.213	0.000	96	11124	2.00	1.89	
49 Tetrahydrofuran	42	4.231	4.225	0.006	88	12399	4.00	3.95	
50 Chloroform	83	4.280	4.274	0.006	96	33332	2.00	1.99	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	0	23848	2.00	1.97	M
52 Cyclohexane	56	4.389	4.383	0.006	95	26862	2.00	1.91	
55 Carbon tetrachloride	117	4.493	4.493	0.000	97	19437	2.00	1.84	
54 1,1-Dichloropropene	75	4.505	4.499	0.006	91	20413	2.00	1.91	
57 Benzene	78	4.670	4.670	0.000	95	57246	2.00	1.96	
53 Isobutyl alcohol	43	4.676	4.670	0.006	48	16441	50.0	40.6	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	96	28191	2.00	2.01	
59 n-Heptane	43	4.816	4.816	0.000	95	19375	2.00	1.78	
62 Trichloroethene	95	5.170	5.170	0.000	95	17121	2.00	1.96	
64 Methylcyclohexane	83	5.267	5.267	0.000	97	23120	2.00	1.94	
65 1,2-Dichloropropane	63	5.359	5.359	0.000	94	15875	2.00	1.90	
66 1,4-Dioxane	88	5.475	5.469	0.005	0	2257	40.0	34.3	M
67 Dibromomethane	93	5.475	5.475	-0.001	96	12706	2.00	1.95	
68 Dichlorobromomethane	83	5.590	5.591	-0.001	96	20096	2.00	1.83	
69 2-Chloroethyl vinyl ether	63	5.810	5.804	0.006	91	8492	2.00	1.73	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	92	20913	2.00	1.83	
73 4-Methyl-2-pentanone (MIBK)	43	6.023	6.023	0.000	99	82240	10.0	9.45	
74 Toluene	92	6.151	6.151	0.000	97	31774	2.00	1.95	
77 trans-1,3-Dichloropropene	75	6.365	6.359	0.006	97	17064	2.00	1.82	
75 Ethyl methacrylate	69	6.389	6.383	0.006	93	11699	2.00	1.72	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	10845	2.00	1.89	
81 Tetrachloroethene	166	6.572	6.566	0.006	96	16656	2.00	1.98	
82 1,3-Dichloropropane	76	6.639	6.633	0.006	93	19407	2.00	1.94	
80 2-Hexanone	43	6.682	6.676	0.006	96	53390	10.0	10.2	
83 Chlorodibromomethane	129	6.822	6.822	0.000	89	14466	2.00	1.75	
84 Ethylene Dibromide	107	6.913	6.907	0.006	99	14749	2.00	1.89	
87 Chlorobenzene	112	7.273	7.273	0.000	95	37823	2.00	1.96	
88 Ethylbenzene	91	7.340	7.334	0.006	99	57217	2.00	1.98	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	92	13134	2.00	1.74	
90 m-Xylene & p-Xylene	106	7.431	7.426	0.005	98	22827	2.00	1.97	
91 o-Xylene	106	7.755	7.755	0.000	97	24191	2.00	1.96	
92 Styrene	104	7.779	7.779	0.000	95	34968	2.00	1.89	
95 Bromoform	173	7.974	7.974	0.000	90	8775	2.00	1.67	
94 Isopropylbenzene	105	8.047	8.041	0.006	97	58548	2.00	1.75	
101 Bromobenzene	156	8.334	8.334	0.000	89	18956	2.00	1.91	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	95	19519	2.00	1.81	
99 N-Propylbenzene	91	8.382	8.383	-0.001	98	68771	2.00	1.80	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.389	0.006	78	4488	2.00	1.67	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	89	5005	2.00	1.82	
103 2-Chlorotoluene	126	8.474	8.474	0.000	97	16300	2.00	1.86	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	94	51145	2.00	1.84	
105 4-Chlorotoluene	126	8.565	8.566	-0.001	97	15377	2.00	1.85	
106 tert-Butylbenzene	134	8.791	8.791	0.000	93	10131	2.00	1.76	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	95	54659	2.00	1.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	64497	2.00	1.75	
110 4-Isopropyltoluene	119	9.090	9.090	0.000	97	59032	2.00	1.81	
111 1,3-Dichlorobenzene	146	9.102	9.102	0.000	99	33739	2.00	1.93	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	95	34499	2.00	1.92	
115 n-Butylbenzene	91	9.437	9.437	0.000	98	52014	2.00	1.82	
116 1,2-Dichlorobenzene	146	9.498	9.498	0.000	98	35522	2.00	1.94	
117 1,2-Dibromo-3-Chloropropane	75	10.175	10.175	0.000	78	2857	2.00	1.49	
119 1,2,4-Trichlorobenzene	180	10.845	10.840	0.005	95	28866	2.00	1.89	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	97	12401	2.00	1.85	
121 Naphthalene	128	11.053	11.053	0.000	97	70008	2.00	1.86	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	96	29234	2.00	1.91	
S 124 Xylenes, Total	1				0			3.94	
S 125 1,2-Dichloroethene, Total	1				0			3.88	
S 126 1,3-Dichloropropene, Total	1				0			3.65	
S 123 Total BTEX	1				0			9.83	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00242	Amount Added:	2.00	Units: uL	
GAS CORP mix_00583	Amount Added:	2.00	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 08-Sep-2023 12:47:48 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3483.d

Injection Date:	07-Sep-2023 16:29:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 2			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)

10/13/2023
10:08 AM

Manual Integration/User Assign Peak Report

Eurofins Buffalo

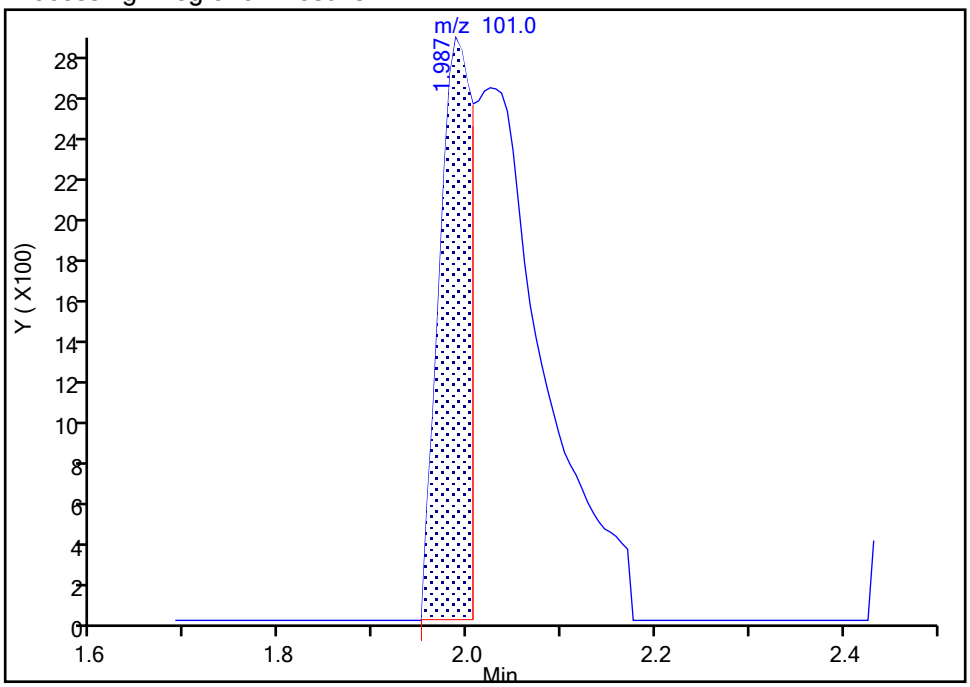
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3483.d
Injection Date: 07-Sep-2023 16:29:30 Instrument ID: HP5975D
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 44 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

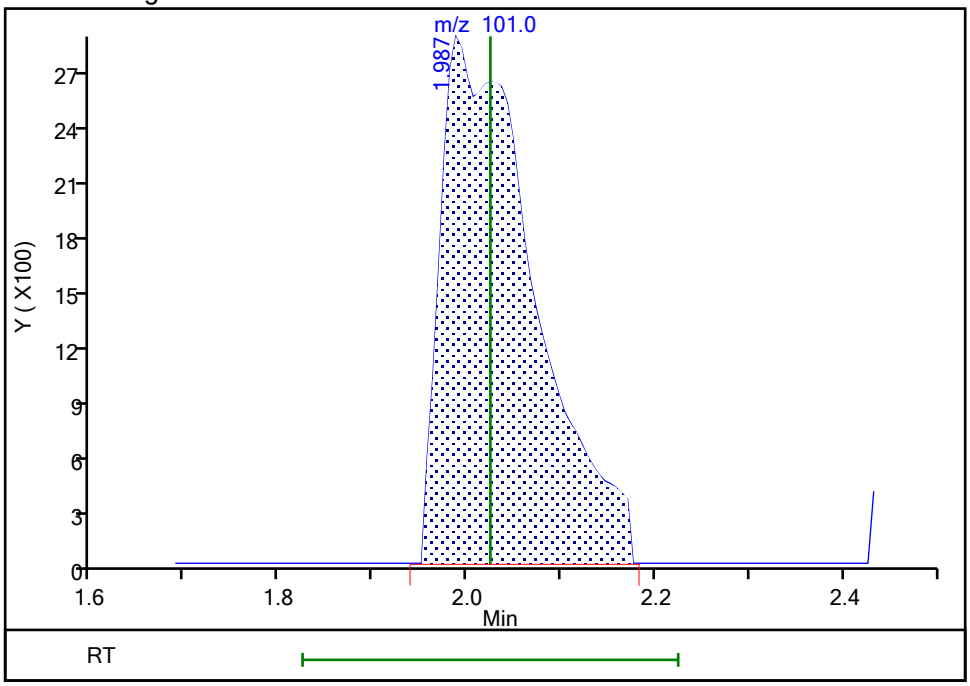
Processing Integration Results

RT: 1.99
Area: 7024
Amount: 0.995997
Amount Units: ug/L



Manual Integration Results

RT: 1.99
Area: 20153
Amount: 1.680044
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:57:49 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

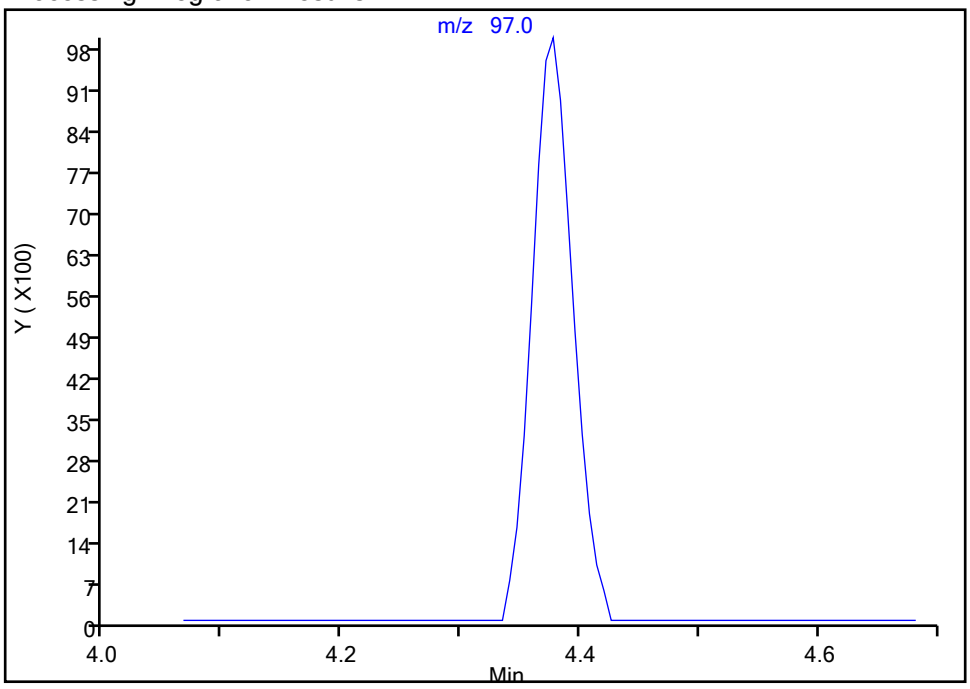
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3483.d
Injection Date: 07-Sep-2023 16:29:30 Instrument ID: HP5975D
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 44 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

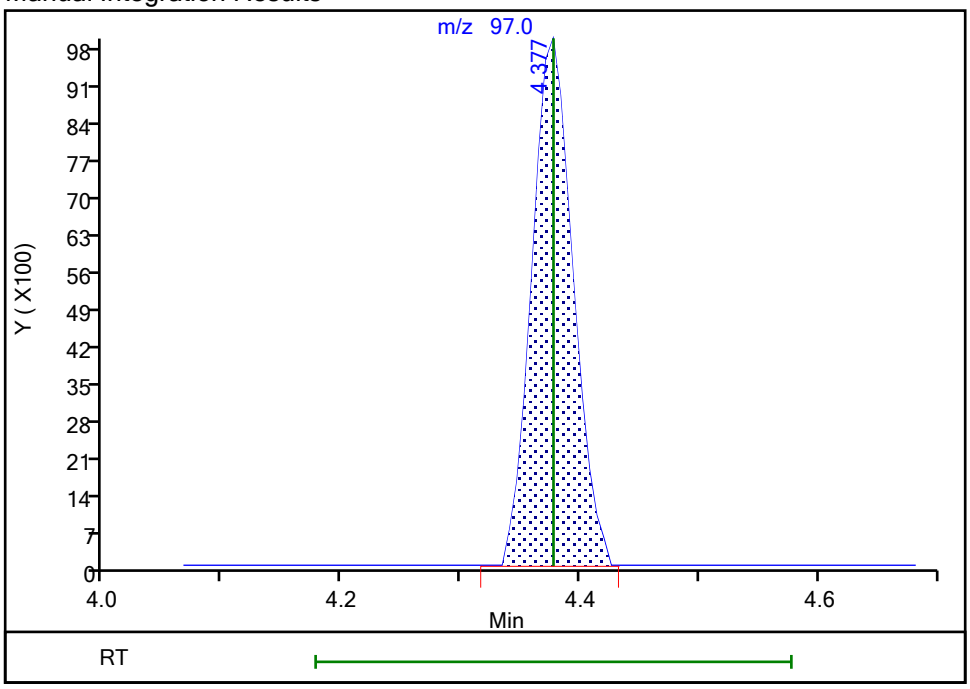
Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 23848
Amount: 1.965889
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:58:00 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

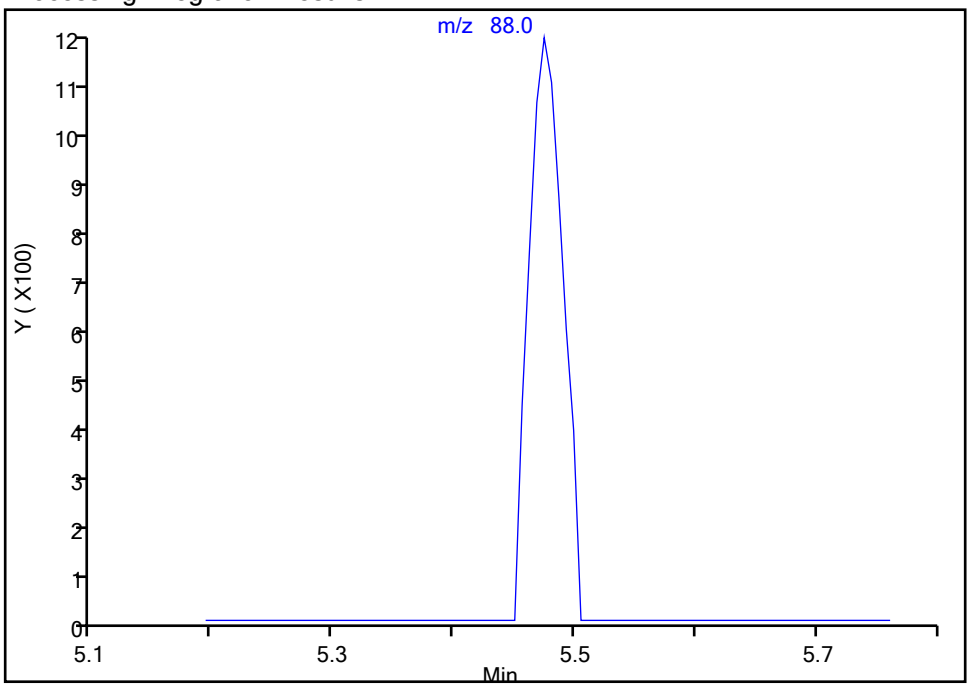
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3483.d
Injection Date: 07-Sep-2023 16:29:30 Instrument ID: HP5975D
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 44 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

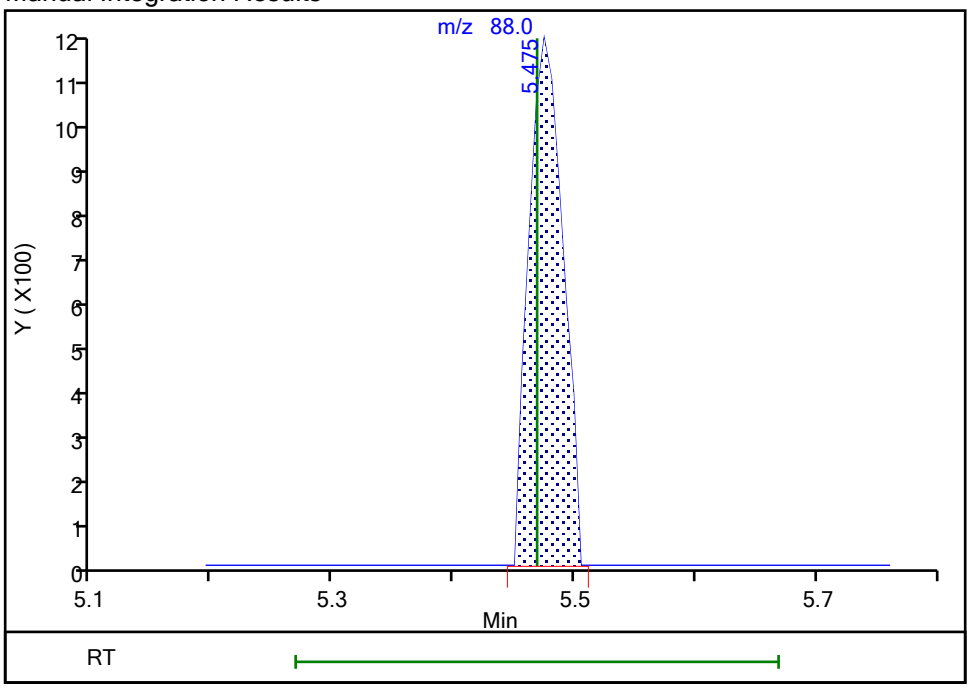
Not Detected
Expected RT: 5.47

Processing Integration Results



Manual Integration Results

RT: 5.47
Area: 2257
Amount: 34.321017
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:58:08 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3484.d
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Sep-2023 16:51:30 ALS Bottle#: 45 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0113624-016
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:47:56 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 11:59:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	98	134012	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	262306	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	95	284934	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	93	249080	25.0	25.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	100	129963	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	6.096	6.096	0.000	94	605288	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	95	205516	25.0	25.3	
10 Dichlorodifluoromethane	85	1.189	1.189	0.000	99	55595	5.00	4.96	
12 Chloromethane	50	1.354	1.354	0.000	99	81877	5.00	5.00	
13 Vinyl chloride	62	1.439	1.439	0.000	98	63437	5.00	5.11	
144 Butadiene	54	1.451	1.451	0.000	89	58590	5.00	5.04	
14 Bromomethane	94	1.738	1.738	0.000	92	32473	5.00	4.37	
15 Chloroethane	64	1.799	1.799	0.000	98	29143	5.00	5.00	
16 Dichlorofluoromethane	67	2.018	2.018	0.000	97	69038	5.00	4.95	
17 Trichlorofluoromethane	101	2.006	2.006	0.000	98	57163	5.00	5.03	M
18 Ethyl ether	59	2.274	2.274	0.000	98	37197	5.00	4.99	
20 Acrolein	56	2.445	2.445	0.000	98	23417	25.0	25.1	
22 1,1-Dichloroethene	96	2.487	2.487	0.000	93	33200	5.00	4.69	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.487	2.487	0.000	65	38597	5.00	4.70	
23 Acetone	43	2.591	2.591	0.000	98	81599	25.0	24.4	
25 Iodomethane	142	2.640	2.640	0.000	98	84424	5.00	4.77	
26 Carbon disulfide	76	2.683	2.683	0.000	100	108525	5.00	4.51	
28 3-Chloro-1-propene	41	2.823	2.823	0.000	88	62212	5.00	4.60	
27 Methyl acetate	43	2.872	2.872	0.000	100	80200	10.0	10.3	
30 Methylene Chloride	84	2.957	2.957	0.000	98	42537	5.00	4.78	
31 2-Methyl-2-propanol	59	3.115	3.115	0.000	98	53104	50.0	47.6	
32 Methyl tert-butyl ether	73	3.152	3.152	0.000	100	108642	5.00	4.89	
34 trans-1,2-Dichloroethene	96	3.164	3.164	0.000	94	38126	5.00	4.68	
33 Acrylonitrile	53	3.207	3.207	0.000	97	200142	50.0	51.7	
35 Hexane	57	3.341	3.341	0.000	94	51108	5.00	4.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.536	3.536	0.000	97	76027	5.00	4.78	
37 Vinyl acetate	43	3.585	3.585	0.000	97	169256	10.0	9.87	
44 2,2-Dichloropropane	77	3.987	3.987	0.000	91	39688	5.00	4.61	
45 cis-1,2-Dichloroethene	96	4.018	4.018	0.000	83	42618	5.00	4.71	
43 2-Butanone (MEK)	43	4.042	4.042	0.000	98	108171	25.0	24.4	
48 Chlorobromomethane	128	4.213	4.213	0.000	96	26141	5.00	4.68	
49 Tetrahydrofuran	42	4.231	4.231	0.000	89	30129	10.0	10.1	
50 Chloroform	83	4.280	4.280	0.000	95	74501	5.00	4.70	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	98	54116	5.00	4.71	
52 Cyclohexane	56	4.390	4.390	0.000	95	63000	5.00	4.72	
55 Carbon tetrachloride	117	4.493	4.493	0.000	97	43550	5.00	4.36	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	92	46266	5.00	4.57	
57 Benzene	78	4.670	4.670	0.000	96	132855	5.00	4.80	
53 Isobutyl alcohol	43	4.676	4.676	0.000	90	41459	125.0	108.1	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	96	65116	5.00	4.91	
59 n-Heptane	43	4.816	4.816	0.000	96	48076	5.00	4.66	
62 Trichloroethene	95	5.170	5.170	0.000	96	37721	5.00	4.56	
64 Methylcyclohexane	83	5.267	5.267	0.000	97	52707	5.00	4.66	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	93	36760	5.00	4.64	
66 1,4-Dioxane	88	5.475	5.475	0.000	0	5073	100.0	84.0	M
67 Dibromomethane	93	5.475	5.475	0.000	94	29788	5.00	4.83	
68 Dichlorobromomethane	83	5.590	5.590	0.000	97	48863	5.00	4.70	
69 2-Chloroethyl vinyl ether	63	5.810	5.810	0.000	92	21211	5.00	4.55	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	92	50603	5.00	4.67	
73 4-Methyl-2-pentanone (MIBK)	43	6.023	6.023	0.000	98	206387	25.0	25.8	
74 Toluene	92	6.151	6.151	0.000	98	72965	5.00	4.88	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	96	40280	5.00	4.69	
75 Ethyl methacrylate	69	6.389	6.389	0.000	94	29853	5.00	4.79	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	94	26018	5.00	4.94	
81 Tetrachloroethene	166	6.566	6.566	0.000	96	36062	5.00	4.66	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	92	46019	5.00	5.01	
80 2-Hexanone	43	6.676	6.676	0.000	99	127410	25.0	26.5	
83 Chlorodibromomethane	129	6.822	6.822	0.000	90	36134	5.00	4.75	
84 Ethylene Dibromide	107	6.913	6.913	0.000	98	36057	5.00	5.04	
87 Chlorobenzene	112	7.273	7.273	0.000	97	85721	5.00	4.85	
88 Ethylbenzene	91	7.340	7.340	0.000	99	130055	5.00	4.91	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	94	33027	5.00	4.78	
90 m-Xylene & p-Xylene	106	7.432	7.432	0.000	99	51558	5.00	4.85	
91 o-Xylene	106	7.755	7.755	0.000	97	55763	5.00	4.93	
92 Styrene	104	7.779	7.779	0.000	95	82947	5.00	4.88	
95 Bromoform	173	7.974	7.974	0.000	93	21341	5.00	4.43	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	138676	5.00	4.70	
101 Bromobenzene	156	8.334	8.334	0.000	90	41504	5.00	4.74	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	95	48182	5.00	5.06	
99 N-Propylbenzene	91	8.383	8.383	0.000	99	157597	5.00	4.68	
98 trans-1,4-Dichloro-2-butene	53	8.389	8.389	0.000	80	11330	5.00	4.79	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	89	12185	5.00	5.01	
103 2-Chlorotoluene	126	8.474	8.474	0.000	97	36785	5.00	4.76	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	94	119797	5.00	4.88	
105 4-Chlorotoluene	126	8.566	8.566	0.000	97	35705	5.00	4.86	
106 tert-Butylbenzene	134	8.791	8.791	0.000	93	22962	5.00	4.53	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	95	123139	5.00	4.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	153172	5.00	4.72	
110 4-Isopropyltoluene	119	9.090	9.090	0.000	98	134858	5.00	4.70	
111 1,3-Dichlorobenzene	146	9.102	9.102	0.000	99	76117	5.00	4.93	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	77178	5.00	4.88	
115 n-Butylbenzene	91	9.437	9.437	0.000	98	119396	5.00	4.74	
116 1,2-Dichlorobenzene	146	9.498	9.498	0.000	98	80713	5.00	5.00	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	82	8044	5.00	4.76	
119 1,2,4-Trichlorobenzene	180	10.839	10.839	0.000	94	66688	5.00	4.96	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	97	29466	5.00	4.97	
121 Naphthalene	128	11.053	11.053	0.000	97	170989	5.00	5.15	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	96	69786	5.00	5.15	
S 124 Xylenes, Total	1				0			9.78	
S 125 1,2-Dichloroethene, Total	1				0			9.39	
S 126 1,3-Dichloropropene, Total	1				0			9.36	
S 123 Total BTEX	1				0			24.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00242	Amount Added:	5.00	Units: uL	
GAS CORP mix_00583	Amount Added:	5.00	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

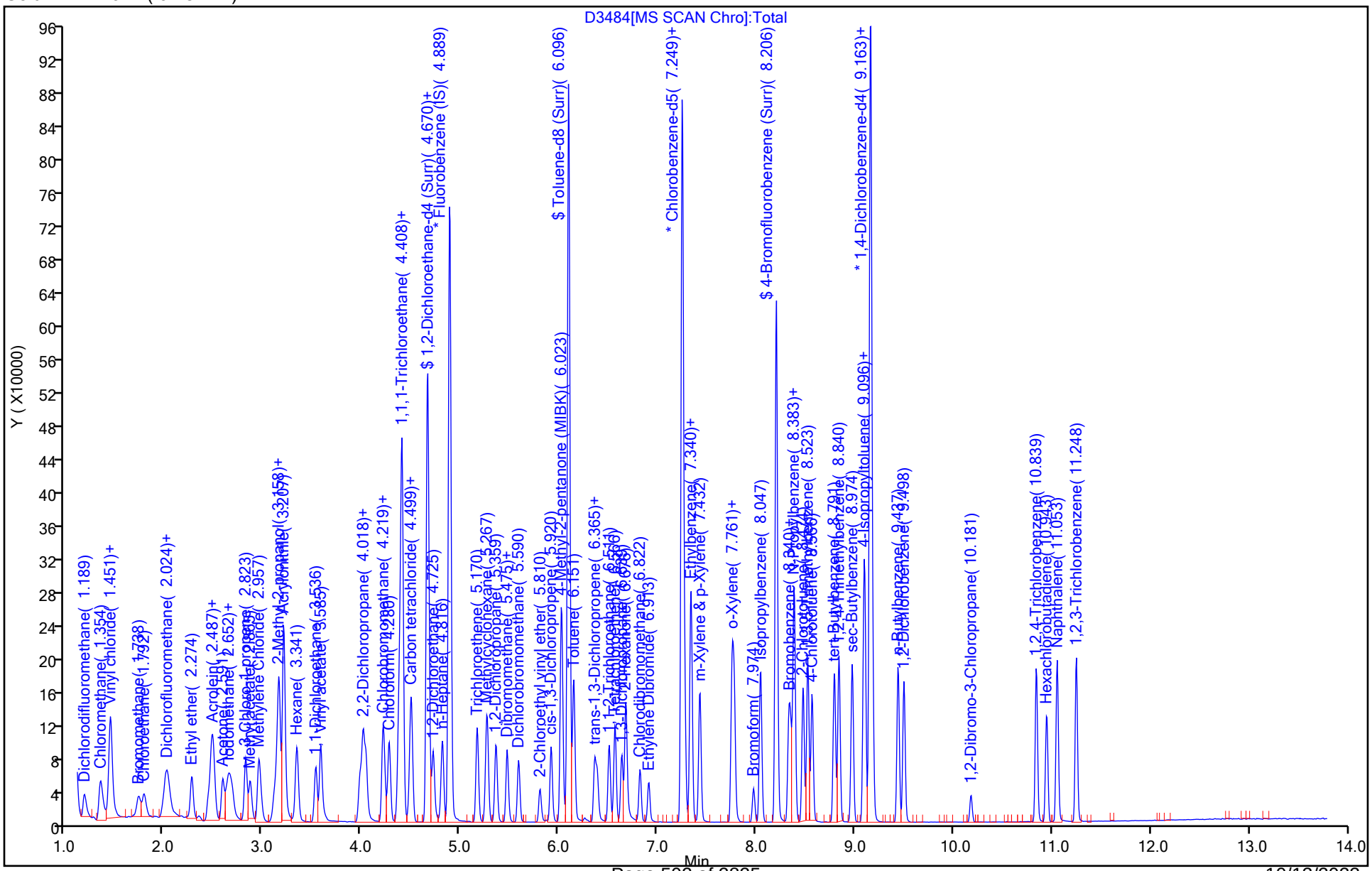
Report Date: 08-Sep-2023 12:47:58 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3484.d

Injection Date:	07-Sep-2023 16:51:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo

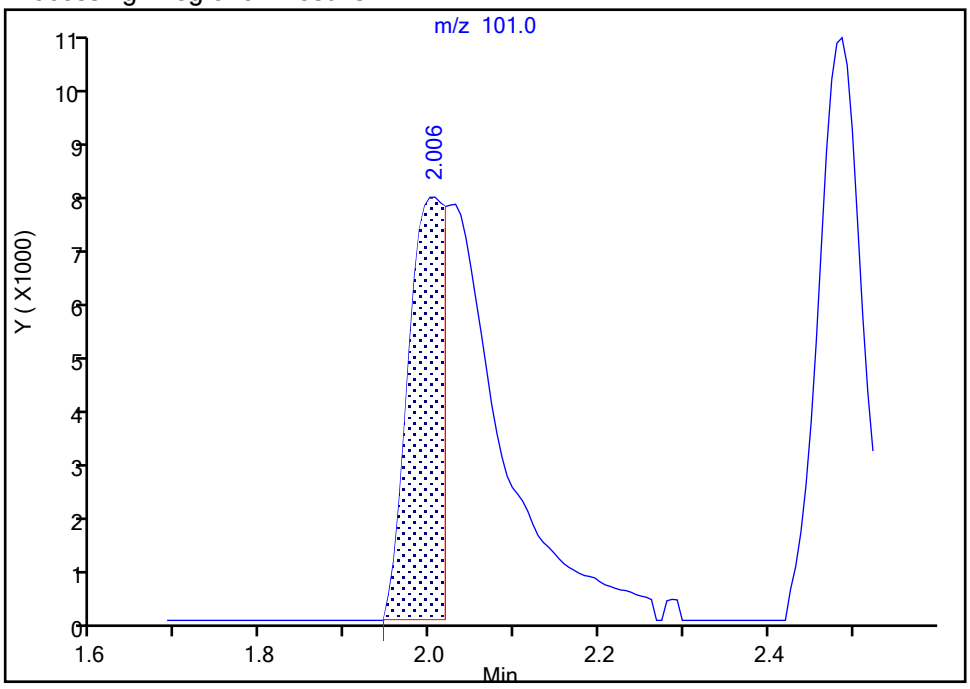
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3484.d
Injection Date: 07-Sep-2023 16:51:30 Instrument ID: HP5975D
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 45 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

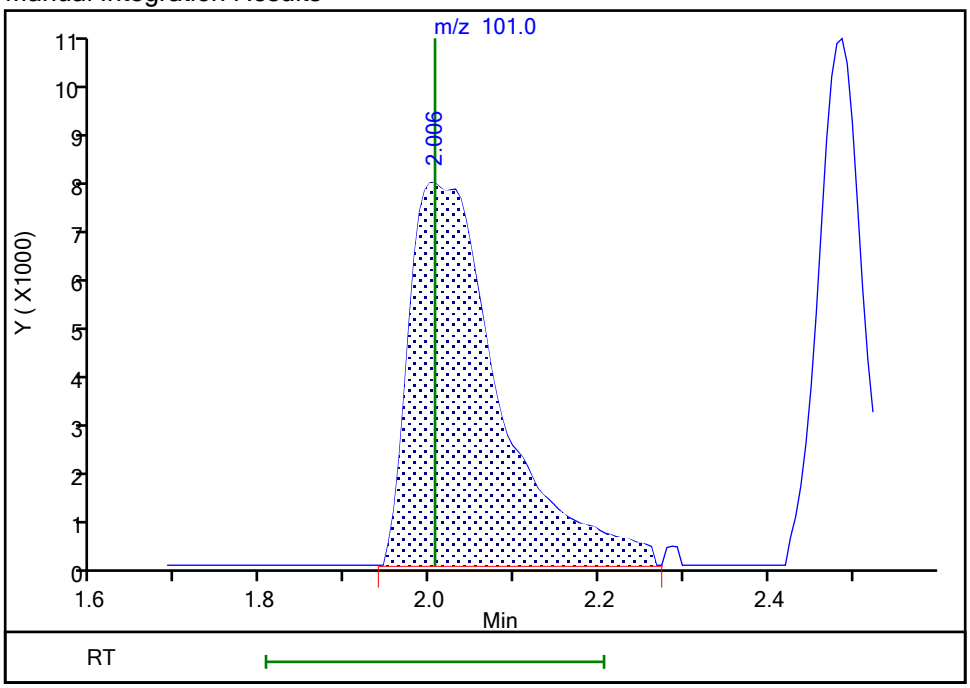
Processing Integration Results

RT: 2.01
Area: 23092
Amount: 3.095081
Amount Units: ug/L



Manual Integration Results

RT: 2.01
Area: 57163
Amount: 5.028465
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:58:52 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

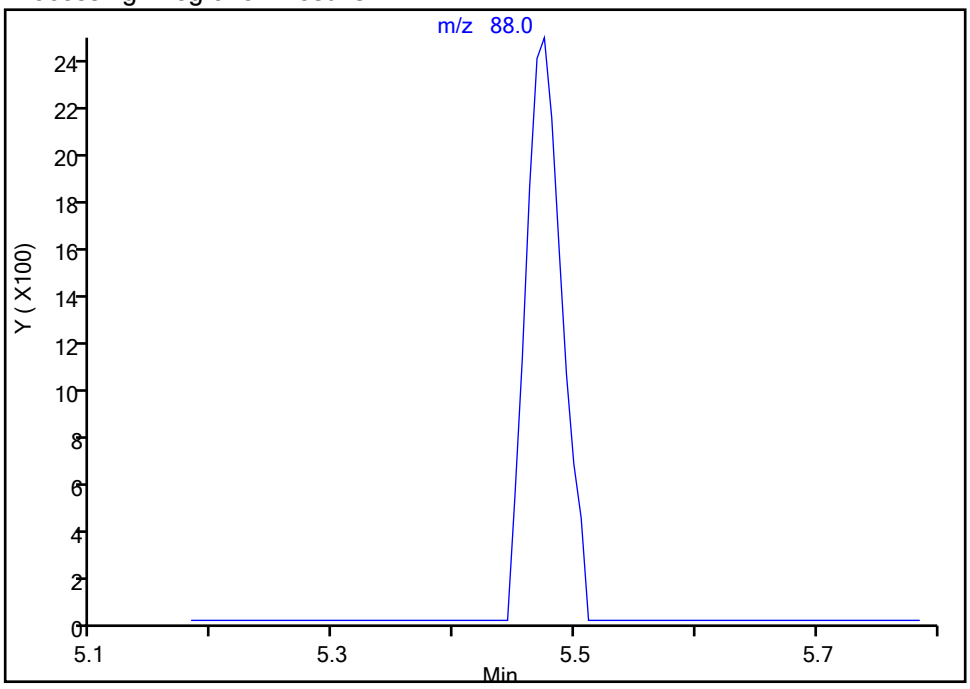
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3484.d
Injection Date: 07-Sep-2023 16:51:30 Instrument ID: HP5975D
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 45 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

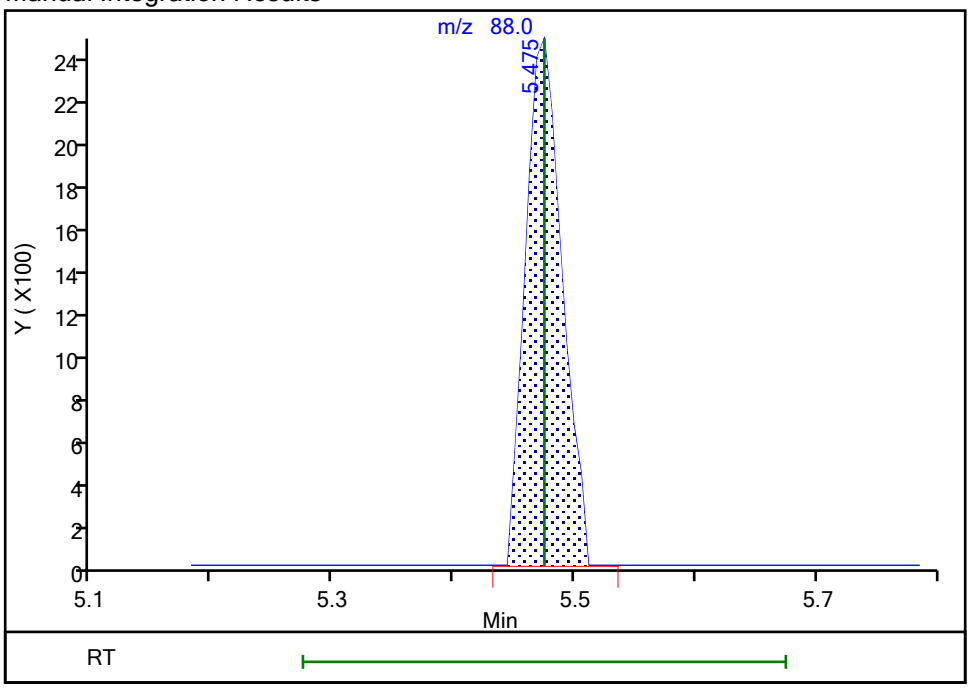
Not Detected
Expected RT: 5.47

Processing Integration Results



Manual Integration Results

RT: 5.47
Area: 5073
Amount: 84.033944
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:59:06 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3485.d
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Sep-2023 17:13:30 ALS Bottle#: 46 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0113624-017
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:48:01 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 12:00:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	98	131276	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	258261	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	95	276135	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	92	239009	25.0	24.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	99	127443	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	6.096	6.096	0.000	94	598168	25.0	25.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	94	200783	25.0	25.1	
10 Dichlorodifluoromethane	85	1.189	1.189	0.000	99	94892	10.0	8.65	
12 Chloromethane	50	1.353	1.354	-0.001	99	148906	10.0	9.28	
13 Vinyl chloride	62	1.445	1.439	0.006	98	115729	10.0	9.52	
144 Butadiene	54	1.457	1.451	0.006	91	103049	10.0	9.04	
14 Bromomethane	94	1.744	1.738	0.006	91	68113	10.0	9.36	
15 Chloroethane	64	1.798	1.799	-0.001	97	55075	10.0	9.65	
17 Trichlorofluoromethane	101	2.024	2.006	0.018	96	103109	10.0	9.26	M
16 Dichlorofluoromethane	67	2.018	2.018	0.000	98	132581	10.0	9.71	
18 Ethyl ether	59	2.274	2.274	0.000	98	70850	10.0	9.70	
20 Acrolein	56	2.445	2.445	0.000	99	45261	50.0	49.6	
22 1,1-Dichloroethene	96	2.487	2.487	0.000	94	64728	10.0	9.33	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.481	2.487	-0.006	84	71901	10.0	8.94	
23 Acetone	43	2.591	2.591	0.000	99	156514	50.0	47.7	
25 Iodomethane	142	2.646	2.640	0.006	99	165453	10.0	9.55	
26 Carbon disulfide	76	2.682	2.683	-0.001	100	214509	10.0	9.11	
28 3-Chloro-1-propene	41	2.823	2.823	0.000	89	125993	10.0	9.51	
27 Methyl acetate	43	2.865	2.872	-0.007	100	154629	20.0	20.3	
30 Methylene Chloride	84	2.957	2.957	0.000	98	83393	10.0	9.55	
31 2-Methyl-2-propanol	59	3.115	3.115	0.000	99	110216	100.0	100.8	
32 Methyl tert-butyl ether	73	3.152	3.152	0.000	99	213584	10.0	9.82	
34 trans-1,2-Dichloroethene	96	3.164	3.164	0.000	94	74998	10.0	9.40	
33 Acrylonitrile	53	3.207	3.207	0.000	97	385011	100.0	101.6	
35 Hexane	57	3.341	3.341	0.000	94	91973	10.0	8.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.536	3.536	0.000	97	148269	10.0	9.53	
37 Vinyl acetate	43	3.585	3.585	0.000	97	331755	20.0	19.8	
44 2,2-Dichloropropane	77	3.987	3.987	0.000	91	78447	10.0	9.30	
45 cis-1,2-Dichloroethene	96	4.018	4.018	0.000	83	84160	10.0	9.50	
43 2-Butanone (MEK)	43	4.042	4.042	0.000	98	216123	50.0	49.7	
48 Chlorobromomethane	128	4.213	4.213	0.000	97	52483	10.0	9.59	
49 Tetrahydrofuran	42	4.231	4.231	0.000	90	59730	20.0	20.5	
50 Chloroform	83	4.280	4.280	0.000	96	147001	10.0	9.46	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	98	106418	10.0	9.45	
52 Cyclohexane	56	4.389	4.390	-0.001	96	116334	10.0	8.90	
55 Carbon tetrachloride	117	4.493	4.493	0.000	98	86611	10.0	8.85	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	93	91269	10.0	9.20	
57 Benzene	78	4.670	4.670	0.000	97	260941	10.0	9.63	
53 Isobutyl alcohol	43	4.676	4.676	0.000	93	93404	250.0	248.7	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	97	126841	10.0	9.75	
59 n-Heptane	43	4.816	4.816	0.000	96	92124	10.0	9.12	
62 Trichloroethene	95	5.170	5.170	0.000	95	76603	10.0	9.46	
64 Methylcyclohexane	83	5.267	5.267	0.000	97	98371	10.0	8.89	
65 1,2-Dichloropropane	63	5.359	5.365	-0.006	93	75706	10.0	9.76	
66 1,4-Dioxane	88	5.475	5.475	0.000	38	12429	200.0	209.1	
67 Dibromomethane	93	5.475	5.475	0.000	96	58713	10.0	9.73	
68 Dichlorobromomethane	83	5.590	5.590	0.000	97	100132	10.0	9.83	
69 2-Chloroethyl vinyl ether	63	5.804	5.810	-0.006	93	44712	10.0	9.79	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	92	104372	10.0	9.83	
73 4-Methyl-2-pentanone (MIBK)	43	6.023	6.023	0.000	98	412342	50.0	52.4	
74 Toluene	92	6.151	6.151	0.000	98	144269	10.0	9.79	
77 trans-1,3-Dichloropropene	75	6.359	6.365	-0.006	96	86325	10.0	10.2	
75 Ethyl methacrylate	69	6.389	6.389	0.000	93	63361	10.0	10.3	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	94	52020	10.0	10.0	
81 Tetrachloroethene	166	6.566	6.566	0.000	96	71930	10.0	9.45	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	93	91611	10.0	10.1	
80 2-Hexanone	43	6.676	6.676	0.000	98	249246	50.0	52.6	
83 Chlorodibromomethane	129	6.822	6.822	0.000	89	74769	10.0	9.99	
84 Ethylene Dibromide	107	6.907	6.913	-0.006	98	72811	10.0	10.3	
87 Chlorobenzene	112	7.273	7.273	0.000	97	170029	10.0	9.77	
88 Ethylbenzene	91	7.340	7.340	0.000	99	257950	10.0	9.88	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	95	67746	10.0	9.95	
90 m-Xylene & p-Xylene	106	7.431	7.432	-0.001	98	102812	10.0	9.83	
91 o-Xylene	106	7.755	7.755	0.000	97	112336	10.0	10.1	
92 Styrene	104	7.779	7.779	0.000	95	166279	10.0	9.93	
95 Bromoform	173	7.974	7.974	0.000	96	46226	10.0	9.76	
94 Isopropylbenzene	105	8.041	8.047	-0.006	96	279674	10.0	9.77	
101 Bromobenzene	156	8.334	8.334	0.000	90	81739	10.0	9.64	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	95	94154	10.0	10.2	
99 N-Propylbenzene	91	8.383	8.383	0.000	99	316297	10.0	9.70	
98 trans-1,4-Dichloro-2-butene	53	8.389	8.389	0.000	81	23710	10.0	10.3	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	89	24453	10.0	10.4	
103 2-Chlorotoluene	126	8.474	8.474	0.000	97	75151	10.0	10.0	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	94	238536	10.0	10.0	
105 4-Chlorotoluene	126	8.565	8.566	-0.001	97	71724	10.0	10.1	
106 tert-Butylbenzene	134	8.797	8.791	0.006	93	46844	10.0	9.53	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	96	250263	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	305431	10.0	9.72	
110 4-Isopropyltoluene	119	9.090	9.090	0.000	98	269429	10.0	9.68	
111 1,3-Dichlorobenzene	146	9.102	9.102	0.000	99	147357	10.0	9.84	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	152509	10.0	9.95	
115 n-Butylbenzene	91	9.437	9.437	0.000	98	237721	10.0	9.74	
116 1,2-Dichlorobenzene	146	9.498	9.498	0.000	98	155778	10.0	9.96	
117 1,2-Dibromo-3-Chloropropane	75	10.175	10.181	-0.006	85	16825	10.0	10.3	
119 1,2,4-Trichlorobenzene	180	10.839	10.839	0.000	94	132911	10.0	10.2	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	56439	10.0	9.82	
121 Naphthalene	128	11.053	11.053	0.000	97	335594	10.0	10.4	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	95	133200	10.0	10.2	
S 124 Xylenes, Total	1				0			19.9	
S 125 1,2-Dichloroethene, Total	1				0			18.9	
S 126 1,3-Dichloropropene, Total	1				0			20.0	
S 123 Total BTEX	1				0			49.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00242	Amount Added:	5.00	Units: uL	
GAS CORP mix_00583	Amount Added:	5.00	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

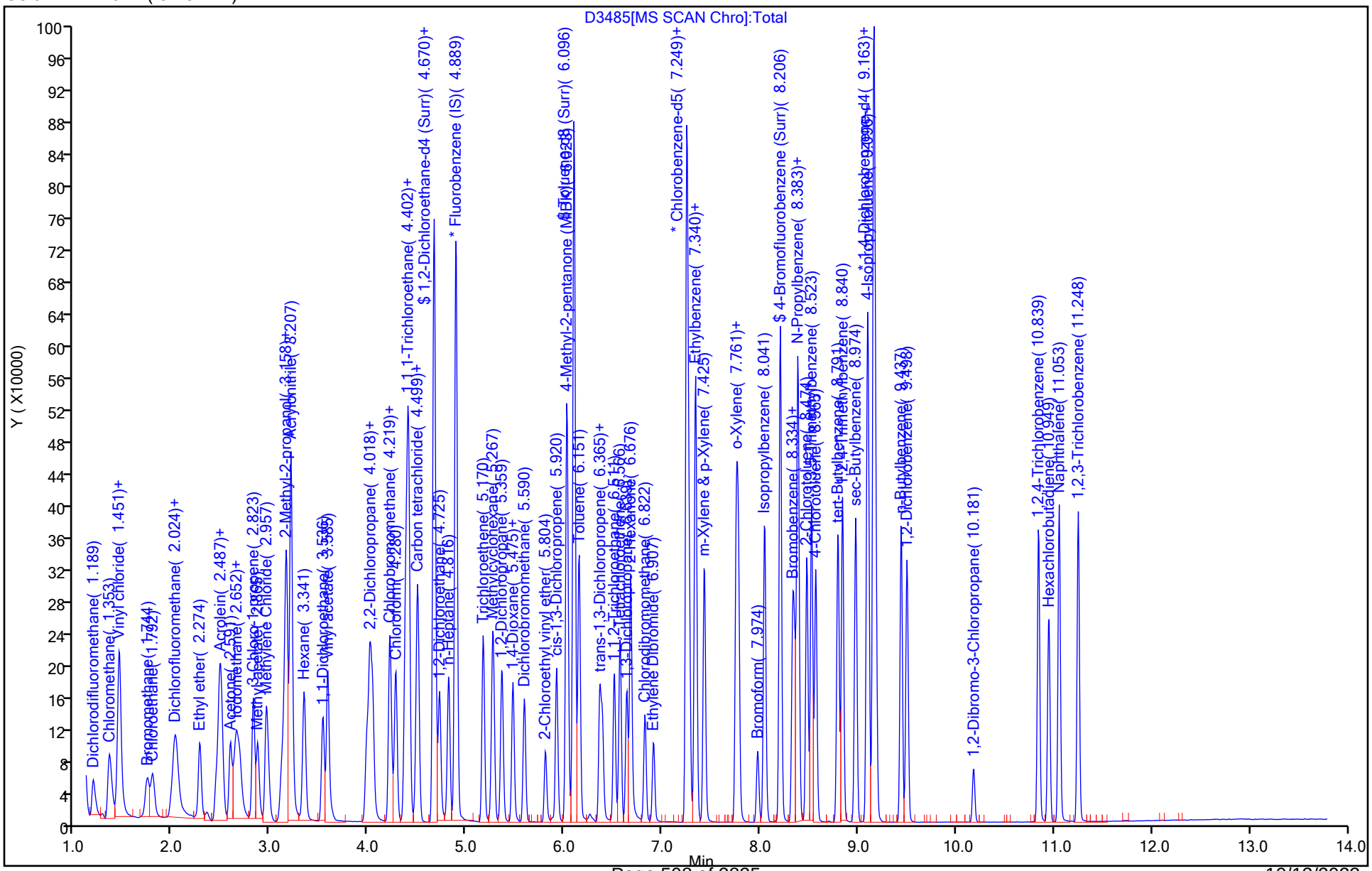
Report Date: 08-Sep-2023 12:48:02 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3485.d

Injection Date:	07-Sep-2023 17:13:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 4			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	46
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo

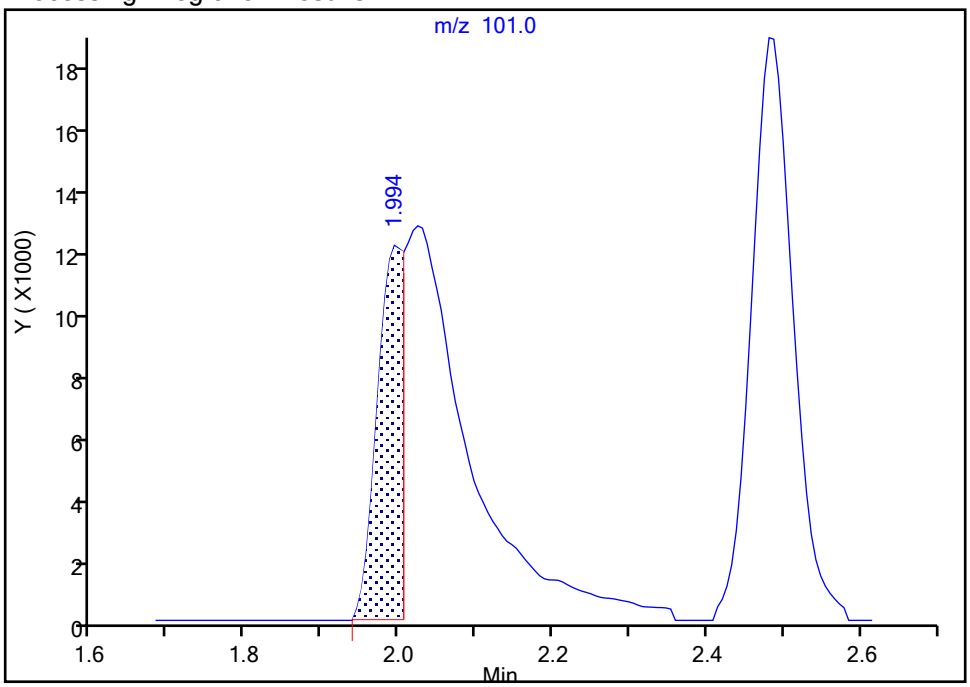
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3485.d
Injection Date: 07-Sep-2023 17:13:30 Instrument ID: HP5975D
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

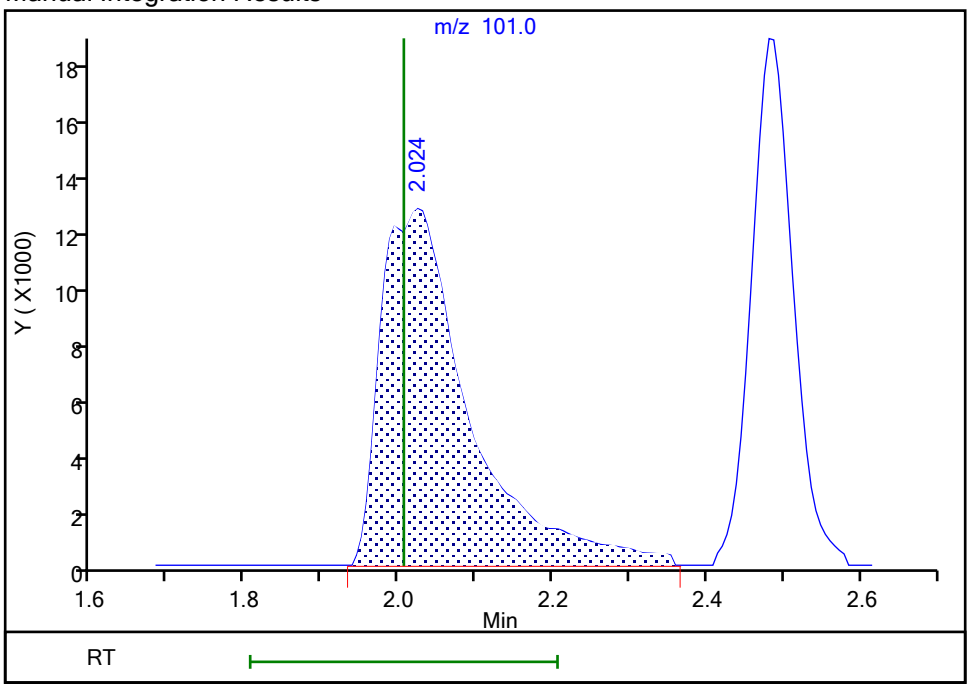
Processing Integration Results

RT: 1.99
Area: 29726
Amount: 3.650527
Amount Units: ug/L



Manual Integration Results

RT: 2.02
Area: 103109
Amount: 9.259239
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:59:45 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3486.d
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 07-Sep-2023 17:35:30 ALS Bottle#: 47 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0113624-018
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:48:05 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 12:46:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	98	124403	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	262605	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	95	267396	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	94	233522	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	99	122452	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	6.097	6.097	0.000	94	584092	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	95	198442	25.0	24.4	
10 Dichlorodifluoromethane	85	1.183	1.183	0.000	99	298323	25.0	28.7	
12 Chloromethane	50	1.354	1.354	0.000	99	397924	25.0	26.2	
13 Vinyl chloride	62	1.439	1.439	0.000	98	326243	25.0	28.3	
144 Butadiene	54	1.451	1.451	0.000	90	299965	25.0	27.8	
14 Bromomethane	94	1.738	1.738	0.000	90	188329	25.0	27.3	
15 Chloroethane	64	1.793	1.793	0.000	98	145469	25.0	26.9	
17 Trichlorofluoromethane	101	2.024	2.024	0.000	97	316930	25.0	30.0	
16 Dichlorofluoromethane	67	2.018	2.018	0.000	97	362578	25.0	28.0	
18 Ethyl ether	59	2.274	2.274	0.000	98	185613	25.0	26.8	
20 Acrolein	56	2.439	2.439	0.000	100	114082	125.0	132.0	
22 1,1-Dichloroethene	96	2.481	2.481	0.000	94	194329	25.0	29.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.481	2.481	0.000	66	218646	25.0	28.7	
23 Acetone	43	2.585	2.585	0.000	98	389982	125.0	125.5	
25 Iodomethane	142	2.640	2.640	0.000	99	455696	25.0	27.8	
26 Carbon disulfide	76	2.683	2.683	0.000	100	641563	25.0	28.7	
28 3-Chloro-1-propene	41	2.823	2.823	0.000	89	349128	25.0	27.8	
27 Methyl acetate	43	2.865	2.865	0.000	100	375971	50.0	52.1	
30 Methylene Chloride	84	2.957	2.957	0.000	99	219543	25.0	26.5	
31 2-Methyl-2-propanol	59	3.109	3.109	0.000	98	280852	250.0	271.1	
32 Methyl tert-butyl ether	73	3.146	3.146	0.000	99	545178	25.0	26.4	
34 trans-1,2-Dichloroethene	96	3.164	3.164	0.000	94	209498	25.0	27.7	
33 Acrylonitrile	53	3.207	3.207	0.000	97	943331	250.0	262.6	
35 Hexane	57	3.341	3.341	0.000	95	292939	25.0	29.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.530	3.530	0.000	97	405558	25.0	27.5	
37 Vinyl acetate	43	3.579	3.579	0.000	97	896383	50.0	56.3	
44 2,2-Dichloropropane	77	3.981	3.981	0.000	94	225201	25.0	28.2	
45 cis-1,2-Dichloroethene	96	4.012	4.012	0.000	89	230366	25.0	27.4	
43 2-Butanone (MEK)	43	4.036	4.036	0.000	98	549168	125.0	133.3	
48 Chlorobromomethane	128	4.213	4.213	0.000	97	138076	25.0	26.6	
49 Tetrahydrofuran	42	4.225	4.225	0.000	89	147642	50.0	53.5	
50 Chloroform	83	4.274	4.274	0.000	95	387975	25.0	26.3	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	98	310270	25.0	29.1	
52 Cyclohexane	56	4.383	4.383	0.000	97	363810	25.0	29.4	
55 Carbon tetrachloride	117	4.493	4.493	0.000	98	267888	25.0	28.9	
54 1,1-Dichloropropene	75	4.499	4.499	0.000	95	265592	25.0	28.3	
57 Benzene	78	4.670	4.670	0.000	97	701204	25.0	27.3	
53 Isobutyl alcohol	43	4.670	4.670	0.000	57	245484	625.0	689.7	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	97	317779	25.0	25.8	
59 n-Heptane	43	4.816	4.816	0.000	96	282520	25.0	29.5	
62 Trichloroethene	95	5.170	5.170	0.000	96	211695	25.0	27.6	
64 Methylcyclohexane	83	5.267	5.267	0.000	97	305521	25.0	29.1	
65 1,2-Dichloropropane	63	5.359	5.359	0.000	94	197585	25.0	26.9	
66 1,4-Dioxane	88	5.469	5.469	0.000	61	32771	500.0	542.2	M
67 Dibromomethane	93	5.475	5.475	0.000	96	151108	25.0	26.4	
68 Dichlorobromomethane	83	5.591	5.591	0.000	97	268347	25.0	27.8	
69 2-Chloroethyl vinyl ether	63	5.804	5.804	0.000	92	121701	25.0	28.1	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	93	288322	25.0	28.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.023	6.023	0.000	98	1058293	125.0	132.4	
74 Toluene	92	6.151	6.151	0.000	97	395549	25.0	26.4	
77 trans-1,3-Dichloropropene	75	6.359	6.359	0.000	96	246177	25.0	28.6	
75 Ethyl methacrylate	69	6.383	6.383	0.000	94	175713	25.0	28.2	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	138924	25.0	26.4	
81 Tetrachloroethene	166	6.566	6.566	0.000	97	209021	25.0	27.0	
82 1,3-Dichloropropane	76	6.633	6.633	0.000	94	242880	25.0	26.4	
80 2-Hexanone	43	6.676	6.676	0.000	97	618350	125.0	128.5	
83 Chlorodibromomethane	129	6.822	6.822	0.000	90	210952	25.0	27.7	
84 Ethylene Dibromide	107	6.907	6.907	0.000	99	191948	25.0	26.8	
87 Chlorobenzene	112	7.273	7.273	0.000	95	474498	25.0	26.8	
88 Ethylbenzene	91	7.334	7.334	0.000	99	726099	25.0	27.4	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	96	190663	25.0	27.5	
90 m-Xylene & p-Xylene	106	7.426	7.426	0.000	99	284279	25.0	26.7	
91 o-Xylene	106	7.755	7.755	0.000	97	304961	25.0	26.9	
92 Styrene	104	7.779	7.779	0.000	96	454364	25.0	26.7	
95 Bromoform	173	7.974	7.974	0.000	96	135540	25.0	28.1	
94 Isopropylbenzene	105	8.041	8.041	0.000	96	778440	25.0	28.1	
101 Bromobenzene	156	8.334	8.334	0.000	89	224502	25.0	27.3	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	96	237390	25.0	26.6	
99 N-Propylbenzene	91	8.383	8.383	0.000	99	882192	25.0	27.9	
98 trans-1,4-Dichloro-2-butene	53	8.389	8.389	0.000	82	63066	25.0	28.4	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	85	60752	25.0	26.6	
103 2-Chlorotoluene	126	8.474	8.474	0.000	97	200654	25.0	27.6	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	94	652567	25.0	28.3	
105 4-Chlorotoluene	126	8.566	8.566	0.000	97	192628	25.0	27.9	
106 tert-Butylbenzene	134	8.791	8.791	0.000	93	136504	25.0	28.7	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	98	670597	25.0	27.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	854552	25.0	28.1	
110 4-Isopropyltoluene	119	9.090	9.090	0.000	97	748312	25.0	27.8	
111 1,3-Dichlorobenzene	146	9.102	9.102	0.000	99	391603	25.0	27.0	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	97	390988	25.0	26.3	
115 n-Butylbenzene	91	9.437	9.437	0.000	98	659681	25.0	27.9	
116 1,2-Dichlorobenzene	146	9.498	9.498	0.000	98	399675	25.0	26.4	
117 1,2-Dibromo-3-Chloropropane	75	10.175	10.175	0.000	87	43629	25.0	27.5	
119 1,2,4-Trichlorobenzene	180	10.840	10.840	0.000	94	332300	25.0	26.3	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	156515	25.0	28.1	
121 Naphthalene	128	11.053	11.053	0.000	97	815010	25.0	26.2	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	96	326393	25.0	25.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00242	Amount Added:	12.50	Units: uL	
GAS CORP mix_00583	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

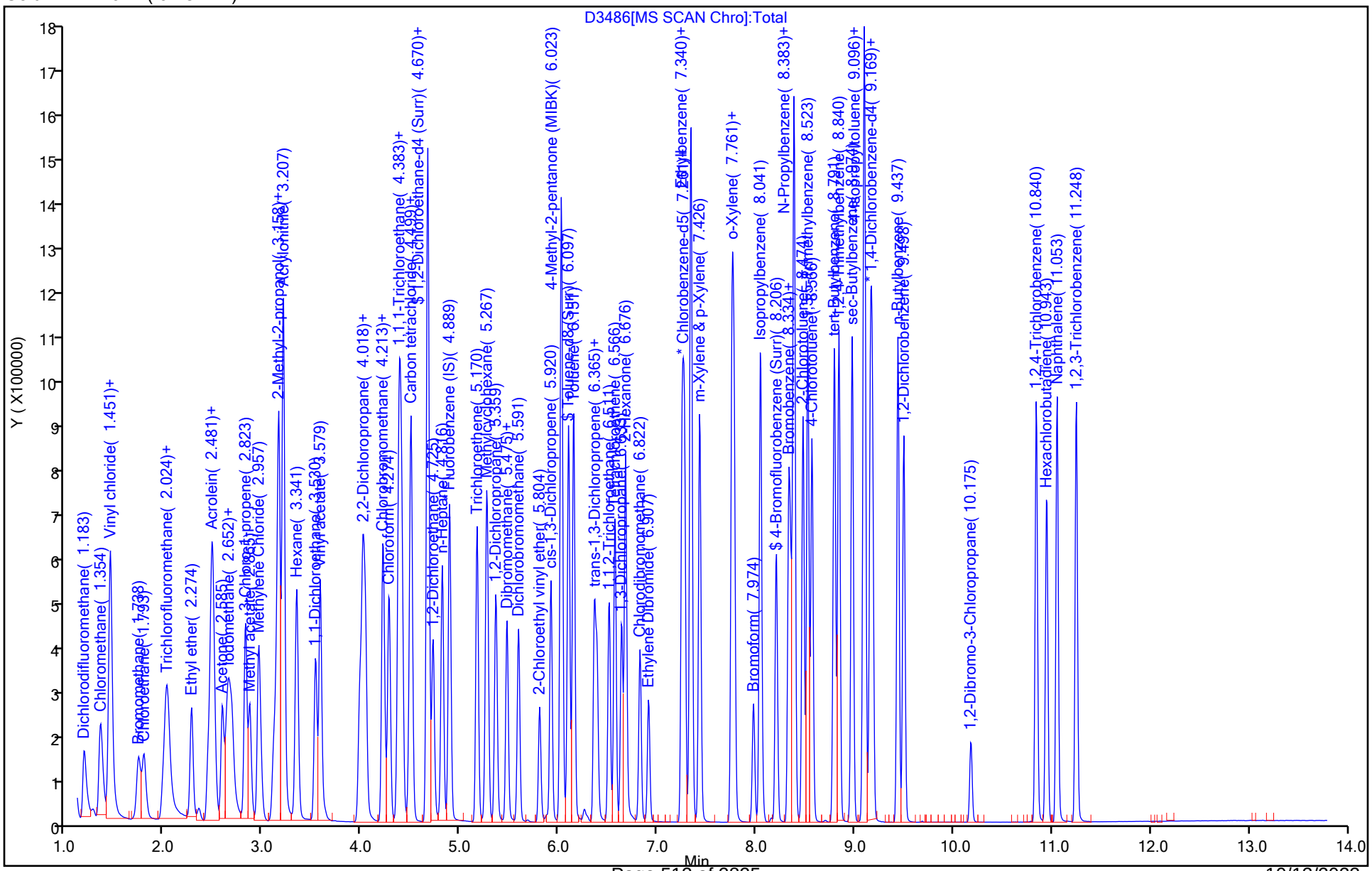
Report Date: 08-Sep-2023 12:48:06 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3486.d

Injection Date:	07-Sep-2023 17:35:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	ICIS 5			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Manual Integration/User Assign Peak Report

Eurofins Buffalo

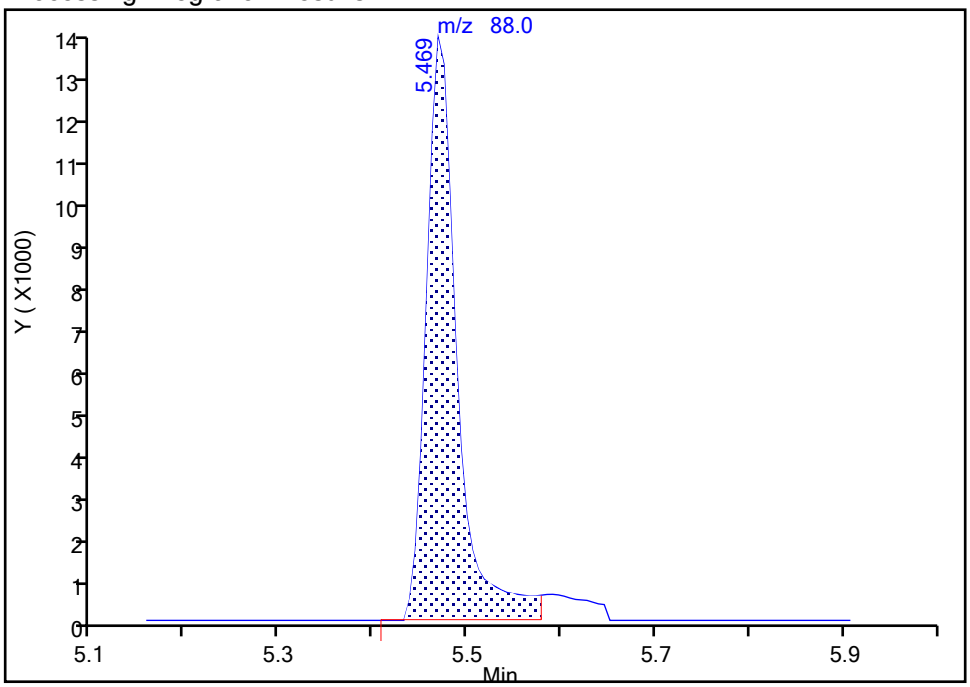
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3486.d
Injection Date: 07-Sep-2023 17:35:30 Instrument ID: HP5975D
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 47 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

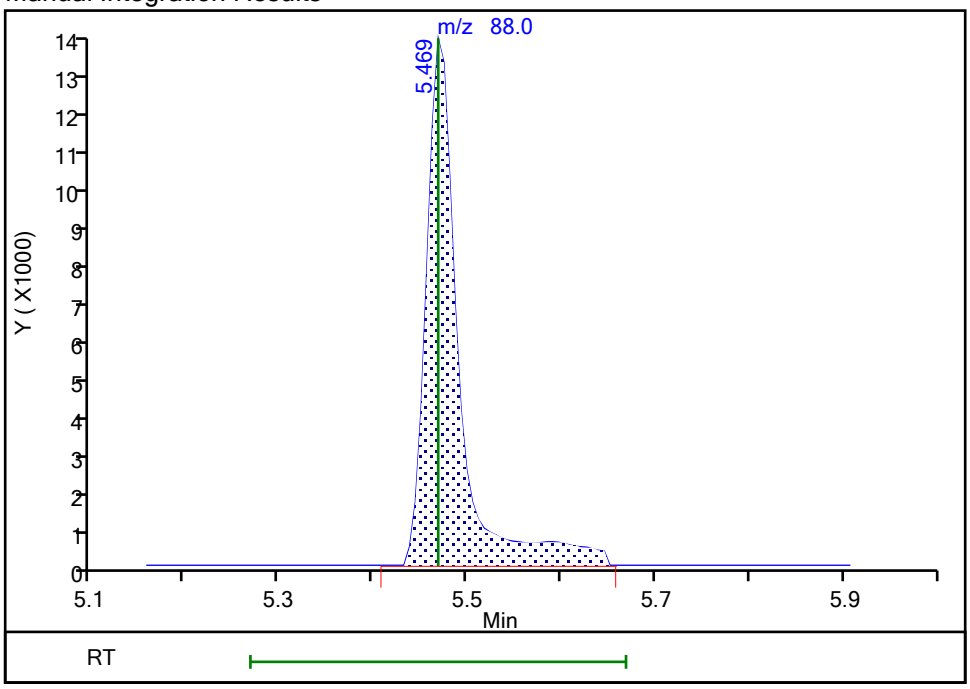
Processing Integration Results

RT: 5.47
Area: 30785
Amount: 493.2286
Amount Units: ug/L



Manual Integration Results

RT: 5.47
Area: 32771
Amount: 542.2316
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 11:52:18 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3487.d
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-Sep-2023 17:57:30 ALS Bottle#: 48 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0113624-019
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:48:09 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 12:01:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	99	121160	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	86	259395	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	94	262211	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	94	221501	25.0	24.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	99	117062	25.0	24.8	
$ 5 Toluene-d8 (Surr)	98	6.096	6.097	-0.001	93	587584	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	95	204067	25.0	25.4	
10 Dichlorodifluoromethane	85	1.189	1.183	0.006	99	601591	50.0	59.4	
12 Chloromethane	50	1.353	1.354	-0.001	99	770923	50.0	52.1	
13 Vinyl chloride	62	1.439	1.439	0.000	98	629247	50.0	56.1	
144 Butadiene	54	1.451	1.451	0.000	90	585871	50.0	55.7	
14 Bromomethane	94	1.738	1.738	0.000	90	382337	50.0	56.9	
15 Chloroethane	64	1.792	1.793	-0.001	98	288952	50.0	54.8	
16 Dichlorofluoromethane	67	2.018	2.018	0.000	98	704981	50.0	55.9	
17 Trichlorofluoromethane	101	2.024	2.024	0.000	98	578095	50.0	56.2	M
18 Ethyl ether	59	2.274	2.274	0.000	98	358331	50.0	53.2	
20 Acrolein	56	2.439	2.439	0.000	99	219831	250.0	261.1	
22 1,1-Dichloroethene	96	2.487	2.481	0.006	95	377095	50.0	58.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.481	2.481	0.000	95	440448	50.0	59.3	
23 Acetone	43	2.585	2.585	0.000	99	740494	250.0	244.7	
25 Iodomethane	142	2.640	2.640	0.000	99	896148	50.0	56.0	
26 Carbon disulfide	76	2.682	2.683	-0.001	100	1242248	50.0	57.2	
28 3-Chloro-1-propene	41	2.823	2.823	0.000	90	657775	50.0	53.8	
27 Methyl acetate	43	2.865	2.865	0.000	99	708534	100.0	100.8	
30 Methylene Chloride	84	2.957	2.957	0.000	99	417109	50.0	51.7	
31 2-Methyl-2-propanol	59	3.109	3.109	0.000	99	565035	500.0	559.9	
32 Methyl tert-butyl ether	73	3.146	3.146	0.000	99	1040695	50.0	51.8	
34 trans-1,2-Dichloroethene	96	3.164	3.164	0.000	95	401215	50.0	54.5	
33 Acrylonitrile	53	3.207	3.207	0.000	97	1783521	500.0	509.7	
35 Hexane	57	3.341	3.341	0.000	94	553434	50.0	57.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.530	3.530	0.000	97	763322	50.0	53.1	
37 Vinyl acetate	43	3.579	3.579	0.000	97	1788927	100.0	115.4	
44 2,2-Dichloropropane	77	3.981	3.981	0.000	95	433030	50.0	55.6	
45 cis-1,2-Dichloroethene	96	4.011	4.012	-0.001	85	446779	50.0	54.6	
43 2-Butanone (MEK)	43	4.036	4.036	0.000	98	1065762	250.0	265.7	
48 Chlorobromomethane	128	4.213	4.213	0.000	97	265730	50.0	52.6	
49 Tetrahydrofuran	42	4.225	4.225	0.000	89	282956	100.0	105.3	
50 Chloroform	83	4.274	4.274	0.000	95	725775	50.0	50.6	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	98	595467	50.0	57.3	
52 Cyclohexane	56	4.383	4.383	0.000	96	678969	50.0	56.3	
55 Carbon tetrachloride	117	4.493	4.493	0.000	98	540537	50.0	59.9	
54 1,1-Dichloropropene	75	4.499	4.499	0.000	93	503516	50.0	55.0	
57 Benzene	78	4.670	4.670	0.000	97	1340263	50.0	53.6	
53 Isobutyl alcohol	43	4.670	4.670	0.000	59	523150	1250.0	1509.2	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	97	598882	50.0	49.9	
59 n-Heptane	43	4.816	4.816	0.000	96	526847	50.0	56.5	
62 Trichloroethene	95	5.170	5.170	0.000	96	411060	50.0	55.0	
64 Methylcyclohexane	83	5.267	5.267	0.000	97	586092	50.0	57.4	
65 1,2-Dichloropropane	63	5.359	5.359	0.000	94	387876	50.0	54.2	
66 1,4-Dioxane	88	5.468	5.469	-0.001	96	68843	1000.0	1153.2	M
67 Dibromomethane	93	5.475	5.475	0.000	95	291306	50.0	52.3	
68 Dichlorobromomethane	83	5.590	5.591	-0.001	97	533397	50.0	56.7	
69 2-Chloroethyl vinyl ether	63	5.804	5.804	0.000	92	247897	50.0	58.8	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	93	580421	50.0	59.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.023	6.023	0.000	98	2064574	250.0	261.4	
74 Toluene	92	6.151	6.151	0.000	98	792726	50.0	53.6	
77 trans-1,3-Dichloropropene	75	6.359	6.359	0.000	94	504696	50.0	59.4	
75 Ethyl methacrylate	69	6.383	6.383	0.000	93	355923	50.0	57.8	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	273984	50.0	52.6	
81 Tetrachloroethene	166	6.566	6.566	0.000	97	420916	50.0	55.0	
82 1,3-Dichloropropane	76	6.633	6.633	0.000	94	486349	50.0	53.6	
80 2-Hexanone	43	6.676	6.676	0.000	96	1203612	250.0	253.1	
83 Chlorodibromomethane	129	6.822	6.822	0.000	90	442135	50.0	58.8	
84 Ethylene Dibromide	107	6.907	6.907	0.000	98	386451	50.0	54.6	
87 Chlorobenzene	112	7.273	7.273	0.000	96	946071	50.0	54.1	
88 Ethylbenzene	91	7.334	7.334	0.000	99	1438518	50.0	54.9	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	97	389280	50.0	56.9	
90 m-Xylene & p-Xylene	106	7.425	7.426	-0.001	99	570050	50.0	54.3	
91 o-Xylene	106	7.755	7.755	0.000	97	612092	50.0	54.7	
92 Styrene	104	7.773	7.779	-0.006	94	920247	50.0	54.7	
95 Bromoform	173	7.974	7.974	0.000	97	298895	50.0	62.8	
94 Isopropylbenzene	105	8.041	8.041	0.000	96	1545298	50.0	56.9	
101 Bromobenzene	156	8.334	8.334	0.000	88	453298	50.0	56.3	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	95	472200	50.0	53.9	
99 N-Propylbenzene	91	8.383	8.383	0.000	99	1739987	50.0	56.2	
98 trans-1,4-Dichloro-2-butene	53	8.389	8.389	0.000	81	126078	50.0	57.9	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	85	119715	50.0	53.5	
103 2-Chlorotoluene	126	8.474	8.474	0.000	97	395874	50.0	55.6	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	94	1293110	50.0	57.3	
105 4-Chlorotoluene	126	8.565	8.566	-0.001	97	374501	50.0	55.4	
106 tert-Butylbenzene	134	8.797	8.791	0.006	93	273612	50.0	58.6	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	98	1314105	50.0	55.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	1701896	50.0	57.0	
110 4-Isopropyltoluene	119	9.090	9.090	0.000	97	1503279	50.0	56.9	
111 1,3-Dichlorobenzene	146	9.102	9.102	0.000	99	772387	50.0	54.3	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	97	769043	50.0	52.8	
115 n-Butylbenzene	91	9.437	9.437	0.000	98	1282815	50.0	55.3	
116 1,2-Dichlorobenzene	146	9.498	9.498	0.000	99	788769	50.0	53.1	
117 1,2-Dibromo-3-Chloropropane	75	10.175	10.175	0.000	88	91377	50.0	58.7	
119 1,2,4-Trichlorobenzene	180	10.839	10.840	-0.001	94	684975	50.0	55.4	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	328929	50.0	60.3	
121 Naphthalene	128	11.053	11.053	0.000	97	1647347	50.0	54.0	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	96	672234	50.0	54.0	
S 124 Xylenes, Total	1				0			109.0	
S 125 1,2-Dichloroethene, Total	1				0			109.1	
S 126 1,3-Dichloropropene, Total	1				0			118.6	
S 123 Total BTEX	1				0			271.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00242	Amount Added:	25.00	Units: uL	
GAS CORP mix_00583	Amount Added:	25.00	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

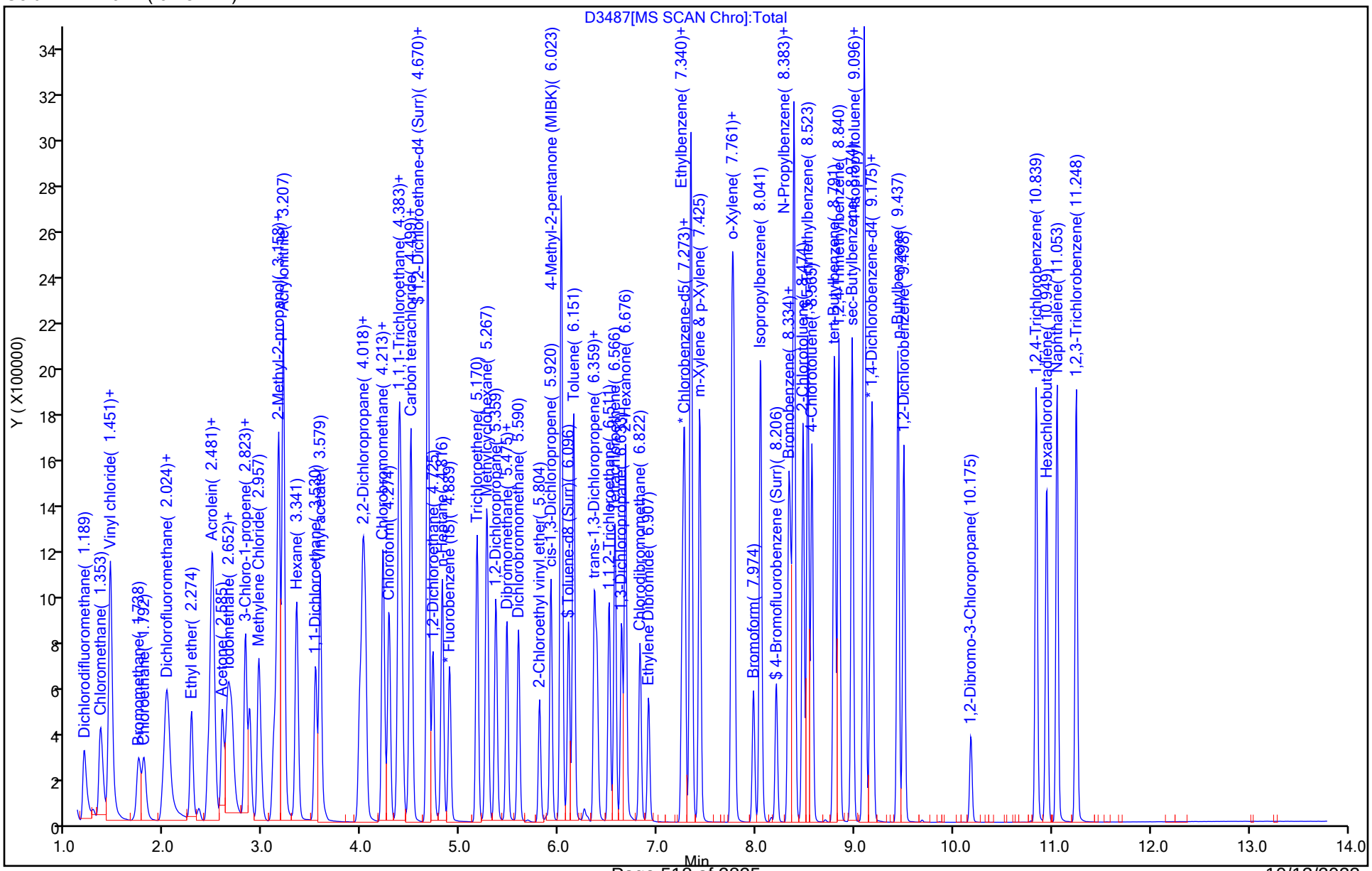
Report Date: 08-Sep-2023 12:48:10 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3487.d

Injection Date:	07-Sep-2023 17:57:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 6			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo

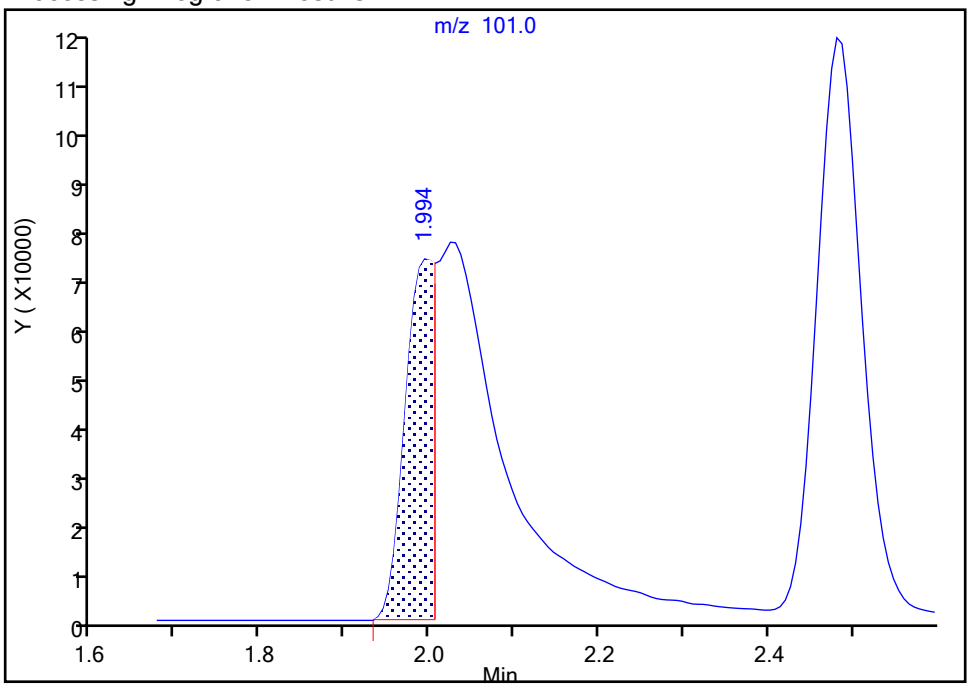
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3487.d
Injection Date: 07-Sep-2023 17:57:30 Instrument ID: HP5975D
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 48 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

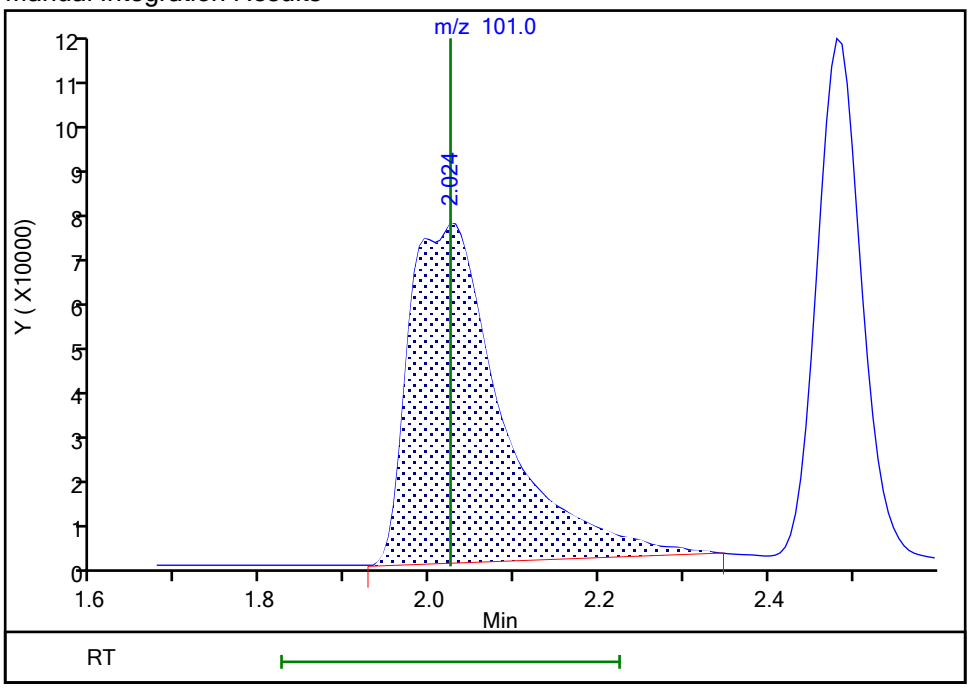
Processing Integration Results

RT: 1.99
Area: 180721
Amount: 21.612046
Amount Units: ug/L



Manual Integration Results

RT: 2.02
Area: 578095
Amount: 56.247603
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 12:01:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

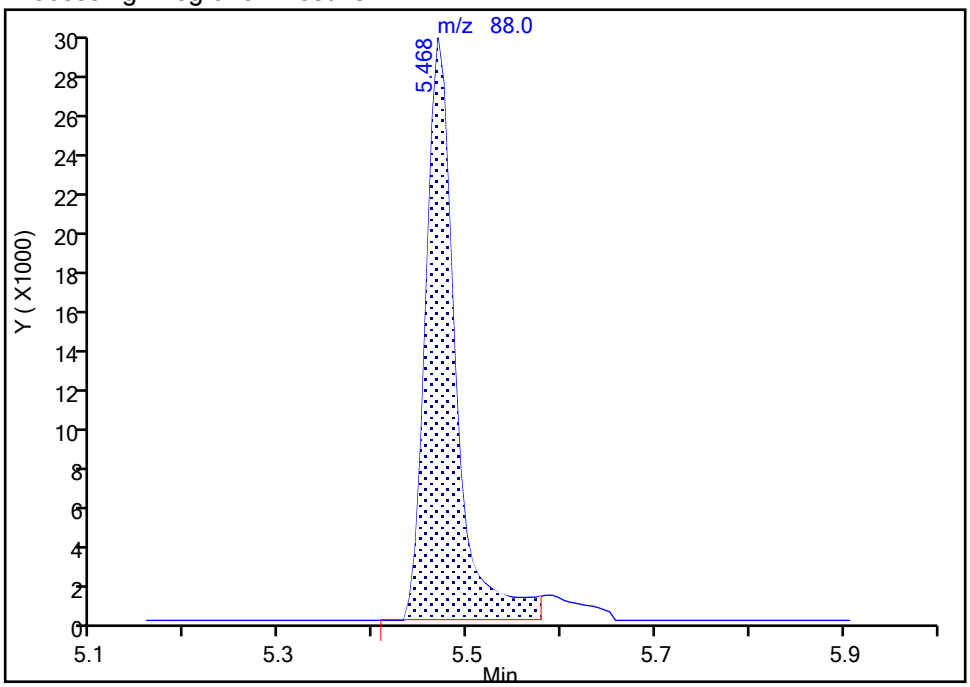
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3487.d
Injection Date: 07-Sep-2023 17:57:30 Instrument ID: HP5975D
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 48 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

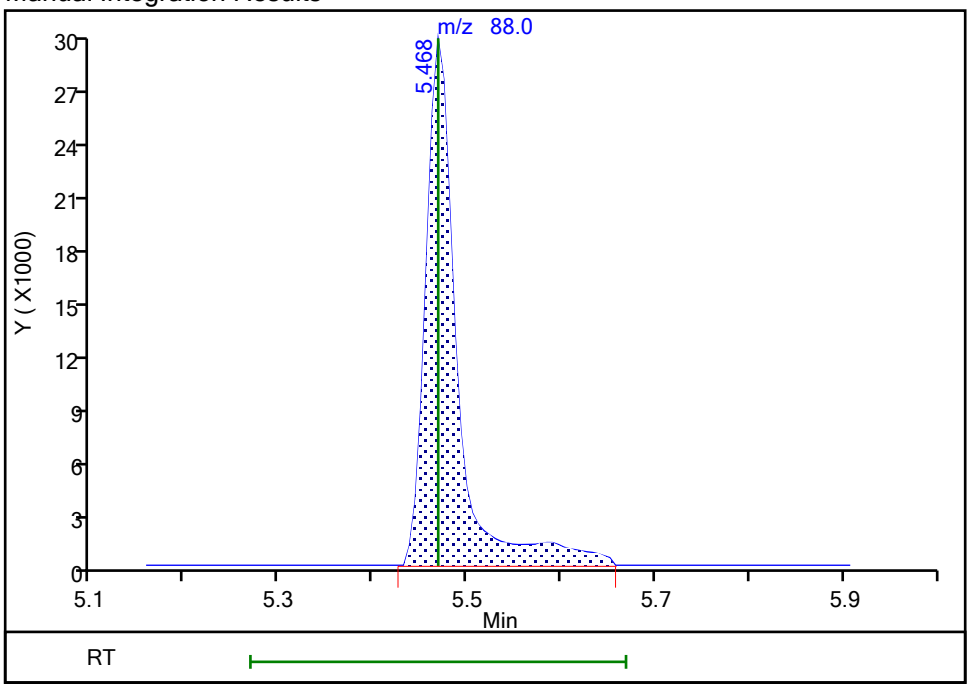
Processing Integration Results

RT: 5.47
Area: 65050
Amount: 1176.5130
Amount Units: ug/L



Manual Integration Results

RT: 5.47
Area: 68843
Amount: 1153.1779
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 12:02:50 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3488.d
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 07-Sep-2023 18:19:30 ALS Bottle#: 49 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0113624-020
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:48:14 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 12:02:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	99	119460	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	86	258354	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	95	253375	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	94	211356	25.0	24.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	99	111690	25.0	24.0	
$ 5 Toluene-d8 (Surr)	98	6.096	6.097	-0.001	93	566077	25.0	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	95	198612	25.0	24.8	
10 Dichlorodifluoromethane	85	1.189	1.183	0.006	99	1149803	100.0	115.1	
12 Chloromethane	50	1.353	1.354	-0.001	99	1456372	100.0	99.7	
13 Vinyl chloride	62	1.439	1.439	0.000	98	1181767	100.0	106.8	
144 Butadiene	54	1.457	1.451	0.006	90	1094331	100.0	105.5	
14 Bromomethane	94	1.738	1.738	0.000	91	709430	100.0	107.1	
15 Chloroethane	64	1.799	1.793	0.006	98	535200	100.0	103.0	
16 Dichlorofluoromethane	67	2.018	2.018	0.000	97	1313604	100.0	105.7	
17 Trichlorofluoromethane	101	2.030	2.024	0.006	99	1158482	100.0	114.3	
18 Ethyl ether	59	2.274	2.274	0.000	98	675638	100.0	101.6	
20 Acrolein	56	2.439	2.439	0.000	100	425815	500.0	513.0	
22 1,1-Dichloroethene	96	2.487	2.481	0.006	95	697986	100.0	110.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.487	2.481	0.006	95	801638	100.0	109.5	
23 Acetone	43	2.585	2.585	0.000	99	1397072	500.0	468.1	
25 Iodomethane	142	2.646	2.640	0.006	99	1622765	100.0	102.9	
26 Carbon disulfide	76	2.683	2.683	-0.001	100	2255193	100.0	105.2	
28 3-Chloro-1-propene	41	2.823	2.823	0.000	90	1230107	100.0	102.0	
27 Methyl acetate	43	2.865	2.865	0.000	100	1375366	200.0	198.4	
30 Methylene Chloride	84	2.957	2.957	0.000	99	774288	100.0	97.4	
31 2-Methyl-2-propanol	59	3.109	3.109	0.000	99	1064510	1000.0	1069.9	
32 Methyl tert-butyl ether	73	3.152	3.146	0.006	99	1949152	100.0	98.5	
34 trans-1,2-Dichloroethene	96	3.164	3.164	0.000	95	736002	100.0	101.3	
33 Acrylonitrile	53	3.207	3.207	0.000	98	3362081	1000.0	974.5	
35 Hexane	57	3.341	3.341	0.000	94	988817	100.0	103.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.530	3.530	0.000	97	1401198	100.0	98.9	
37 Vinyl acetate	43	3.579	3.579	0.000	97	3474367	200.0	227.4	
44 2,2-Dichloropropane	77	3.987	3.981	0.006	94	781477	100.0	101.8	
45 cis-1,2-Dichloroethene	96	4.012	4.012	0.000	85	821291	100.0	101.9	
43 2-Butanone (MEK)	43	4.036	4.036	0.000	98	2005197	500.0	507.0	
48 Chlorobromomethane	128	4.213	4.213	0.000	97	494540	100.0	99.4	
49 Tetrahydrofuran	42	4.225	4.225	0.000	89	532247	200.0	200.9	
50 Chloroform	83	4.280	4.274	0.006	95	1338322	100.0	94.6	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	99	1088437	100.0	106.2	
52 Cyclohexane	56	4.389	4.383	0.006	96	1235123	100.0	103.9	
55 Carbon tetrachloride	117	4.493	4.493	0.000	98	1007125	100.0	113.1	
54 1,1-Dichloropropene	75	4.505	4.499	0.006	94	906914	100.0	100.5	
57 Benzene	78	4.670	4.670	0.000	97	2470884	100.0	100.2	
53 Isobutyl alcohol	43	4.670	4.670	0.000	77	995446	2500.0	2912.5	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	97	1103256	100.0	93.2	
59 n-Heptane	43	4.816	4.816	0.000	96	945545	100.0	102.9	
62 Trichloroethene	95	5.170	5.170	0.000	96	760397	100.0	103.1	
64 Methylcyclohexane	83	5.273	5.267	0.006	96	1078774	100.0	107.1	
65 1,2-Dichloropropane	63	5.359	5.359	0.000	94	723392	100.0	102.5	
66 1,4-Dioxane	88	5.469	5.469	0.000	97	121111	2000.0	2036.9	M
67 Dibromomethane	93	5.475	5.475	0.000	96	551077	100.0	100.3	
68 Dichlorobromomethane	83	5.590	5.591	-0.001	98	1019772	100.0	110.0	
69 2-Chloroethyl vinyl ether	63	5.804	5.804	0.000	92	486191	100.0	117.0	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	93	1125412	100.0	116.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.023	6.023	0.000	98	3911485	500.0	497.3	
74 Toluene	92	6.151	6.151	0.000	98	1480149	100.0	100.5	
77 trans-1,3-Dichloropropene	75	6.359	6.359	0.000	95	979272	100.0	115.8	
75 Ethyl methacrylate	69	6.383	6.383	0.000	93	690004	100.0	112.4	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	521345	100.0	100.5	
81 Tetrachloroethene	166	6.566	6.566	0.000	97	763254	100.0	100.2	
82 1,3-Dichloropropane	76	6.633	6.633	0.000	94	923121	100.0	102.1	
80 2-Hexanone	43	6.676	6.676	0.000	96	2237172	500.0	472.4	
83 Chlorodibromomethane	129	6.822	6.822	0.000	90	869507	100.0	116.1	
84 Ethylene Dibromide	107	6.907	6.907	0.000	98	732546	100.0	103.9	
87 Chlorobenzene	112	7.273	7.273	0.000	95	1779189	100.0	102.2	
88 Ethylbenzene	91	7.334	7.334	0.000	99	2692374	100.0	103.1	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	97	748846	100.0	110.0	
90 m-Xylene & p-Xylene	106	7.425	7.426	-0.001	99	1033339	100.0	98.8	
91 o-Xylene	106	7.755	7.755	0.000	97	1146814	100.0	102.9	
92 Styrene	104	7.779	7.779	0.000	96	1732037	100.0	103.4	
95 Bromoform	173	7.974	7.974	0.000	97	603300	100.0	127.3	
94 Isopropylbenzene	105	8.041	8.041	0.000	96	2842599	100.0	108.3	
101 Bromobenzene	156	8.334	8.334	0.000	94	859706	100.0	110.5	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	95	888088	100.0	105.0	
99 N-Propylbenzene	91	8.383	8.383	0.000	99	3175087	100.0	106.1	
98 trans-1,4-Dichloro-2-butene	53	8.389	8.389	0.000	81	228602	100.0	108.6	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	83	221711	100.0	102.5	
103 2-Chlorotoluene	126	8.474	8.474	0.000	97	731572	100.0	106.4	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	94	2381588	100.0	109.1	
105 4-Chlorotoluene	126	8.565	8.566	-0.001	97	691363	100.0	105.8	
106 tert-Butylbenzene	134	8.791	8.791	0.000	93	522972	100.0	115.9	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	98	2451029	100.0	107.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	3165112	100.0	109.7	
110 4-Isopropyltoluene	119	9.096	9.090	0.006	97	2778968	100.0	108.8	
111 1,3-Dichlorobenzene	146	9.102	9.102	0.000	99	1416973	100.0	103.2	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	1413528	100.0	100.5	
115 n-Butylbenzene	91	9.437	9.437	0.000	98	2387653	100.0	106.6	
116 1,2-Dichlorobenzene	146	9.498	9.498	0.000	99	1477500	100.0	103.0	
117 1,2-Dibromo-3-Chloropropane	75	10.175	10.175	0.000	89	180925	100.0	120.4	
119 1,2,4-Trichlorobenzene	180	10.839	10.840	-0.001	95	1263265	100.0	105.7	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	97	610180	100.0	115.7	
121 Naphthalene	128	11.053	11.053	0.000	97	3037187	100.0	103.0	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	96	1205723	100.0	100.2	
S 124 Xylenes, Total	1				0			201.7	
S 125 1,2-Dichloroethene, Total	1				0			203.2	
S 126 1,3-Dichloropropene, Total	1				0			232.2	
S 123 Total BTEX	1				0			505.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00242	Amount Added:	50.00	Units: uL	
GAS CORP mix_00583	Amount Added:	50.00	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 08-Sep-2023 12:48:15 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3488.d

Injection Date: 07-Sep-2023 18:19:30 Instrument ID: HP5975D Operator ID: LH

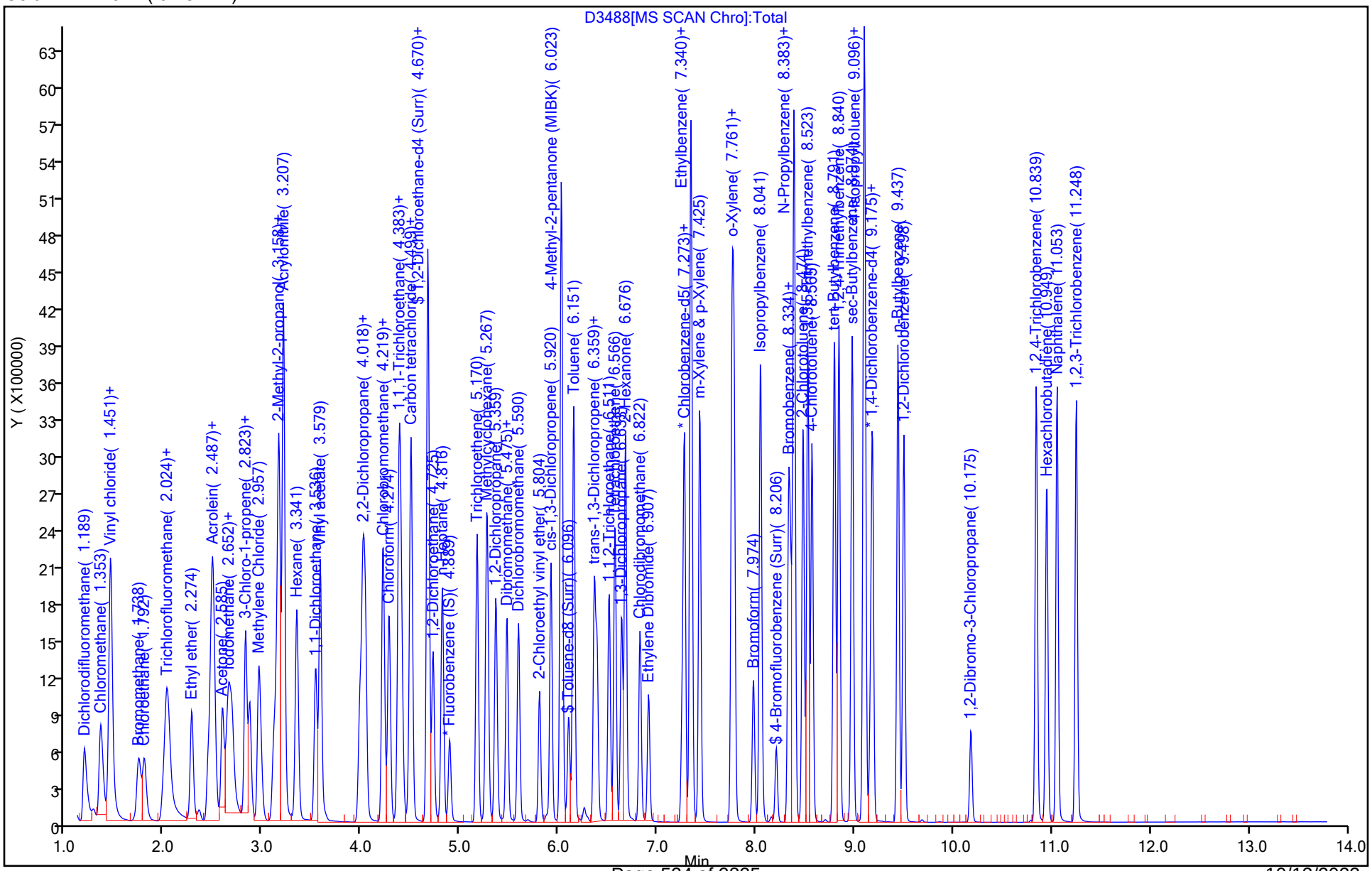
Lims ID: IC 7 Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 49

Method: D-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



10/13/2023
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Manual Integration/User Assign Peak Report

Eurofins Buffalo

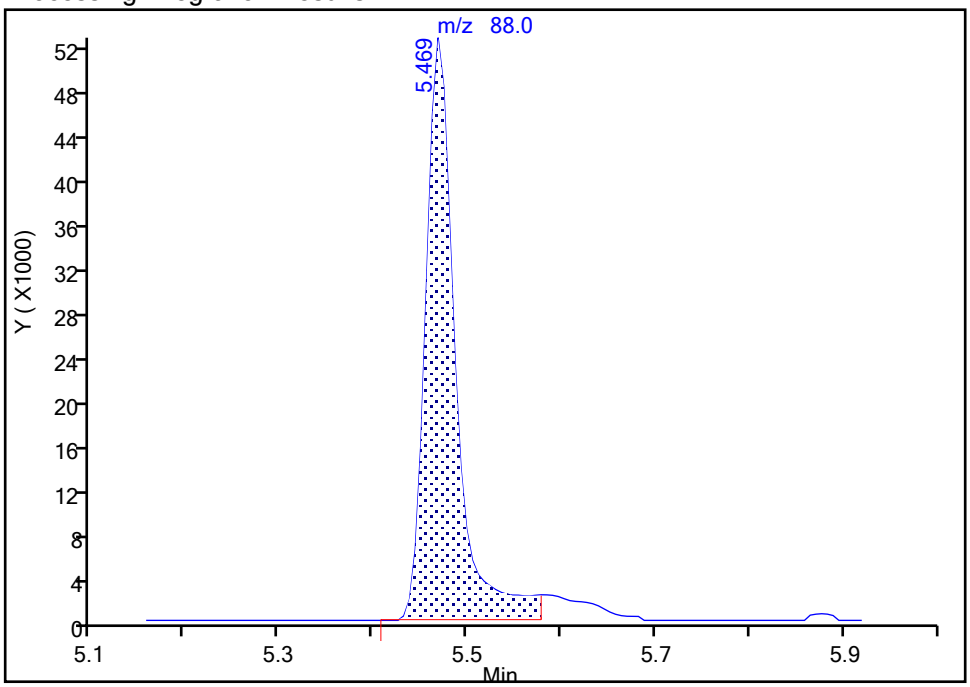
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3488.d
Injection Date: 07-Sep-2023 18:19:30 Instrument ID: HP5975D
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 49 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

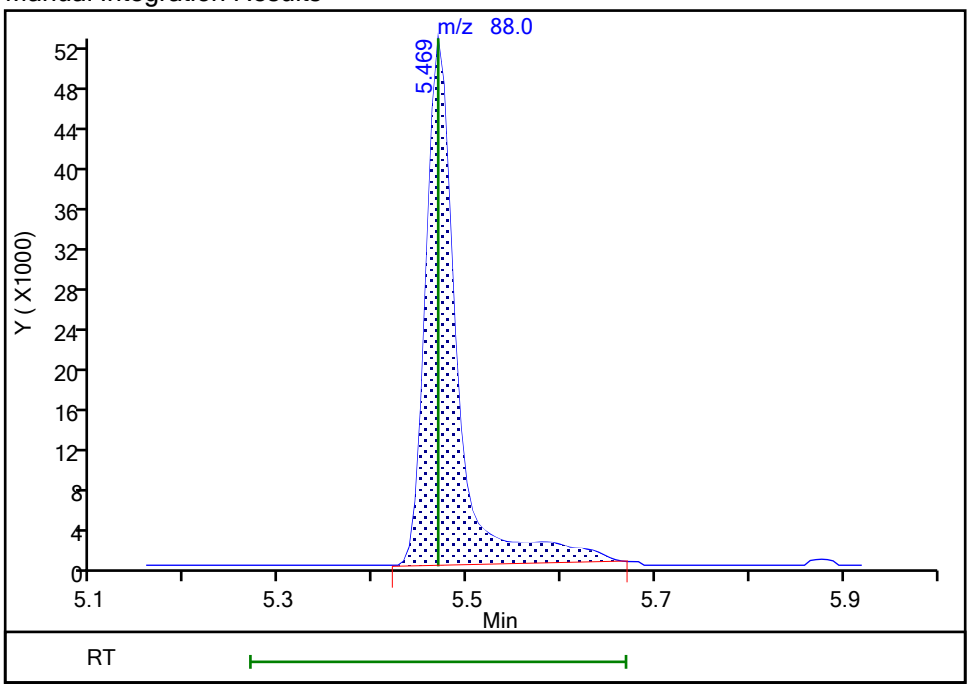
Processing Integration Results

RT: 5.47
Area: 116180
Amount: 2123.3121
Amount Units: ug/L



Manual Integration Results

RT: 5.47
Area: 121111
Amount: 2036.8850
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 12:02:18 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

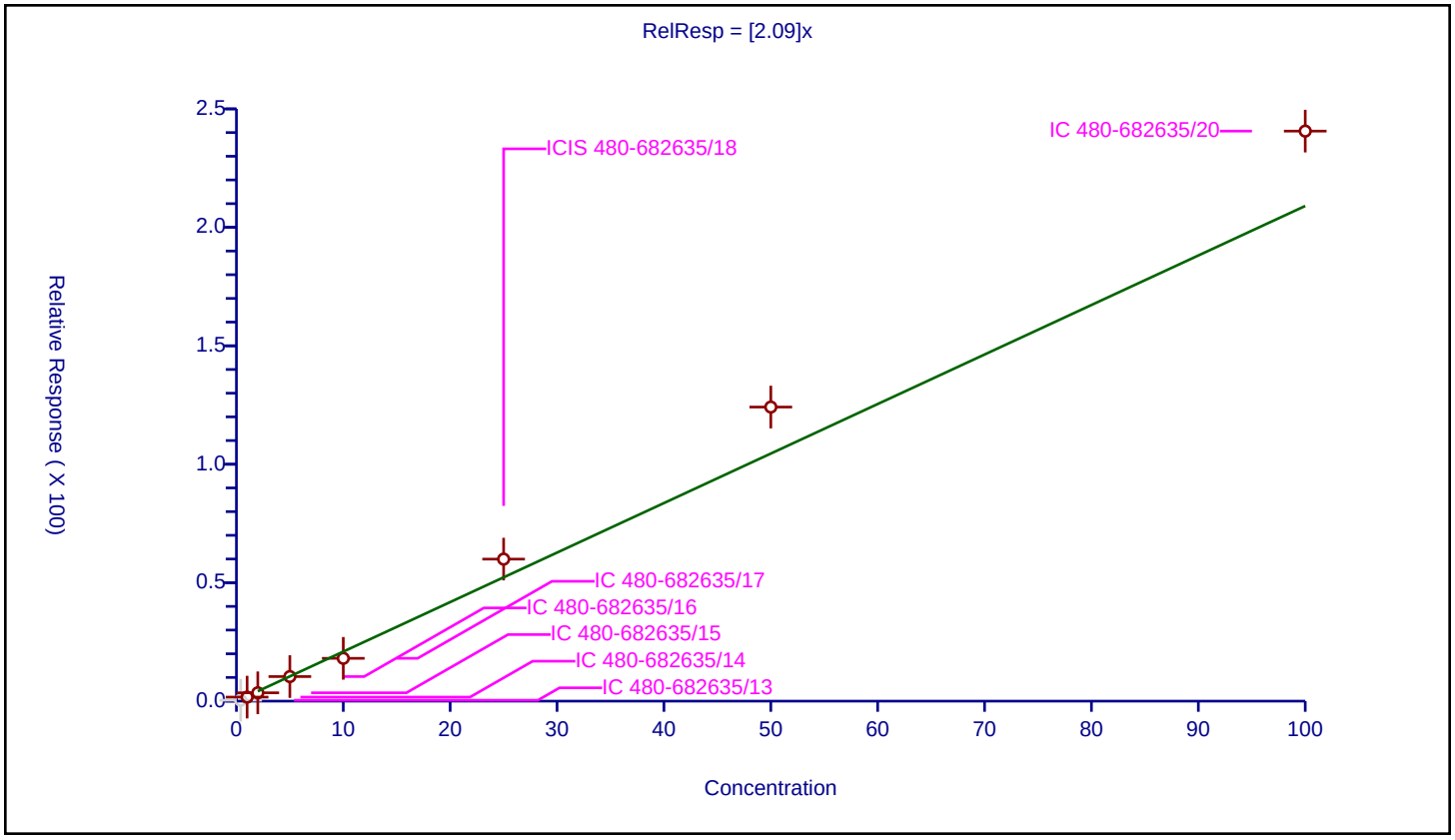
Curve Coefficients

Intercept:	0
Slope:	2.09

Error Coefficients

Standard Error:	545000
Relative Standard Error:	16.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.393222	25.0	131287.0	0.983056	N
2	IC 480-682635/14	1.0	1.703533	25.0	136936.0	1.703533	Y
3	IC 480-682635/15	2.0	3.519528	25.0	141411.0	1.759764	Y
4	IC 480-682635/16	5.0	10.371273	25.0	134012.0	2.074255	Y
5	IC 480-682635/17	10.0	18.071087	25.0	131276.0	1.807109	Y
6	ICIS 480-682635/18	25.0	59.950926	25.0	124403.0	2.398037	Y
7	IC 480-682635/19	50.0	124.13152	25.0	121160.0	2.48263	Y
8	IC 480-682635/20	100.0	240.625105	25.0	119460.0	2.406251	Y



10/13/2023
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Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

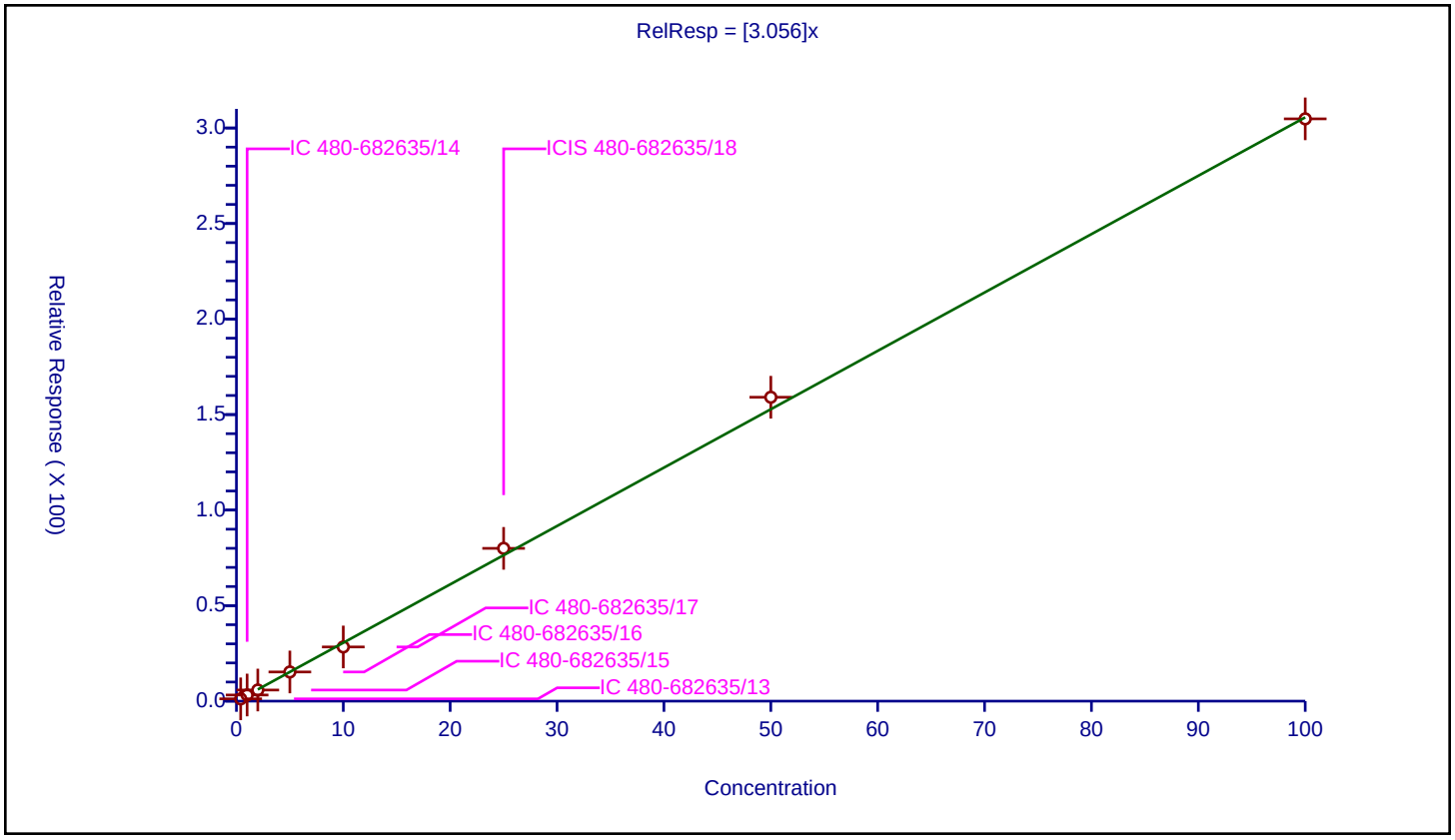
Curve Coefficients

Intercept:	0
Slope:	3.056

Error Coefficients

Standard Error:	644000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.202518	25.0	131287.0	3.006295	Y
2	IC 480-682635/14	1.0	3.209346	25.0	136936.0	3.209346	Y
3	IC 480-682635/15	2.0	5.82239	25.0	141411.0	2.911195	Y
4	IC 480-682635/16	5.0	15.274192	25.0	134012.0	3.054838	Y
5	IC 480-682635/17	10.0	28.35743	25.0	131276.0	2.835743	Y
6	ICIS 480-682635/18	25.0	79.966721	25.0	124403.0	3.198669	Y
7	IC 480-682635/19	50.0	159.071269	25.0	121160.0	3.181425	Y
8	IC 480-682635/20	100.0	304.782354	25.0	119460.0	3.047824	Y



10/13/2023
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Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

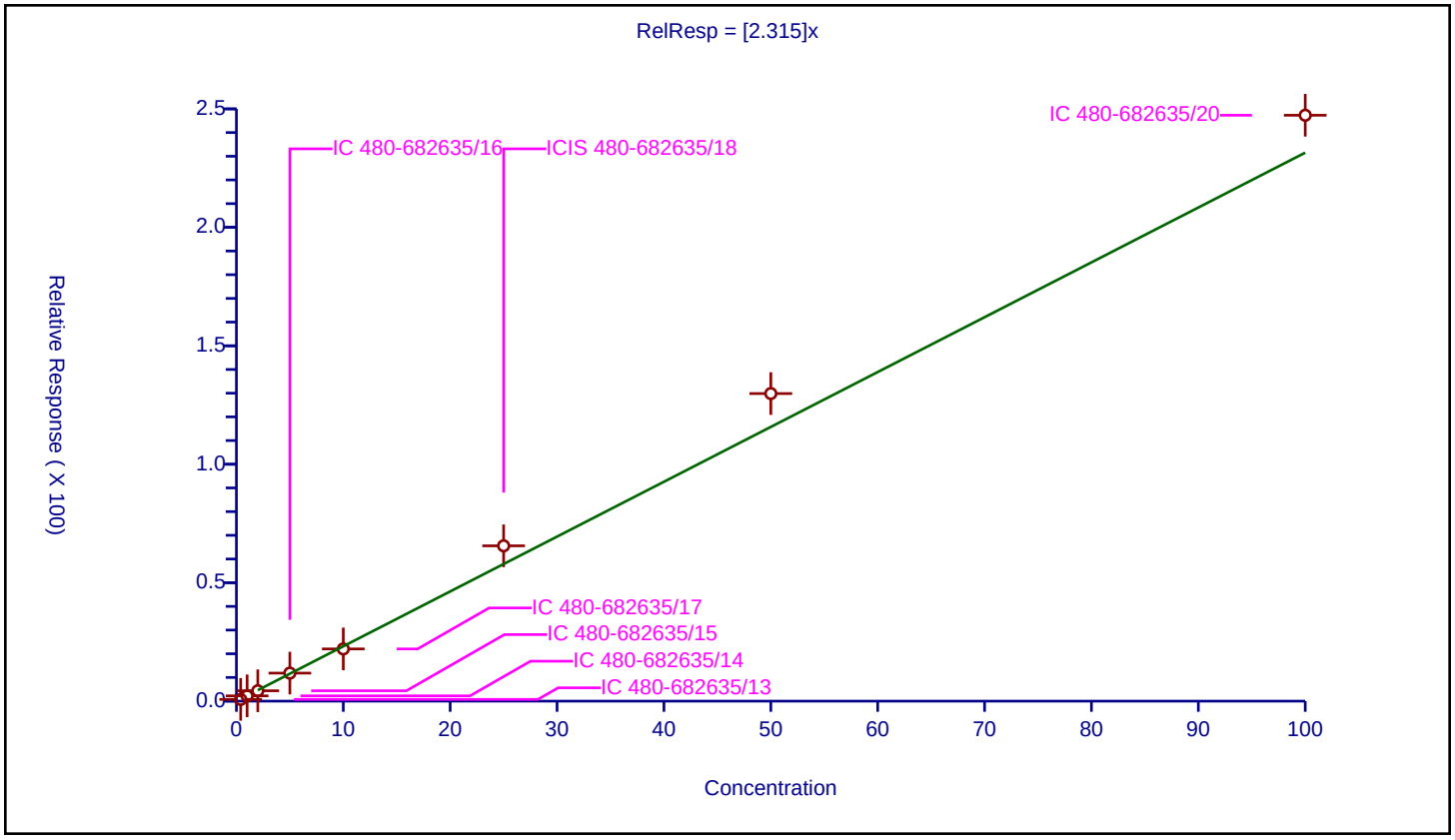
Curve Coefficients

Intercept:	0
Slope:	2.315

Error Coefficients

Standard Error:	523000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.733317	25.0	131287.0	1.833293	Y
2	IC 480-682635/14	1.0	2.23316	25.0	136936.0	2.23316	Y
3	IC 480-682635/15	2.0	4.382969	25.0	141411.0	2.191484	Y
4	IC 480-682635/16	5.0	11.834201	25.0	134012.0	2.36684	Y
5	IC 480-682635/17	10.0	22.039253	25.0	131276.0	2.203925	Y
6	ICIS 480-682635/18	25.0	65.561723	25.0	124403.0	2.622469	Y
7	IC 480-682635/19	50.0	129.838024	25.0	121160.0	2.59676	Y
8	IC 480-682635/20	100.0	247.314373	25.0	119460.0	2.473144	Y



10/13/2023
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Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

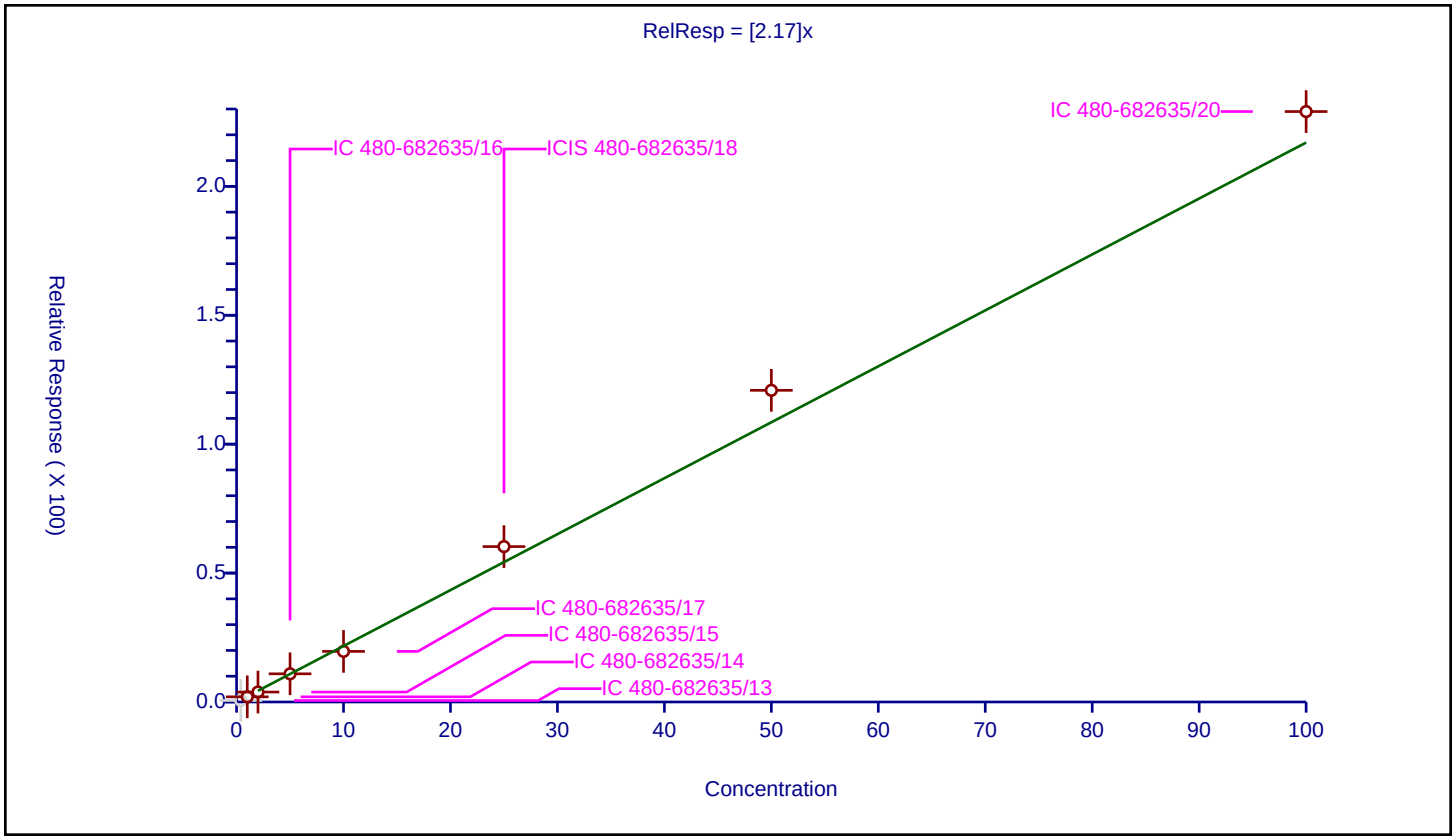
Curve Coefficients

Intercept:	0
Slope:	2.17

Error Coefficients

Standard Error:	524000
Relative Standard Error:	9.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.573553	25.0	131287.0	1.433881	N
2	IC 480-682635/14	1.0	1.996918	25.0	136936.0	1.996918	Y
3	IC 480-682635/15	2.0	3.848003	25.0	141411.0	1.924002	Y
4	IC 480-682635/16	5.0	10.929991	25.0	134012.0	2.185998	Y
5	IC 480-682635/17	10.0	19.624493	25.0	131276.0	1.962449	Y
6	ICIS 480-682635/18	25.0	60.280902	25.0	124403.0	2.411236	Y
7	IC 480-682635/19	50.0	120.887876	25.0	121160.0	2.417758	Y
8	IC 480-682635/20	100.0	229.016198	25.0	119460.0	2.290162	Y



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Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

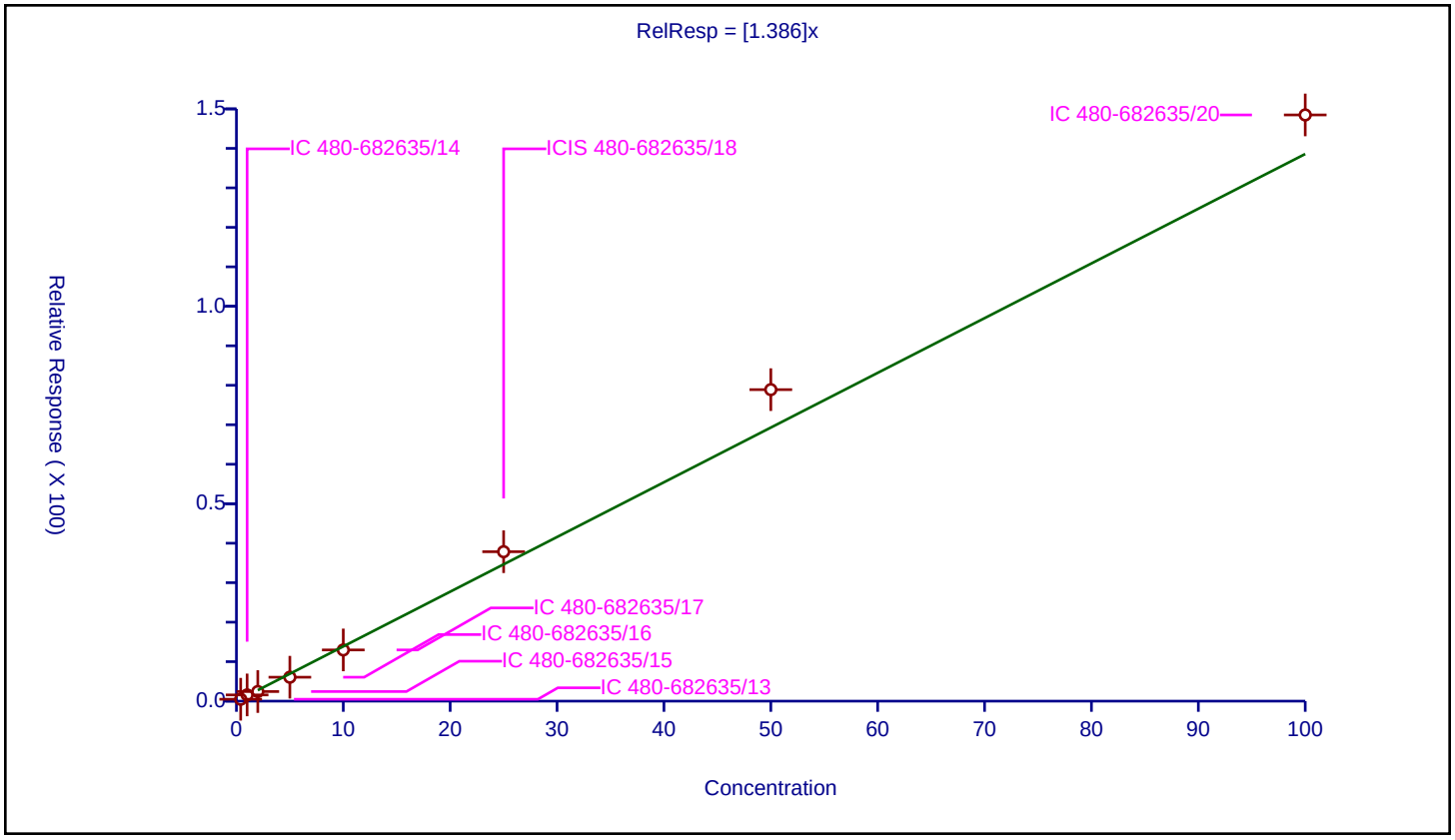
Curve Coefficients

Intercept:	0
Slope:	1.386

Error Coefficients

Standard Error:	314000
Relative Standard Error:	12.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.485006	25.0	131287.0	1.212515	Y
2	IC 480-682635/14	1.0	1.57318	25.0	136936.0	1.57318	Y
3	IC 480-682635/15	2.0	2.430504	25.0	141411.0	1.215252	Y
4	IC 480-682635/16	5.0	6.057853	25.0	134012.0	1.211571	Y
5	IC 480-682635/17	10.0	12.971335	25.0	131276.0	1.297134	Y
6	ICIS 480-682635/18	25.0	37.846555	25.0	124403.0	1.513862	Y
7	IC 480-682635/19	50.0	78.890929	25.0	121160.0	1.577819	Y
8	IC 480-682635/20	100.0	148.466014	25.0	119460.0	1.48466	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

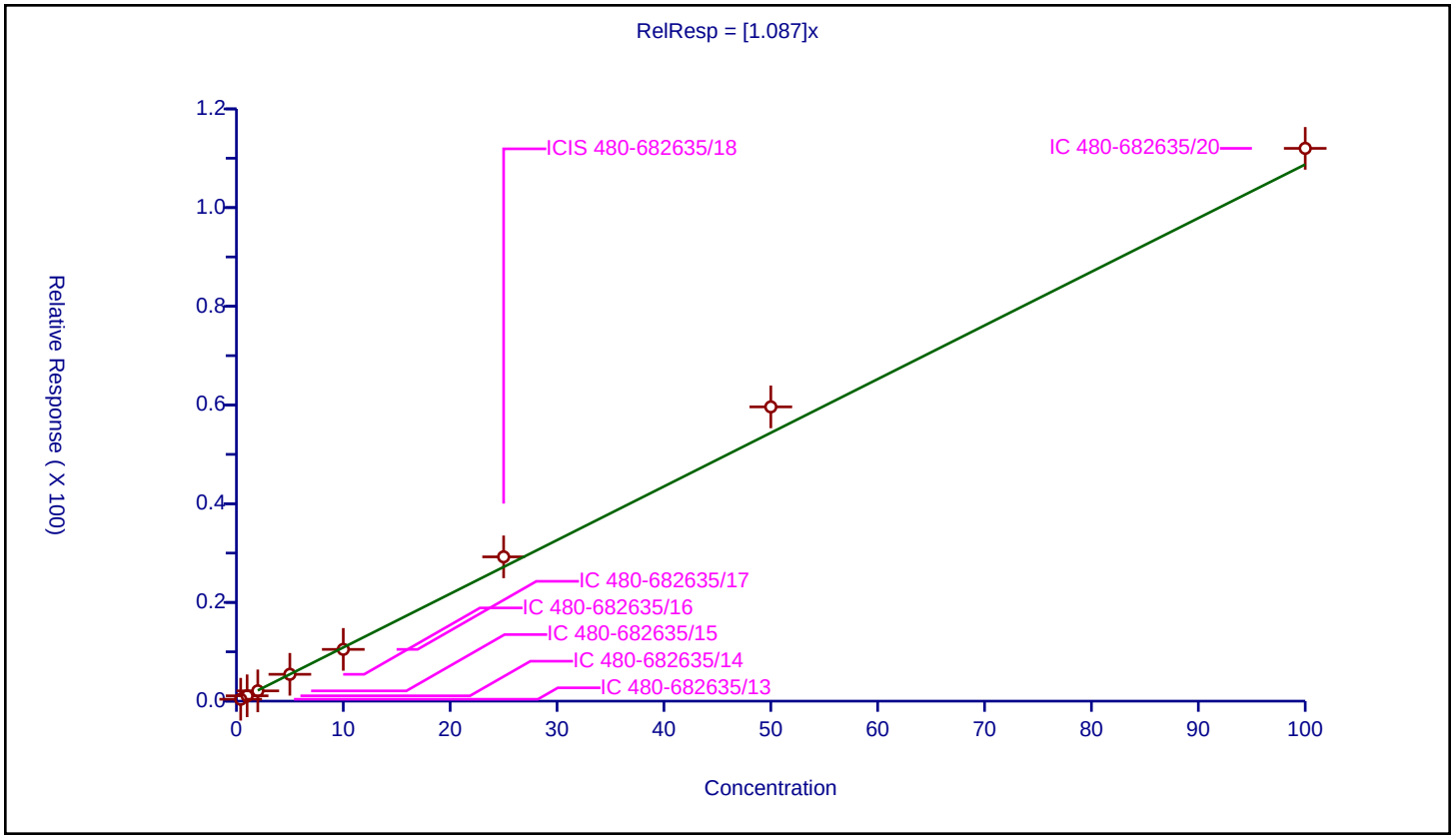
Curve Coefficients

Intercept:	0
Slope:	1.087

Error Coefficients

Standard Error:	238000
Relative Standard Error:	6.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.383892	25.0	131287.0	0.959729	Y
2	IC 480-682635/14	1.0	1.080979	25.0	136936.0	1.080979	Y
3	IC 480-682635/15	2.0	2.081698	25.0	141411.0	1.040849	Y
4	IC 480-682635/16	5.0	5.43664	25.0	134012.0	1.087328	Y
5	IC 480-682635/17	10.0	10.488398	25.0	131276.0	1.04884	Y
6	ICIS 480-682635/18	25.0	29.233419	25.0	124403.0	1.169337	Y
7	IC 480-682635/19	50.0	59.621987	25.0	121160.0	1.19244	Y
8	IC 480-682635/20	100.0	112.004018	25.0	119460.0	1.12004	Y



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Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

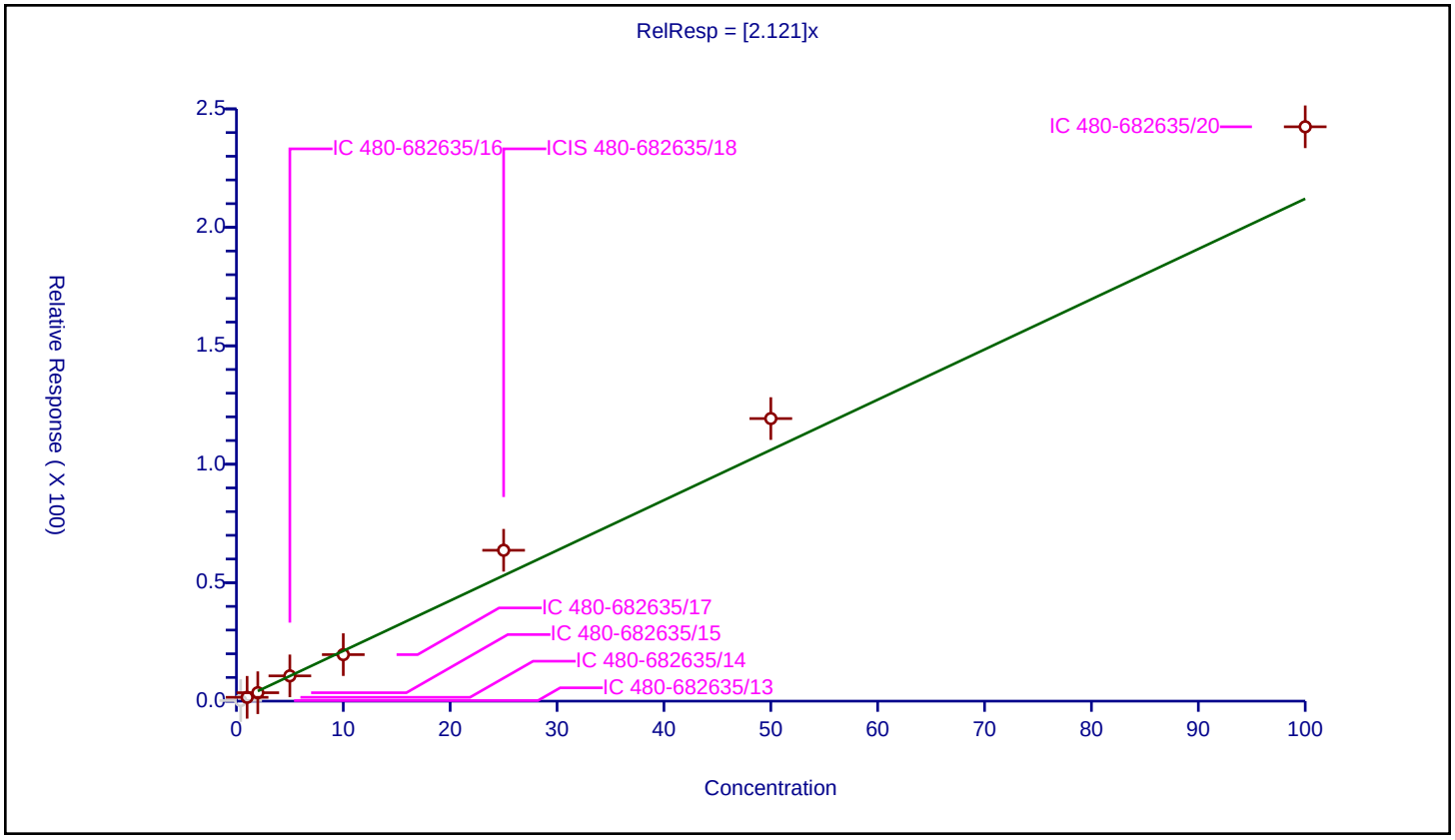
Curve Coefficients

Intercept:	0
Slope:	2.121

Error Coefficients

Standard Error:	546000
Relative Standard Error:	16.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.239361	25.0	131287.0	0.598403	N
2	IC 480-682635/14	1.0	1.609328	25.0	136936.0	1.609328	Y
3	IC 480-682635/15	2.0	3.562842	25.0	141411.0	1.781421	Y
4	IC 480-682635/16	5.0	10.663784	25.0	134012.0	2.132757	Y
5	IC 480-682635/17	10.0	19.63592	25.0	131276.0	1.963592	Y
6	ICIS 480-682635/18	25.0	63.690184	25.0	124403.0	2.547607	Y
7	IC 480-682635/19	50.0	119.283386	25.0	121160.0	2.385668	Y
8	IC 480-682635/20	100.0	242.441403	25.0	119460.0	2.424414	Y



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Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

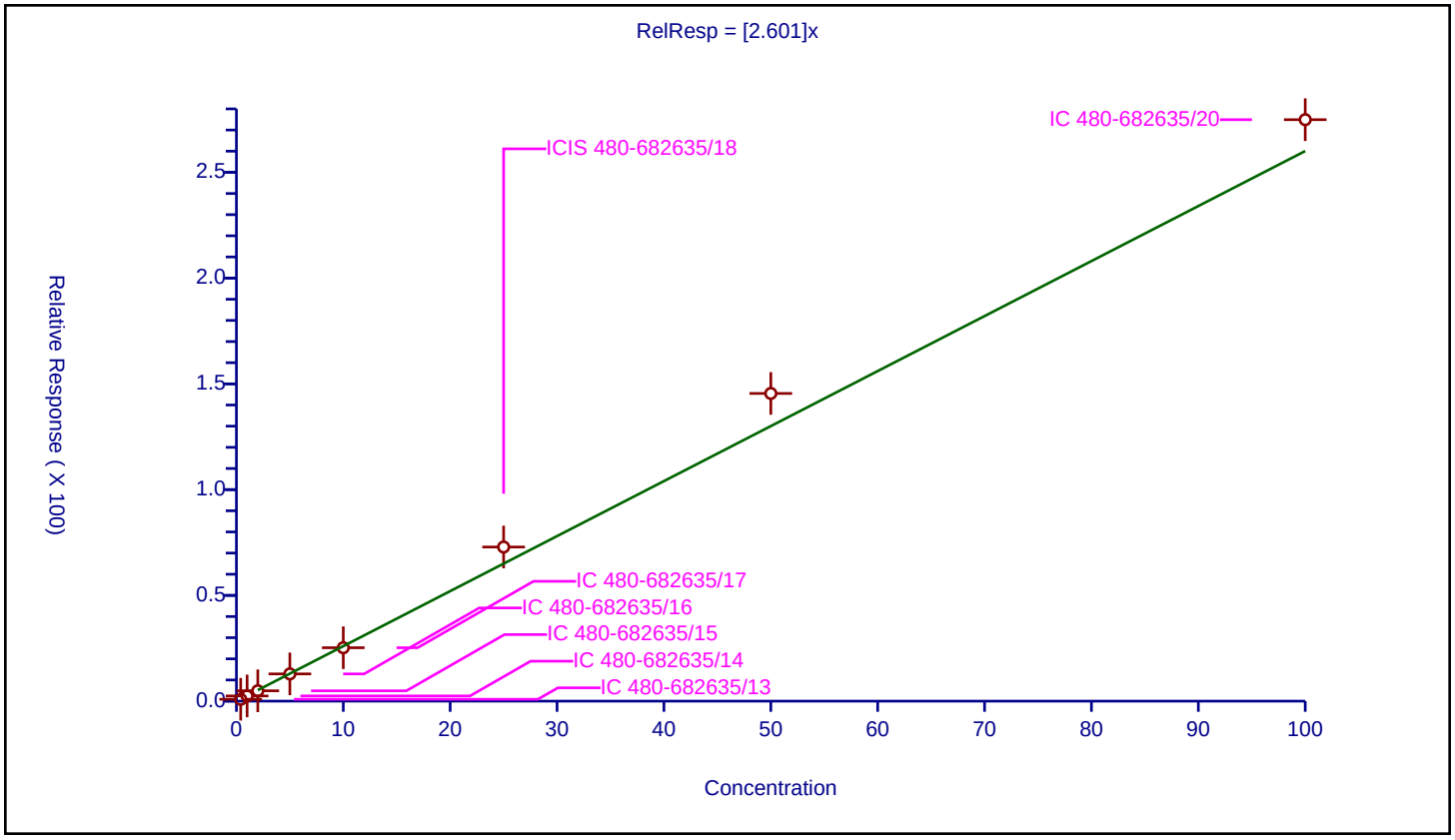
Curve Coefficients

Intercept:	0
Slope:	2.601

Error Coefficients

Standard Error:	583000
Relative Standard Error:	9.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.886036	25.0	131287.0	2.21509	Y
2	IC 480-682635/14	1.0	2.467576	25.0	136936.0	2.467576	Y
3	IC 480-682635/15	2.0	4.897957	25.0	141411.0	2.448979	Y
4	IC 480-682635/16	5.0	12.879071	25.0	134012.0	2.575814	Y
5	IC 480-682635/17	10.0	25.248522	25.0	131276.0	2.524852	Y
6	ICIS 480-682635/18	25.0	72.863597	25.0	124403.0	2.914544	Y
7	IC 480-682635/19	50.0	145.464881	25.0	121160.0	2.909298	Y
8	IC 480-682635/20	100.0	274.904571	25.0	119460.0	2.749046	Y



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Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

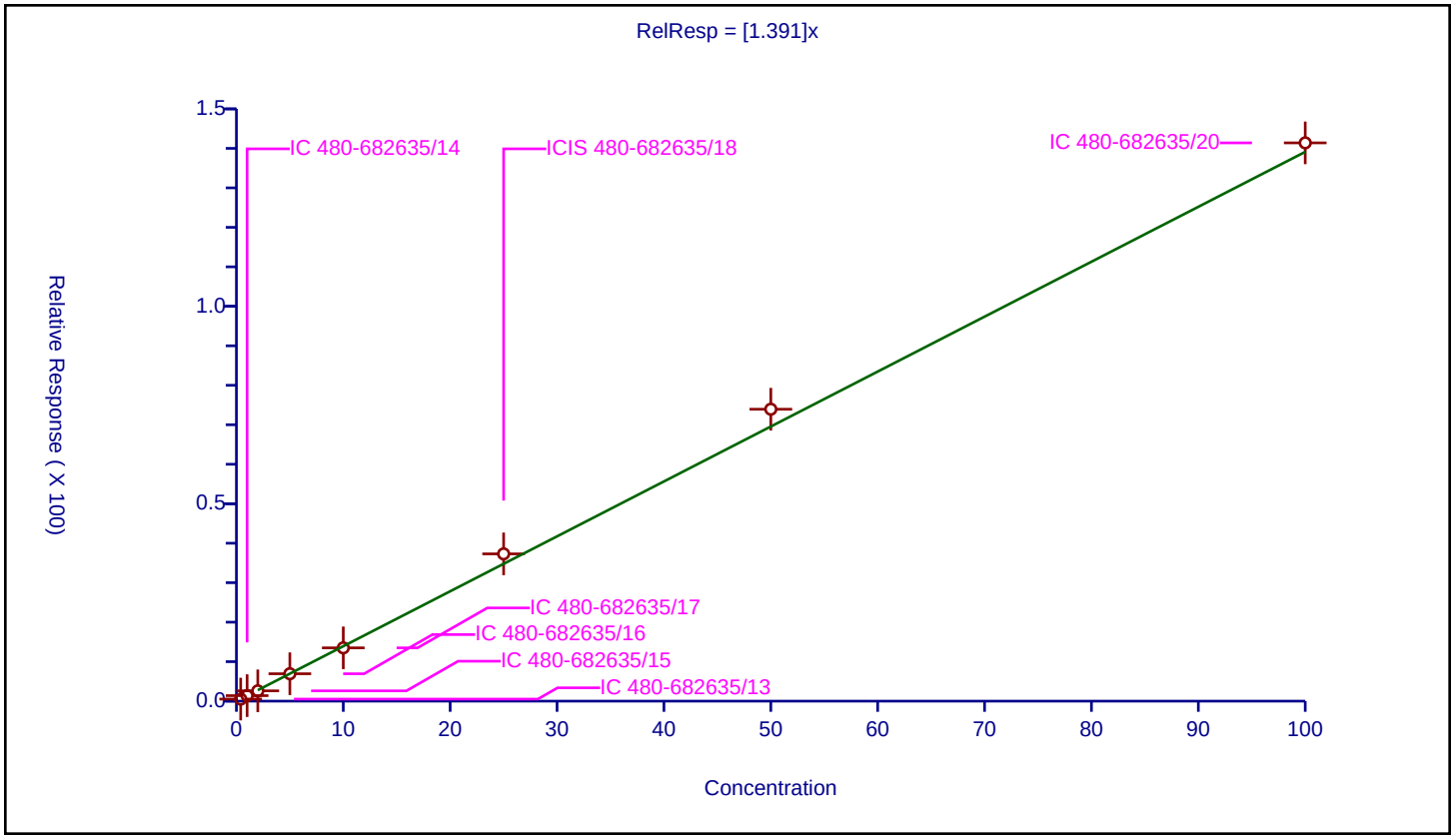
Curve Coefficients

Intercept:	0
Slope:	1.391

Error Coefficients

Standard Error:	299000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.523281	25.0	131287.0	1.308203	Y
2	IC 480-682635/14	1.0	1.393717	25.0	136936.0	1.393717	Y
3	IC 480-682635/15	2.0	2.610122	25.0	141411.0	1.305061	Y
4	IC 480-682635/16	5.0	6.939117	25.0	134012.0	1.387823	Y
5	IC 480-682635/17	10.0	13.492565	25.0	131276.0	1.349257	Y
6	ICIS 480-682635/18	25.0	37.300748	25.0	124403.0	1.49203	Y
7	IC 480-682635/19	50.0	73.937562	25.0	121160.0	1.478751	Y
8	IC 480-682635/20	100.0	141.394191	25.0	119460.0	1.413942	Y



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Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

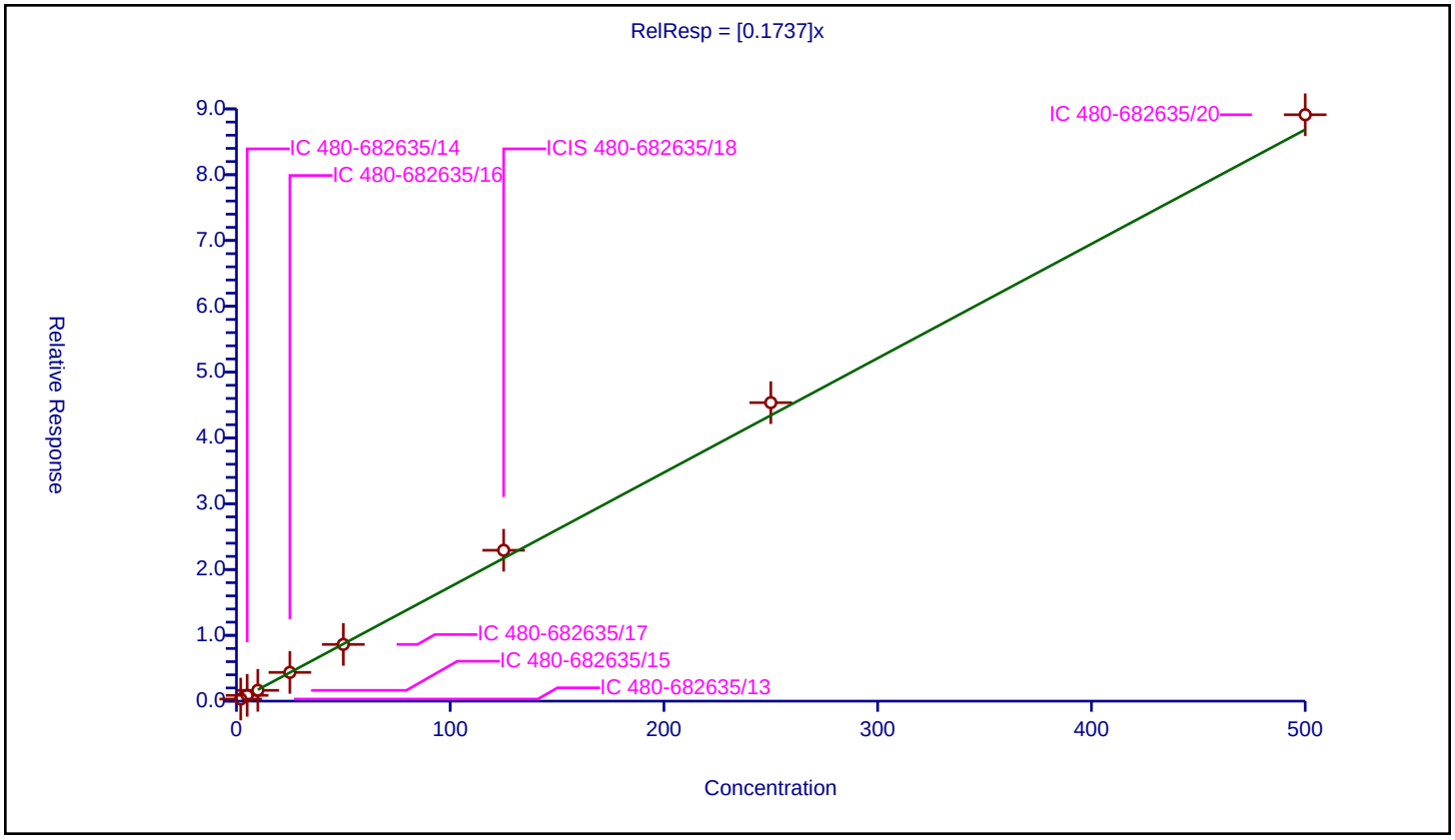
Curve Coefficients

Intercept:	0
Slope:	0.1737

Error Coefficients

Standard Error:	187000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	2.0	0.318386	25.0	131287.0	0.159193	Y
2	IC 480-682635/14	5.0	0.881251	25.0	136936.0	0.17625	Y
3	IC 480-682635/15	10.0	1.639901	25.0	141411.0	0.16399	Y
4	IC 480-682635/16	25.0	4.368452	25.0	134012.0	0.174738	Y
5	IC 480-682635/17	50.0	8.619435	25.0	131276.0	0.172389	Y
6	ICIS 480-682635/18	125.0	22.925894	25.0	124403.0	0.183407	Y
7	IC 480-682635/19	250.0	45.359648	25.0	121160.0	0.181439	Y
8	IC 480-682635/20	500.0	89.112464	25.0	119460.0	0.178225	Y



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Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

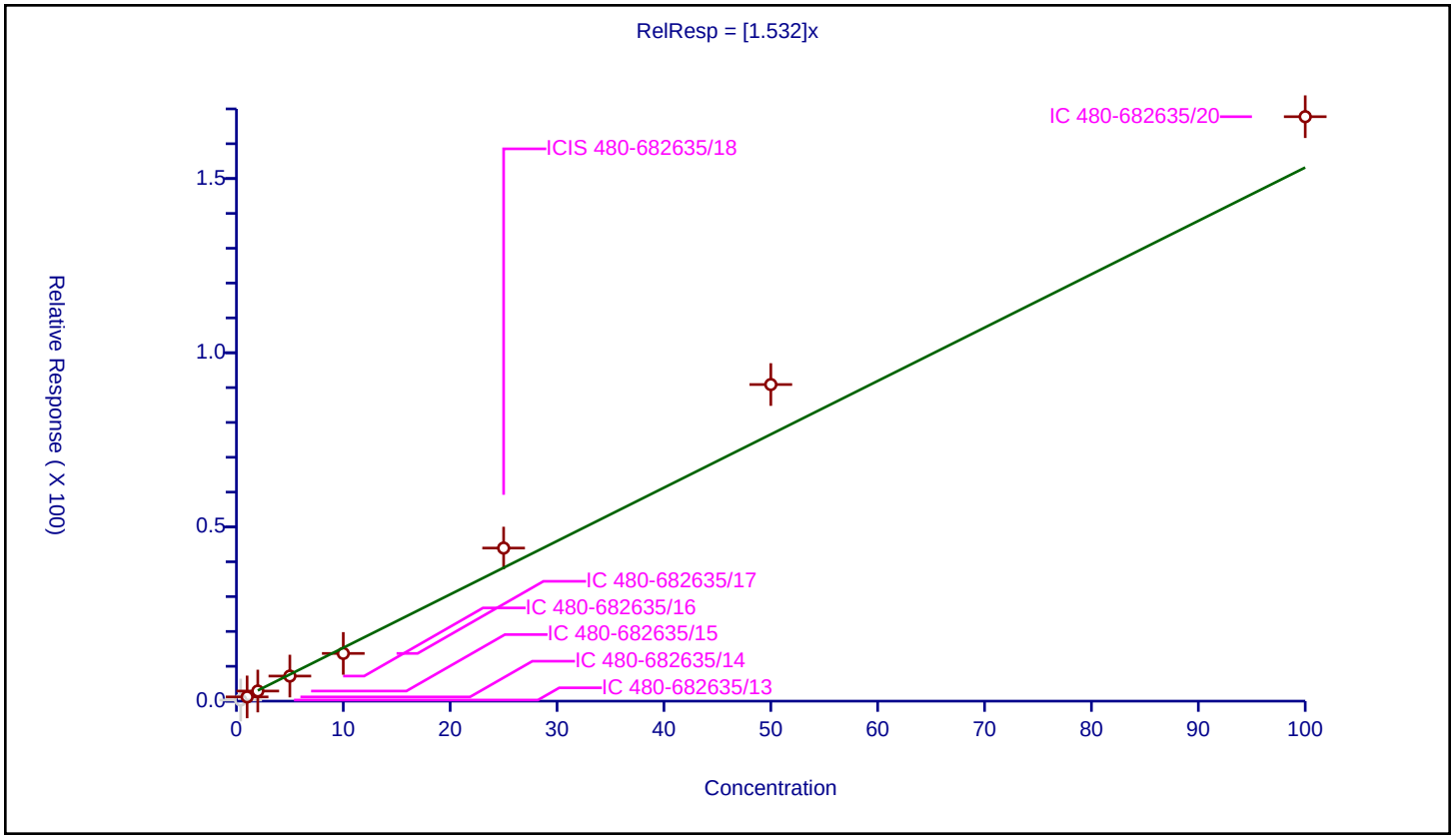
Curve Coefficients

Intercept:	0
Slope:	1.532

Error Coefficients

Standard Error:	385000
Relative Standard Error:	14.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.317625	25.0	131287.0	0.794062	N
2	IC 480-682635/14	1.0	1.210419	25.0	136936.0	1.210419	Y
3	IC 480-682635/15	2.0	2.89882	25.0	141411.0	1.44941	Y
4	IC 480-682635/16	5.0	7.200288	25.0	134012.0	1.440058	Y
5	IC 480-682635/17	10.0	13.692716	25.0	131276.0	1.369272	Y
6	ICIS 480-682635/18	25.0	43.939053	25.0	124403.0	1.757562	Y
7	IC 480-682635/19	50.0	90.881479	25.0	121160.0	1.81763	Y
8	IC 480-682635/20	100.0	167.762849	25.0	119460.0	1.677628	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

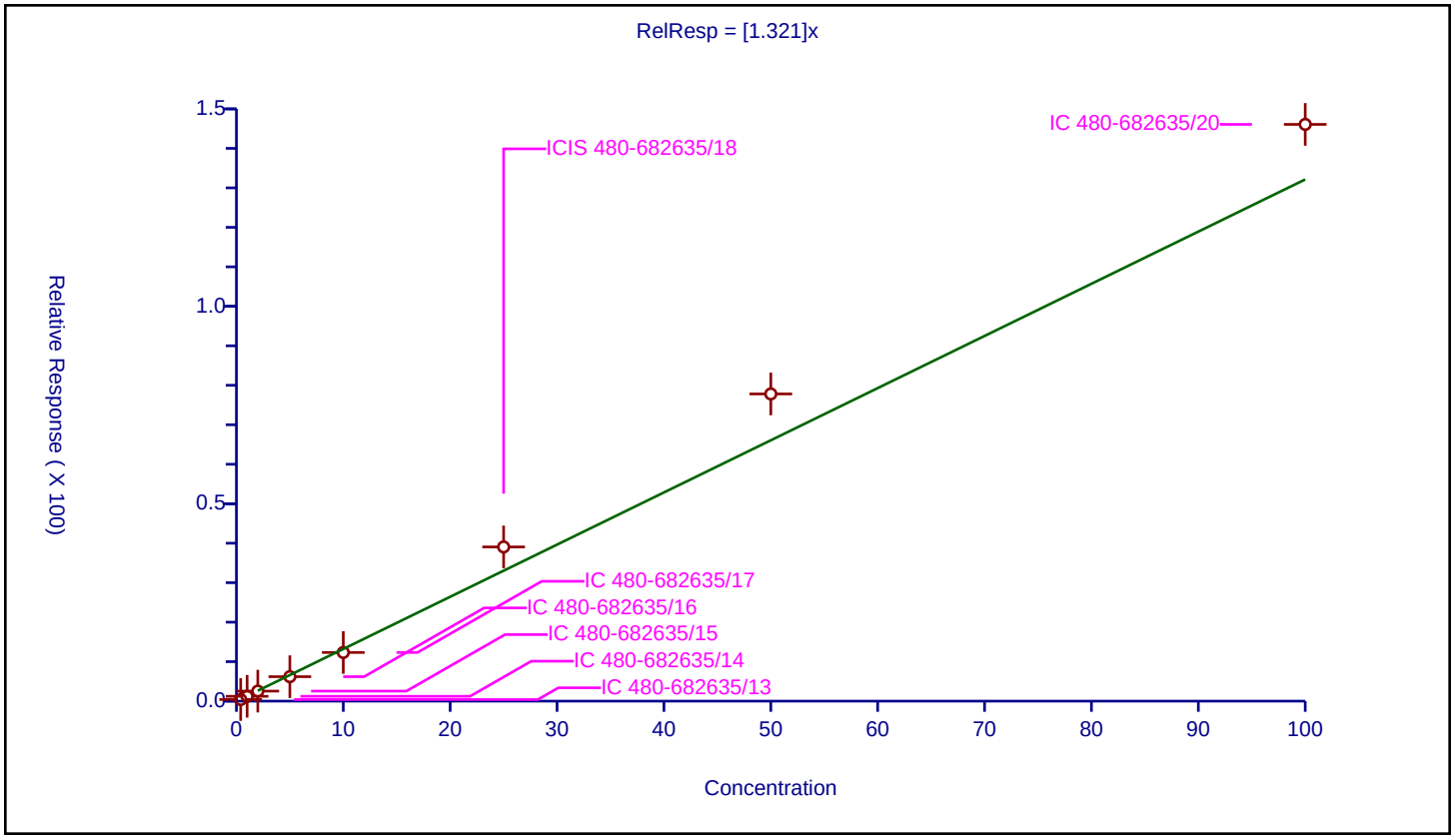
Curve Coefficients

Intercept:	0
Slope:	1.321

Error Coefficients

Standard Error:	310000
Relative Standard Error:	14.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.409789	25.0	131287.0	1.024473	Y
2	IC 480-682635/14	1.0	1.226485	25.0	136936.0	1.226485	Y
3	IC 480-682635/15	2.0	2.538346	25.0	141411.0	1.269173	Y
4	IC 480-682635/16	5.0	6.193475	25.0	134012.0	1.238695	Y
5	IC 480-682635/17	10.0	12.326701	25.0	131276.0	1.23267	Y
6	ICIS 480-682635/18	25.0	39.052314	25.0	124403.0	1.562093	Y
7	IC 480-682635/19	50.0	77.809302	25.0	121160.0	1.556186	Y
8	IC 480-682635/20	100.0	146.07107	25.0	119460.0	1.460711	Y



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Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

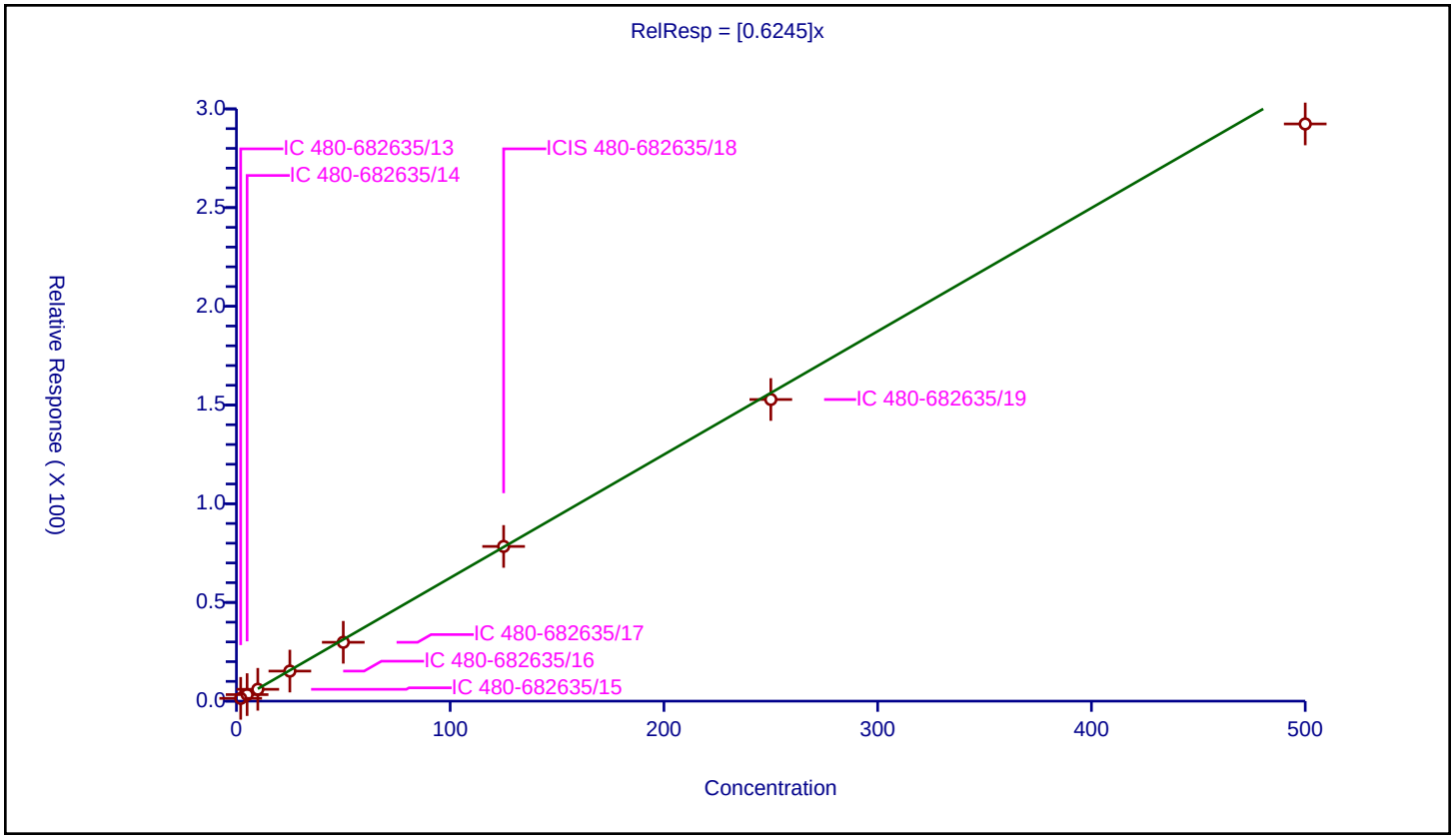
Curve Coefficients

Intercept:	0
Slope:	0.6245

Error Coefficients

Standard Error:	619000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	2.0	1.415601	25.0	131287.0	0.7078	Y
2	IC 480-682635/14	5.0	3.306654	25.0	136936.0	0.661331	Y
3	IC 480-682635/15	10.0	5.992108	25.0	141411.0	0.599211	Y
4	IC 480-682635/16	25.0	15.222331	25.0	134012.0	0.608893	Y
5	IC 480-682635/17	50.0	29.806286	25.0	131276.0	0.596126	Y
6	ICIS 480-682635/18	125.0	78.370698	25.0	124403.0	0.626966	Y
7	IC 480-682635/19	250.0	152.792588	25.0	121160.0	0.61117	Y
8	IC 480-682635/20	500.0	292.372342	25.0	119460.0	0.584745	Y



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Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

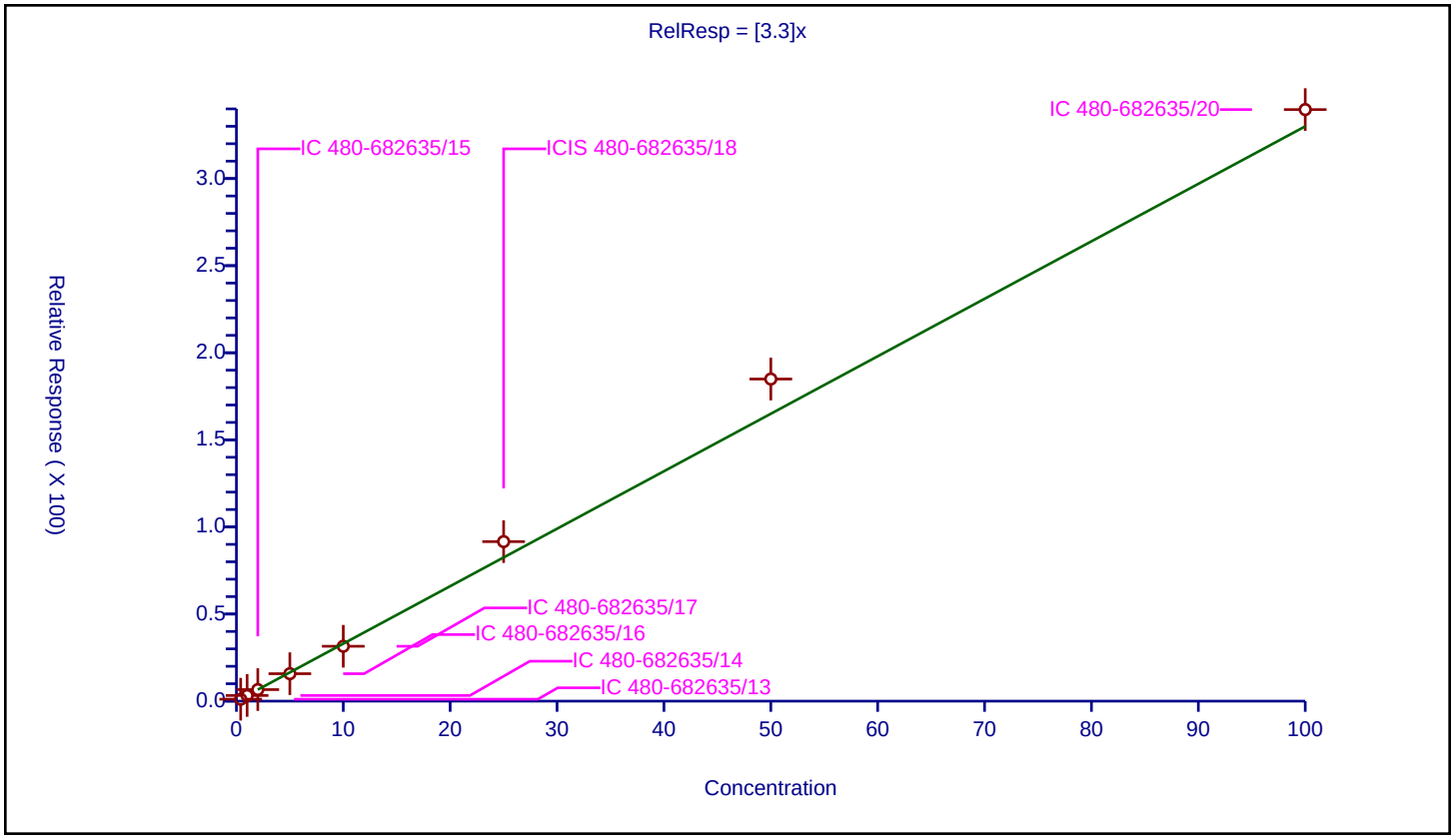
Curve Coefficients

Intercept:	0
Slope:	3.3

Error Coefficients

Standard Error:	725000
Relative Standard Error:	9.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.114162	25.0	131287.0	2.785405	Y
2	IC 480-682635/14	1.0	3.242573	25.0	136936.0	3.242573	Y
3	IC 480-682635/15	2.0	6.621479	25.0	141411.0	3.31074	Y
4	IC 480-682635/16	5.0	15.749336	25.0	134012.0	3.149867	Y
5	IC 480-682635/17	10.0	31.508615	25.0	131276.0	3.150862	Y
6	ICIS 480-682635/18	25.0	91.57657	25.0	124403.0	3.663063	Y
7	IC 480-682635/19	50.0	184.910036	25.0	121160.0	3.698201	Y
8	IC 480-682635/20	100.0	339.604261	25.0	119460.0	3.396043	Y



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Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

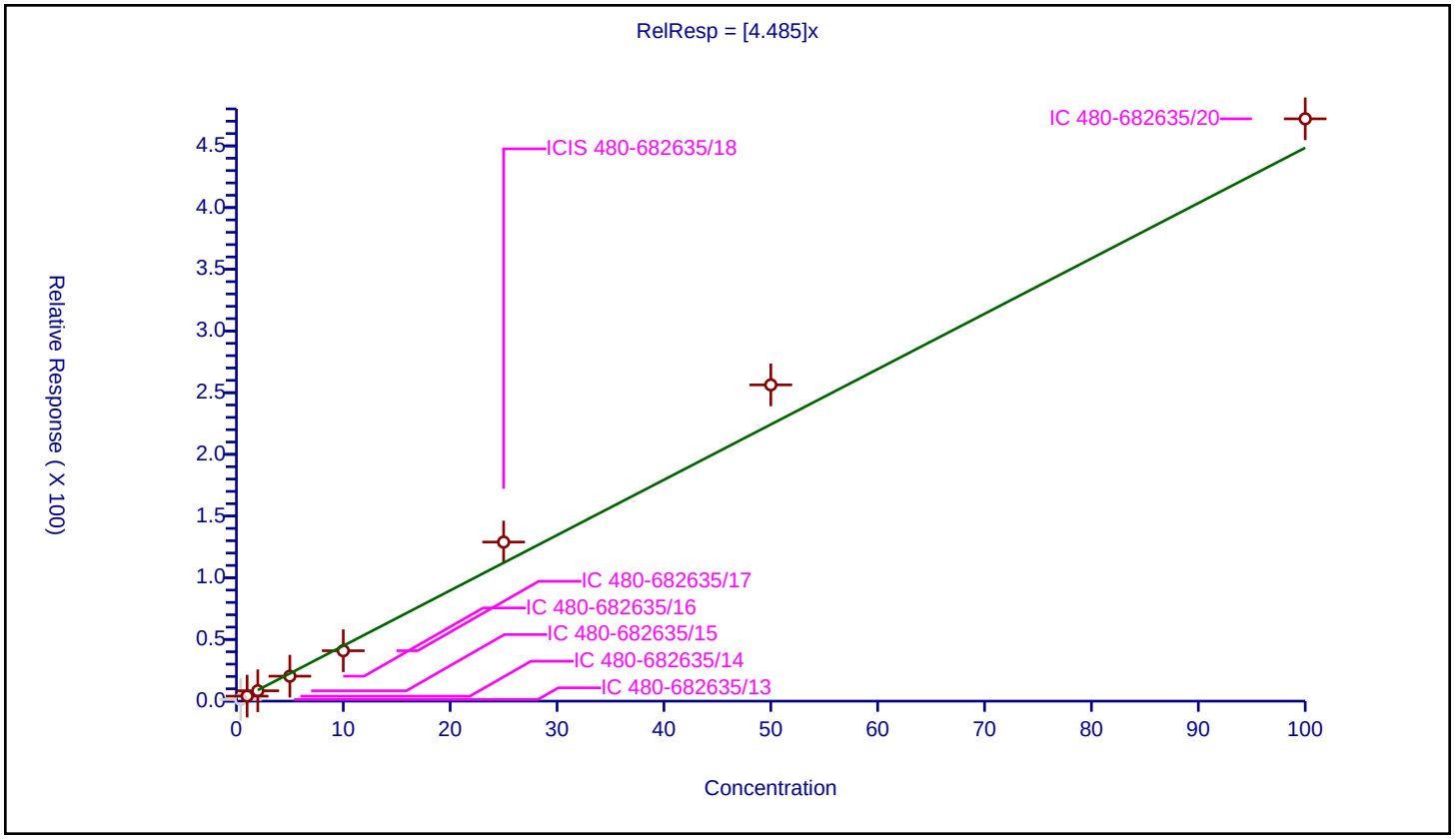
Curve Coefficients

Intercept:	0
Slope:	4.485

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	11.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.325722	25.0	131287.0	3.314304	N
2	IC 480-682635/14	1.0	4.054814	25.0	136936.0	4.054814	Y
3	IC 480-682635/15	2.0	8.399453	25.0	141411.0	4.199726	Y
4	IC 480-682635/16	5.0	20.245388	25.0	134012.0	4.049078	Y
5	IC 480-682635/17	10.0	40.850765	25.0	131276.0	4.085076	Y
6	ICIS 480-682635/18	25.0	128.928362	25.0	124403.0	5.157134	Y
7	IC 480-682635/19	50.0	256.323869	25.0	121160.0	5.126477	Y
8	IC 480-682635/20	100.0	471.955676	25.0	119460.0	4.719557	Y



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Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

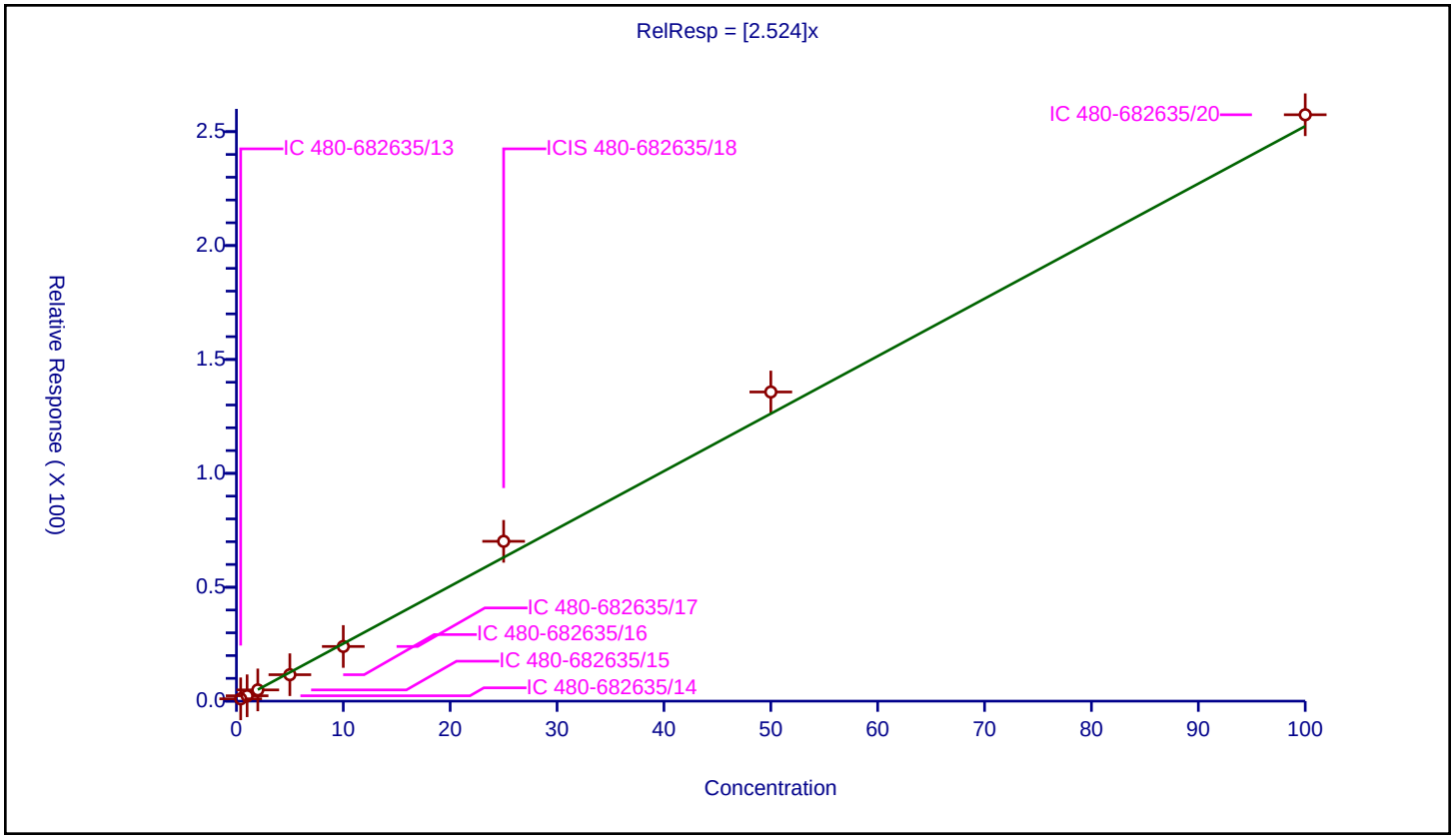
Curve Coefficients

Intercept:	0
Slope:	2.524

Error Coefficients

Standard Error:	546000
Relative Standard Error:	6.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.021426	25.0	131287.0	2.553566	Y
2	IC 480-682635/14	1.0	2.361505	25.0	136936.0	2.361505	Y
3	IC 480-682635/15	2.0	4.924299	25.0	141411.0	2.462149	Y
4	IC 480-682635/16	5.0	11.605677	25.0	134012.0	2.321135	Y
5	IC 480-682635/17	10.0	23.993914	25.0	131276.0	2.399391	Y
6	ICIS 480-682635/18	25.0	70.160687	25.0	124403.0	2.806427	Y
7	IC 480-682635/19	50.0	135.724455	25.0	121160.0	2.714489	Y
8	IC 480-682635/20	100.0	257.43073	25.0	119460.0	2.574307	Y



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Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

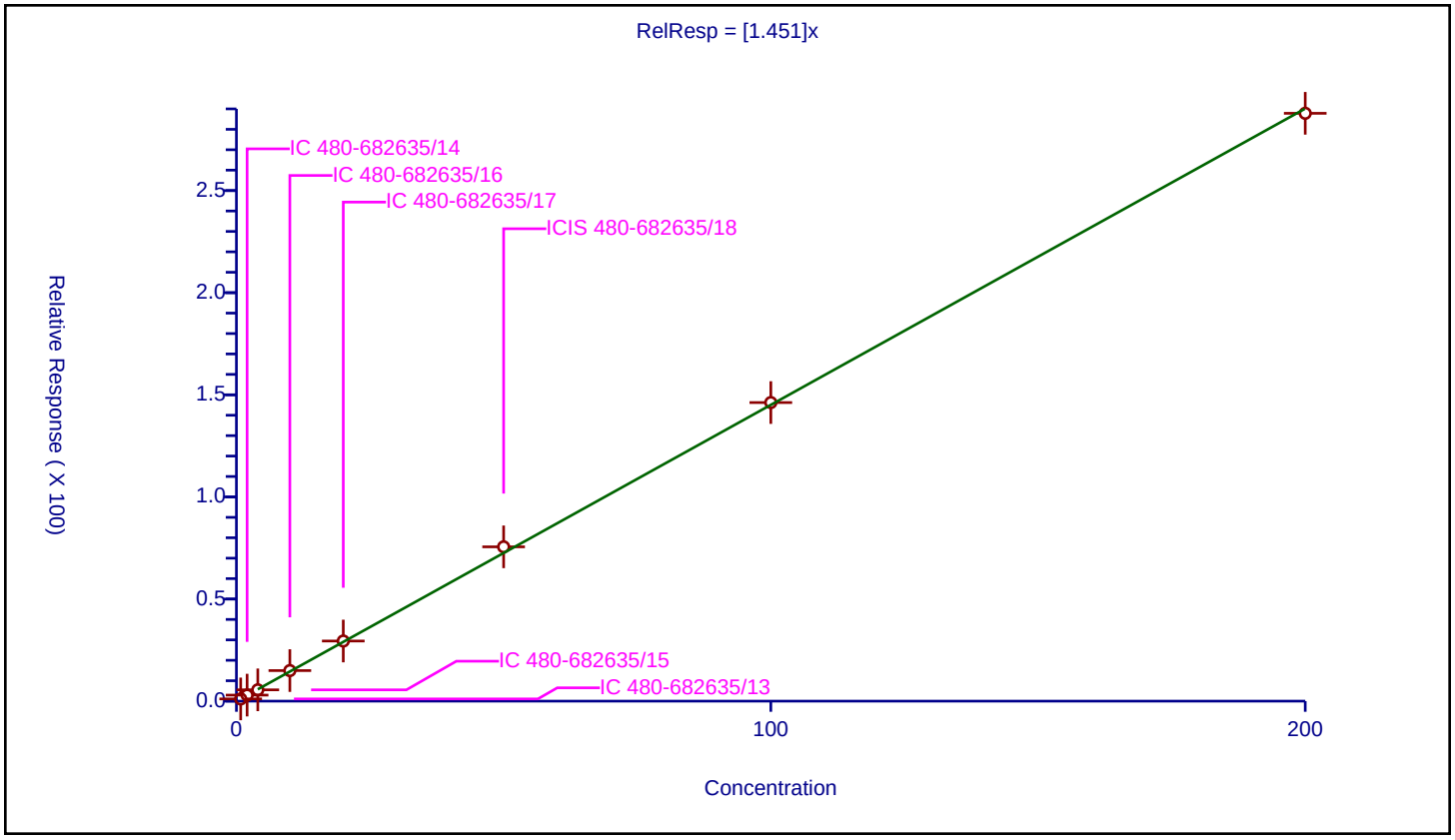
Curve Coefficients

Intercept:	0
Slope:	1.451

Error Coefficients

Standard Error:	605000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.8	1.093216	25.0	131287.0	1.36652	Y
2	IC 480-682635/14	2.0	2.947545	25.0	136936.0	1.473772	Y
3	IC 480-682635/15	4.0	5.538819	25.0	141411.0	1.384705	Y
4	IC 480-682635/16	10.0	14.961347	25.0	134012.0	1.496135	Y
5	IC 480-682635/17	20.0	29.447309	25.0	131276.0	1.472365	Y
6	ICIS 480-682635/18	50.0	75.555051	25.0	124403.0	1.511101	Y
7	IC 480-682635/19	100.0	146.198003	25.0	121160.0	1.46198	Y
8	IC 480-682635/20	200.0	287.829818	25.0	119460.0	1.439149	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

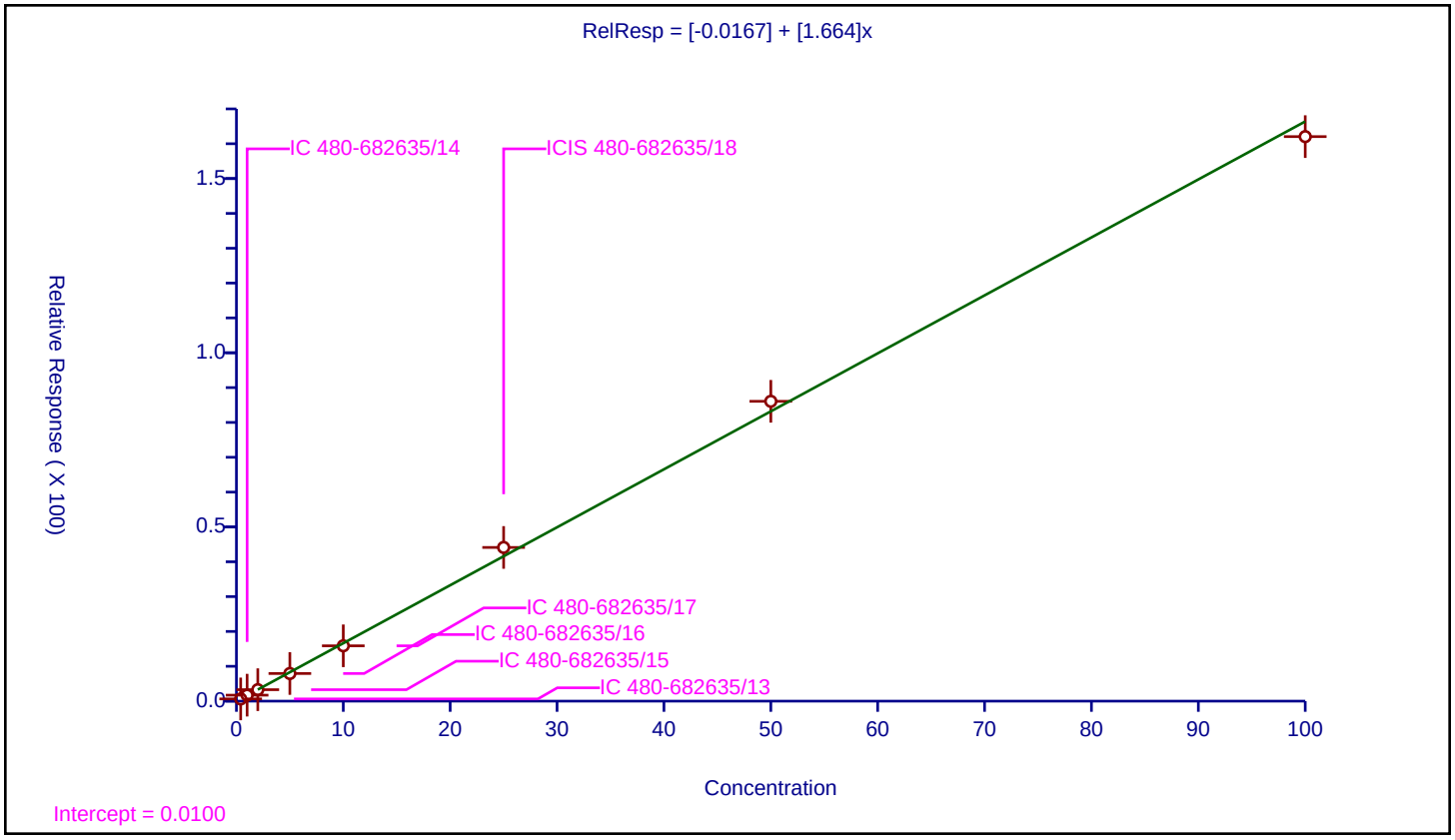
Curve Coefficients

Intercept:	-0.0167
Slope:	1.664

Error Coefficients

Standard Error:	372000
Relative Standard Error:	4.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.636392	25.0	131287.0	1.59098	Y
2	IC 480-682635/14	1.0	1.719599	25.0	136936.0	1.719599	Y
3	IC 480-682635/15	2.0	3.294121	25.0	141411.0	1.647061	Y
4	IC 480-682635/16	5.0	7.935297	25.0	134012.0	1.587059	Y
5	IC 480-682635/17	10.0	15.881235	25.0	131276.0	1.588123	Y
6	ICIS 480-682635/18	25.0	44.119314	25.0	124403.0	1.764773	Y
7	IC 480-682635/19	50.0	86.06574	25.0	121160.0	1.721315	Y
8	IC 480-682635/20	100.0	162.039176	25.0	119460.0	1.620392	Y



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Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

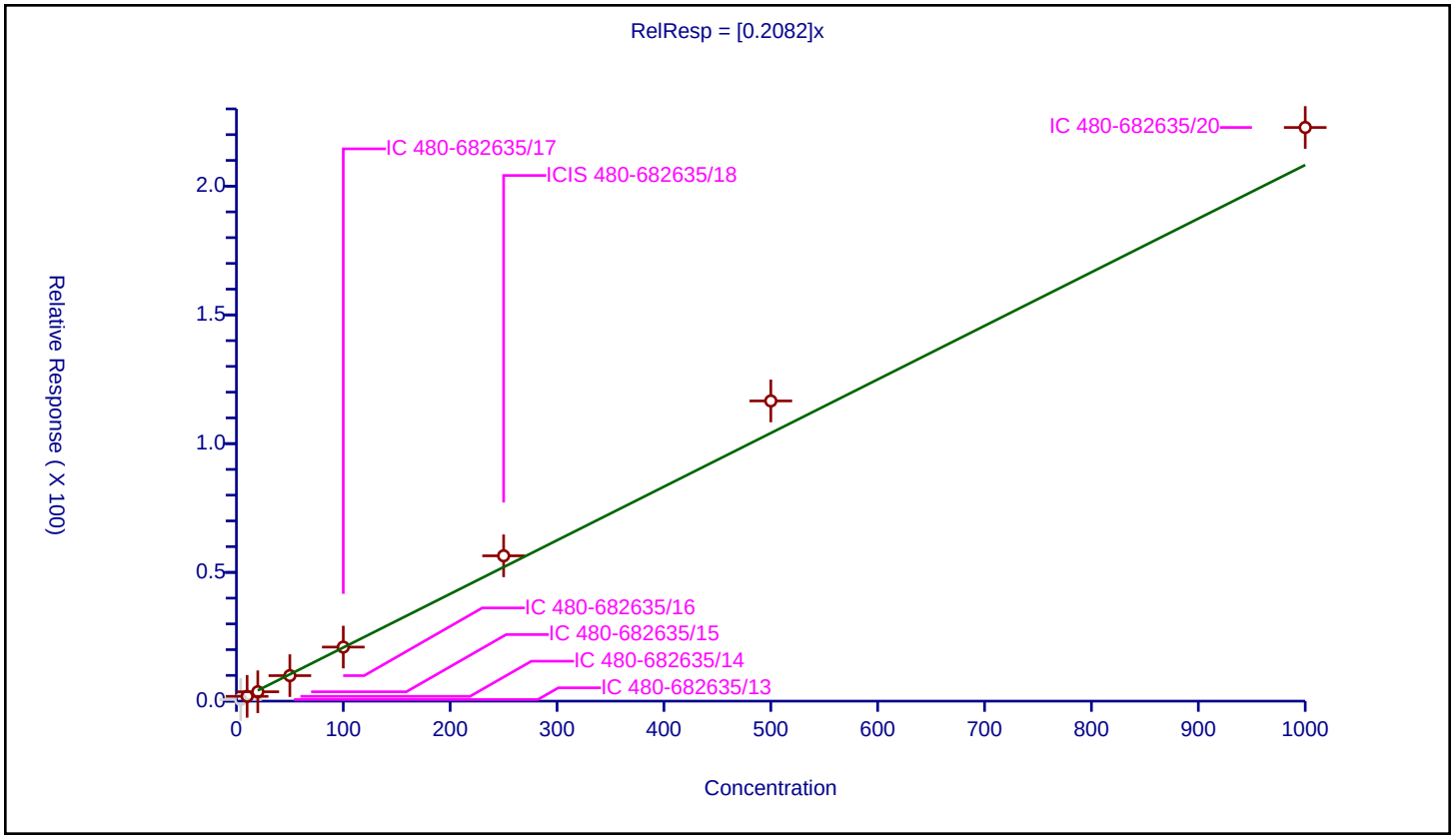
Curve Coefficients

Intercept:	0
Slope:	0.2082

Error Coefficients

Standard Error:	508000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	4.0	0.630299	25.0	131287.0	0.157575	N
2	IC 480-682635/14	10.0	1.857254	25.0	136936.0	0.185725	Y
3	IC 480-682635/15	20.0	3.640983	25.0	141411.0	0.182049	Y
4	IC 480-682635/16	50.0	9.906576	25.0	134012.0	0.198132	Y
5	IC 480-682635/17	100.0	20.989366	25.0	131276.0	0.209894	Y
6	ICIS 480-682635/18	250.0	56.439957	25.0	124403.0	0.22576	Y
7	IC 480-682635/19	500.0	116.588602	25.0	121160.0	0.233177	Y
8	IC 480-682635/20	1000.0	222.775406	25.0	119460.0	0.222775	Y



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Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

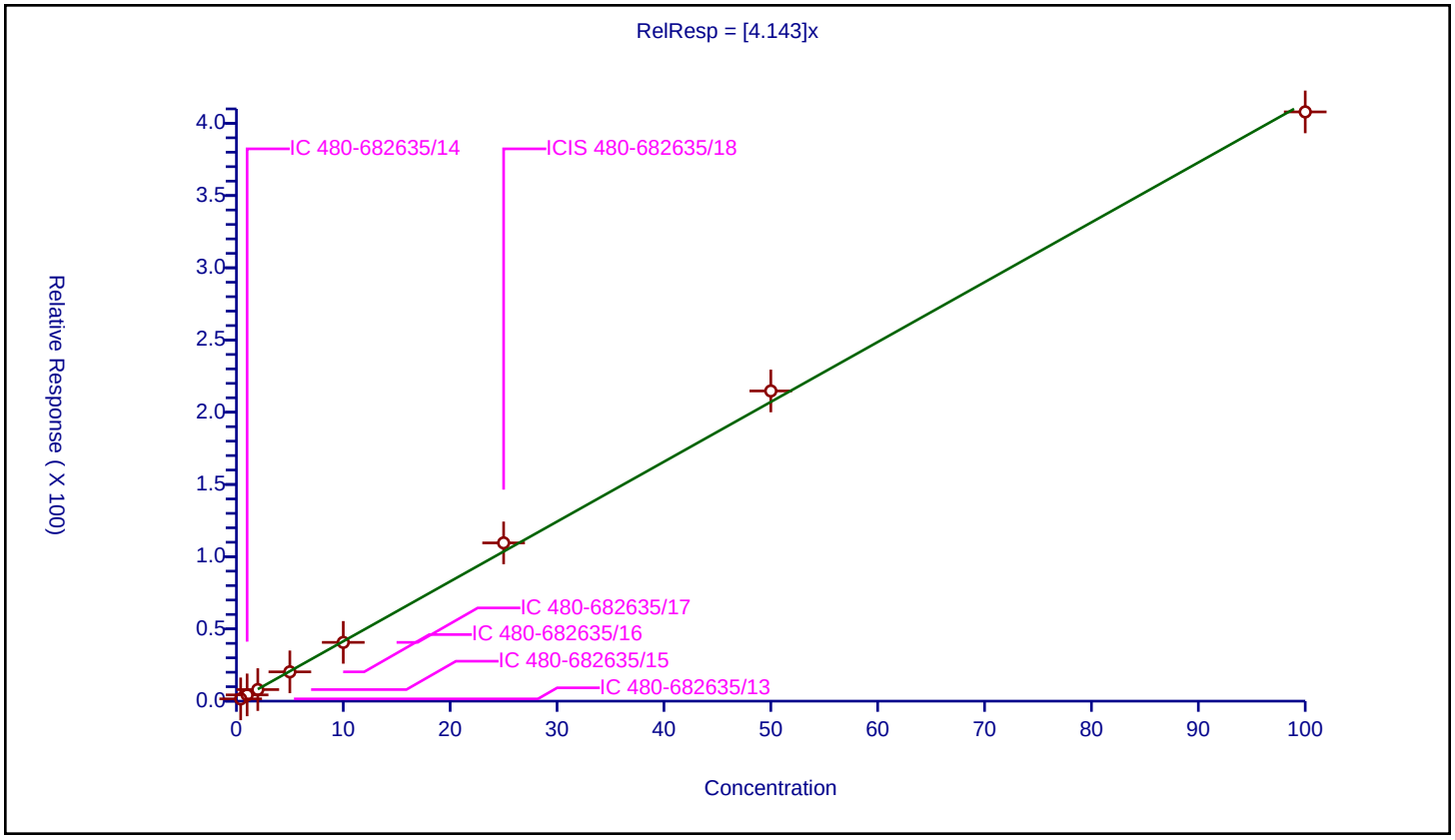
Curve Coefficients

Intercept:	0
Slope:	4.143

Error Coefficients

Standard Error:	865000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.578412	25.0	131287.0	3.94603	Y
2	IC 480-682635/14	1.0	4.319354	25.0	136936.0	4.319354	Y
3	IC 480-682635/15	2.0	8.005742	25.0	141411.0	4.002871	Y
4	IC 480-682635/16	5.0	20.267215	25.0	134012.0	4.053443	Y
5	IC 480-682635/17	10.0	40.674609	25.0	131276.0	4.067461	Y
6	ICIS 480-682635/18	25.0	109.558853	25.0	124403.0	4.382354	Y
7	IC 480-682635/19	50.0	214.73568	25.0	121160.0	4.294714	Y
8	IC 480-682635/20	100.0	407.908923	25.0	119460.0	4.079089	Y



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Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

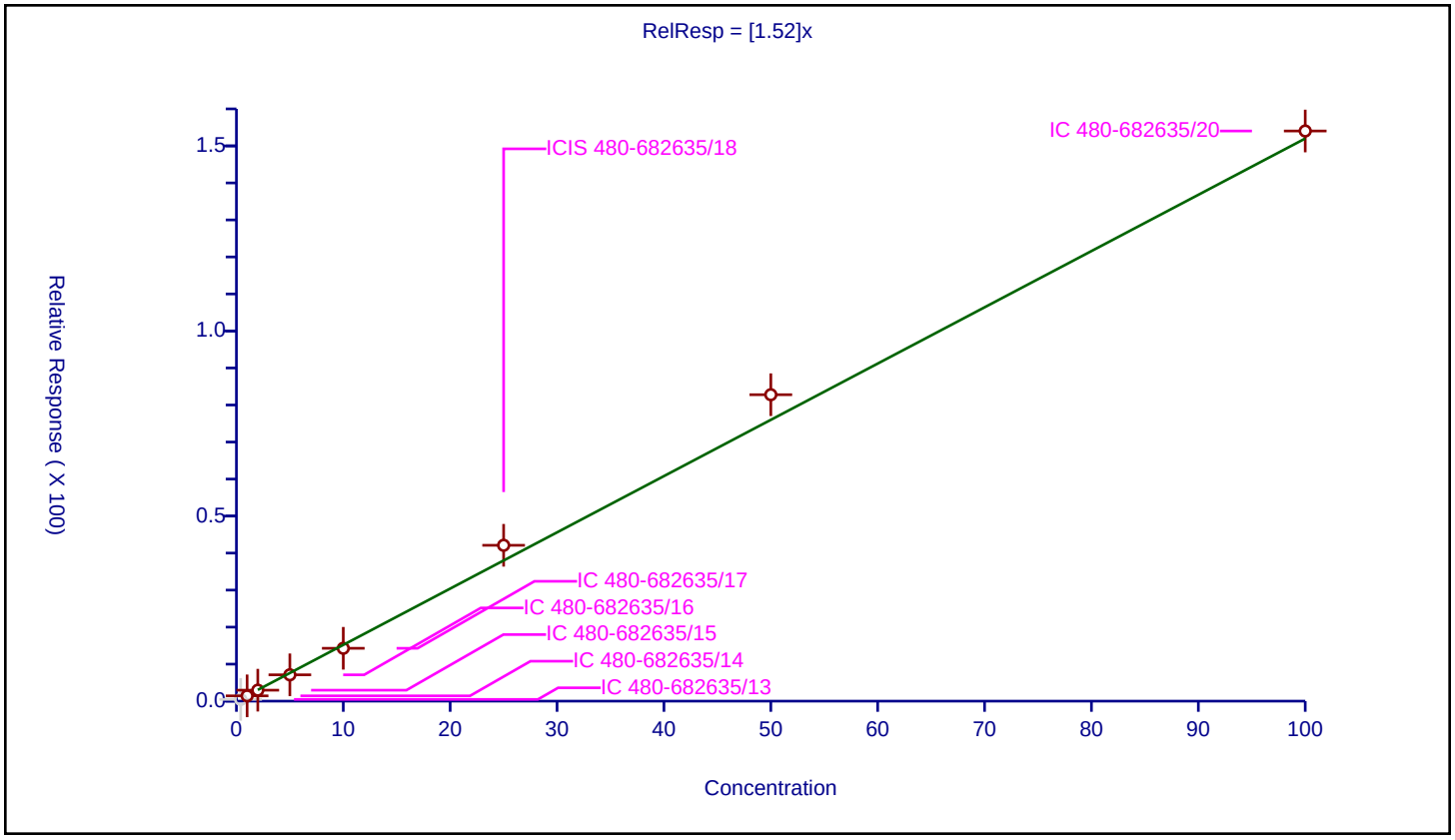
Curve Coefficients

Intercept:	0
Slope:	1.52

Error Coefficients

Standard Error:	354000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.474342	25.0	131287.0	1.185856	N
2	IC 480-682635/14	1.0	1.428952	25.0	136936.0	1.428952	Y
3	IC 480-682635/15	2.0	2.958928	25.0	141411.0	1.479464	Y
4	IC 480-682635/16	5.0	7.112423	25.0	134012.0	1.422485	Y
5	IC 480-682635/17	10.0	14.282504	25.0	131276.0	1.42825	Y
6	ICIS 480-682635/18	25.0	42.100673	25.0	124403.0	1.684027	Y
7	IC 480-682635/19	50.0	82.786192	25.0	121160.0	1.655724	Y
8	IC 480-682635/20	100.0	154.026871	25.0	119460.0	1.540269	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

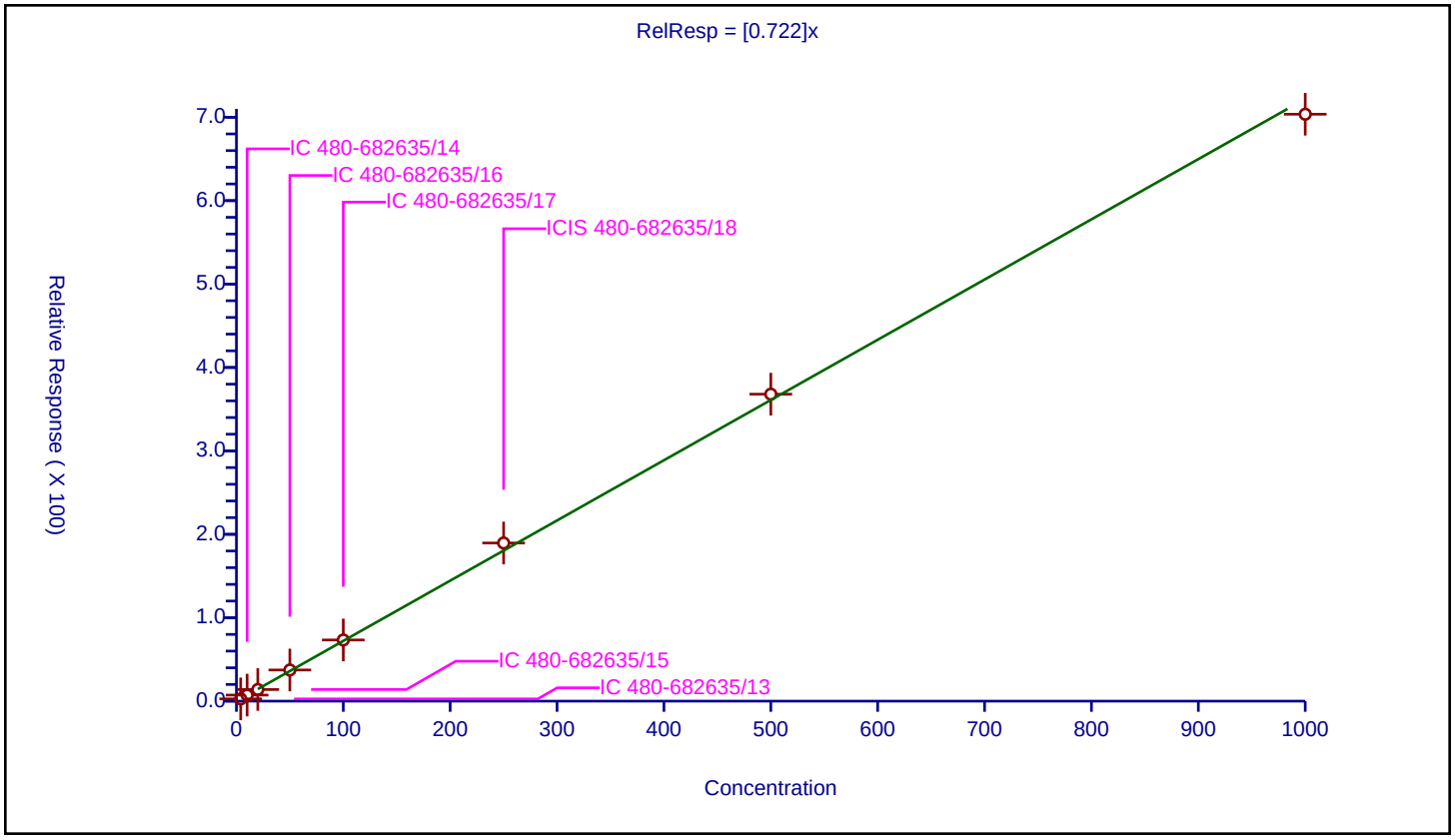
Curve Coefficients

Intercept:	0
Slope:	0.722

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	4.0	2.693907	25.0	131287.0	0.673477	Y
2	IC 480-682635/14	10.0	7.274019	25.0	136936.0	0.727402	Y
3	IC 480-682635/15	20.0	13.943222	25.0	141411.0	0.697161	Y
4	IC 480-682635/16	50.0	37.336582	25.0	134012.0	0.746732	Y
5	IC 480-682635/17	100.0	73.320904	25.0	131276.0	0.733209	Y
6	ICIS 480-682635/18	250.0	189.571594	25.0	124403.0	0.758286	Y
7	IC 480-682635/19	500.0	368.00945	25.0	121160.0	0.736019	Y
8	IC 480-682635/20	1000.0	703.59974	25.0	119460.0	0.7036	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

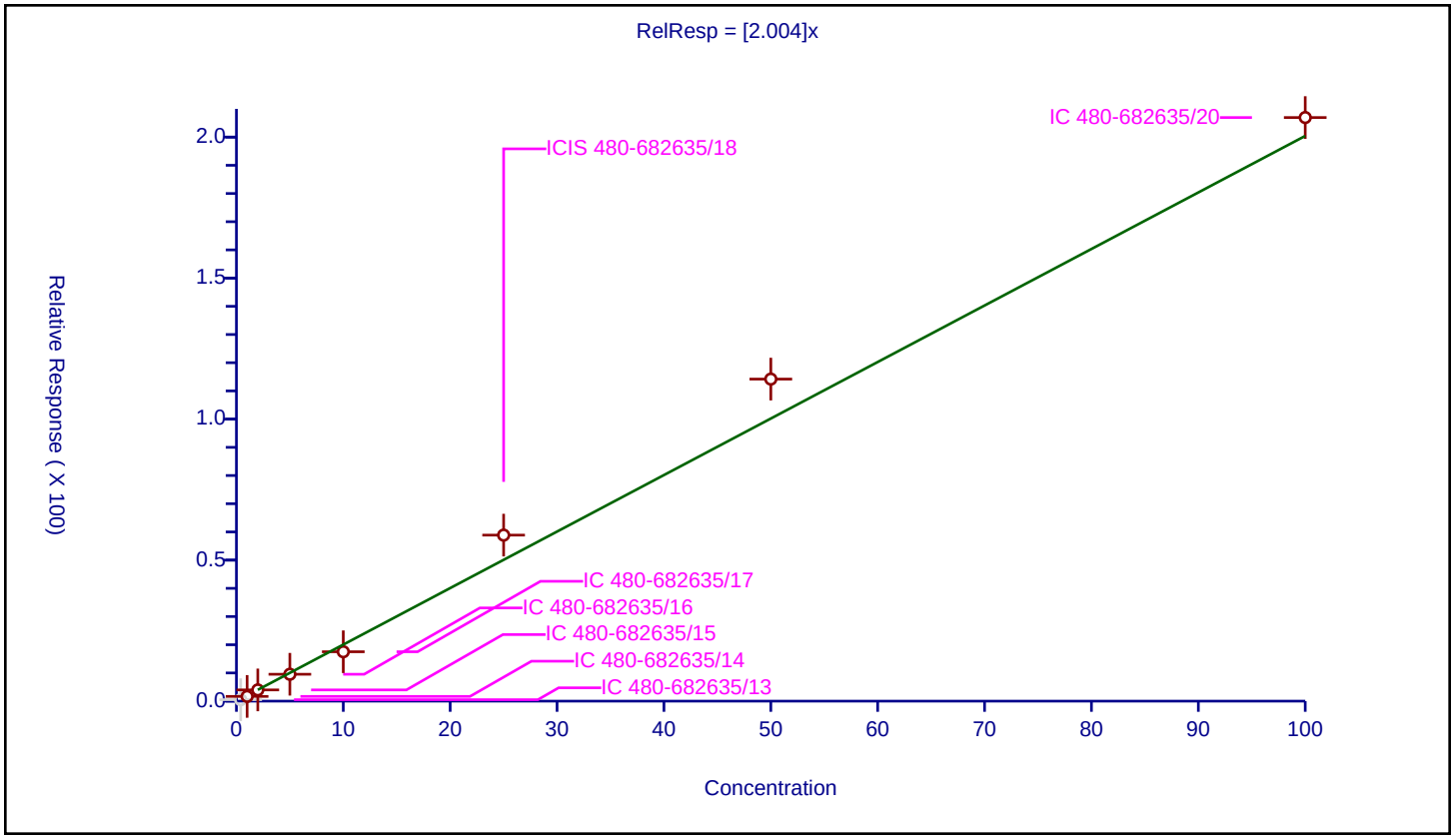
Curve Coefficients

Intercept:	0
Slope:	2.004

Error Coefficients

Standard Error:	480000
Relative Standard Error:	12.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.517949	25.0	131287.0	1.294873	N
2	IC 480-682635/14	1.0	1.672497	25.0	136936.0	1.672497	Y
3	IC 480-682635/15	2.0	3.979181	25.0	141411.0	1.989591	Y
4	IC 480-682635/16	5.0	9.534221	25.0	134012.0	1.906844	Y
5	IC 480-682635/17	10.0	17.515197	25.0	131276.0	1.75152	Y
6	ICIS 480-682635/18	25.0	58.868958	25.0	124403.0	2.354758	Y
7	IC 480-682635/19	50.0	114.194866	25.0	121160.0	2.283897	Y
8	IC 480-682635/20	100.0	206.934748	25.0	119460.0	2.069347	Y



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Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

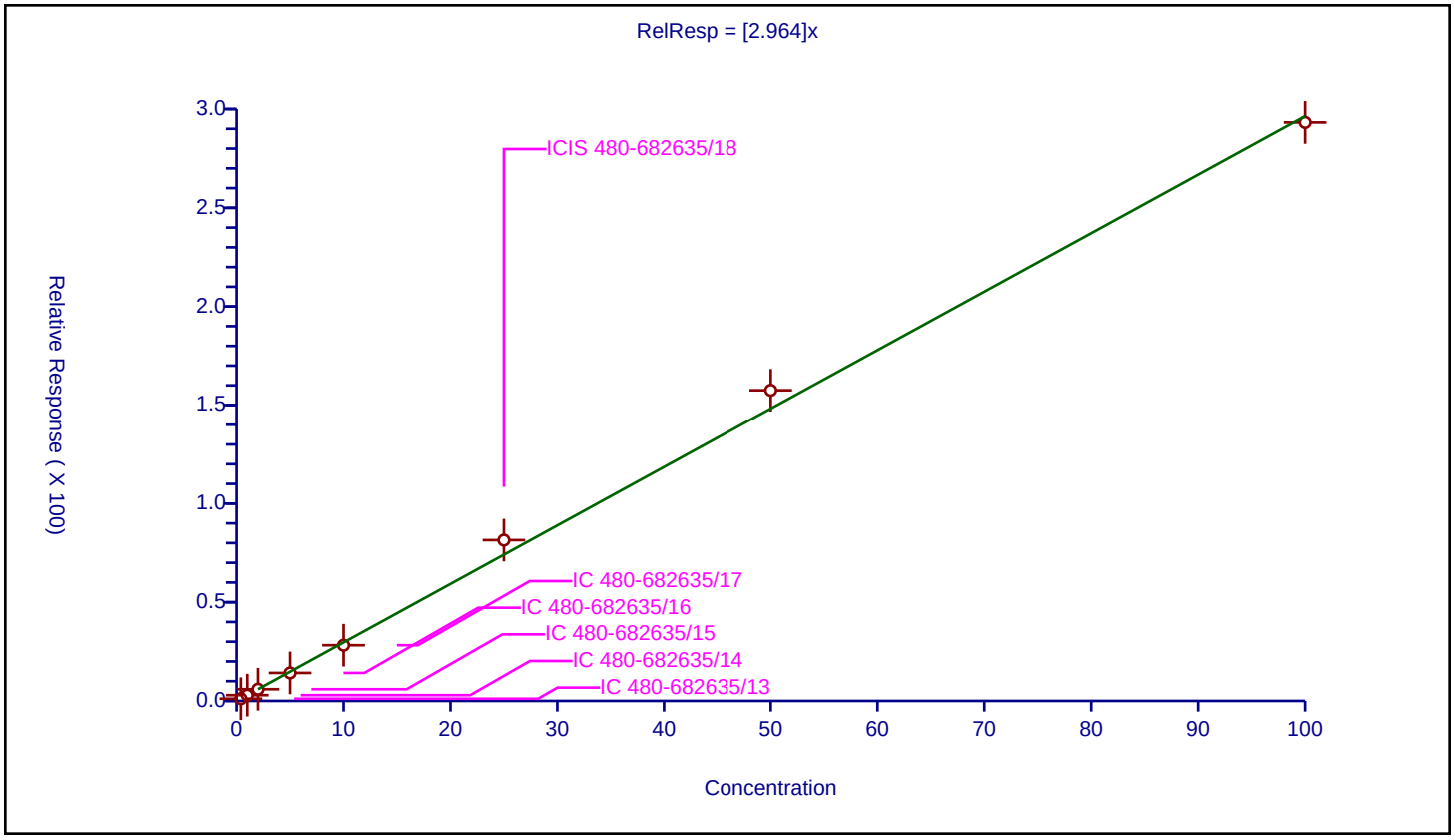
Curve Coefficients

Intercept:	0
Slope:	2.964

Error Coefficients

Standard Error:	625000
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.132824	25.0	131287.0	2.832059	Y
2	IC 480-682635/14	1.0	2.91523	25.0	136936.0	2.91523	Y
3	IC 480-682635/15	2.0	5.92758	25.0	141411.0	2.96379	Y
4	IC 480-682635/16	5.0	14.182872	25.0	134012.0	2.836574	Y
5	IC 480-682635/17	10.0	28.236121	25.0	131276.0	2.823612	Y
6	ICIS 480-682635/18	25.0	81.500848	25.0	124403.0	3.260034	Y
7	IC 480-682635/19	50.0	157.502889	25.0	121160.0	3.150058	Y
8	IC 480-682635/20	100.0	293.235811	25.0	119460.0	2.932358	Y



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Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

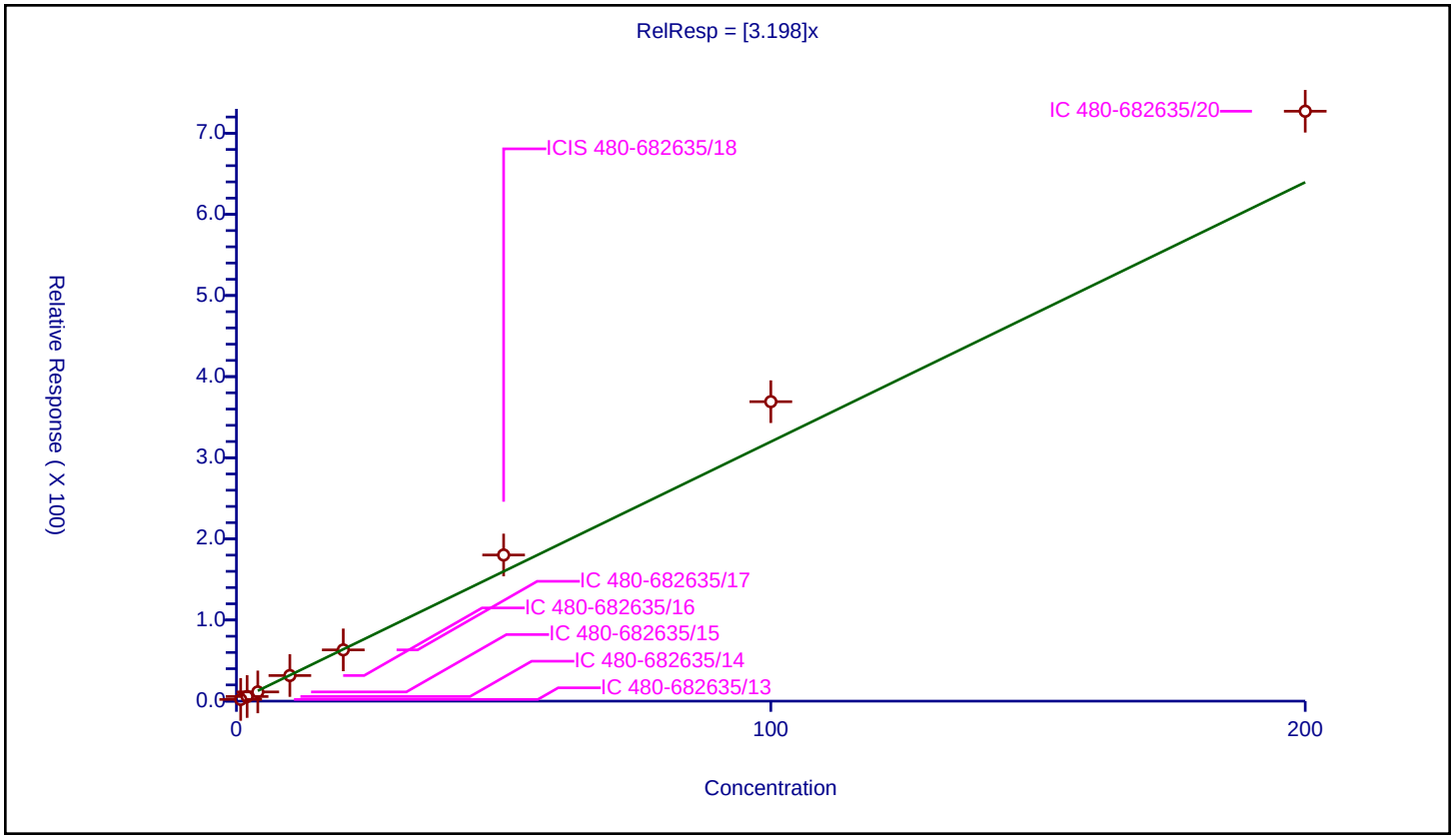
Curve Coefficients

Intercept:	0
Slope:	3.198

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	12.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.8	2.116737	25.0	131287.0	2.645921	Y
2	IC 480-682635/14	2.0	5.692988	25.0	136936.0	2.846494	Y
3	IC 480-682635/15	4.0	11.375176	25.0	141411.0	2.843794	Y
4	IC 480-682635/16	10.0	31.574784	25.0	134012.0	3.157478	Y
5	IC 480-682635/17	20.0	63.178913	25.0	131276.0	3.158946	Y
6	ICIS 480-682635/18	50.0	180.136934	25.0	124403.0	3.602739	Y
7	IC 480-682635/19	100.0	369.124917	25.0	121160.0	3.691249	Y
8	IC 480-682635/20	200.0	727.098401	25.0	119460.0	3.635492	Y



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Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

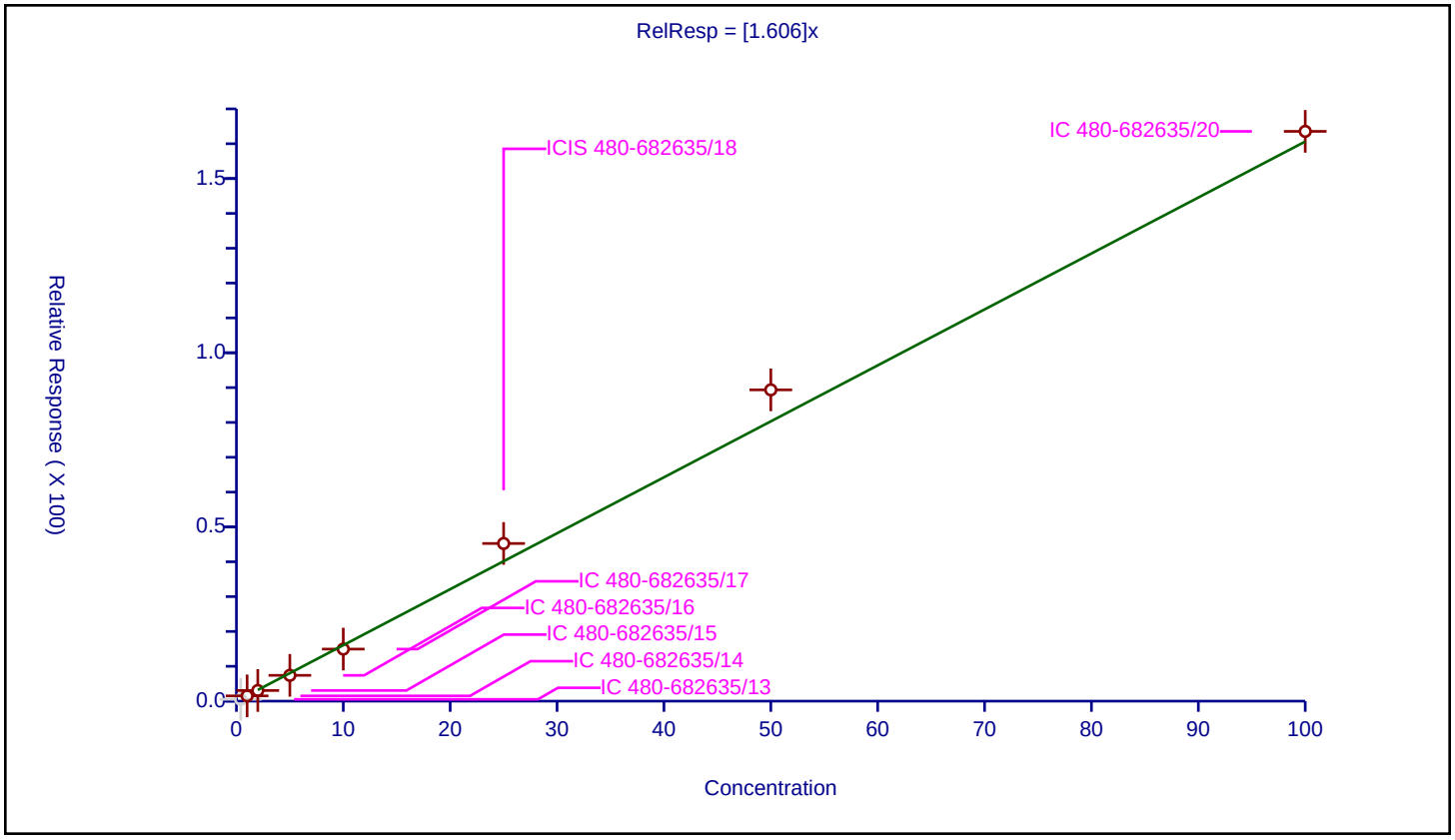
Curve Coefficients

Intercept:	0
Slope:	1.606

Error Coefficients

Standard Error:	378000
Relative Standard Error:	8.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.52709	25.0	131287.0	1.317724	N
2	IC 480-682635/14	1.0	1.507091	25.0	136936.0	1.507091	Y
3	IC 480-682635/15	2.0	3.05793	25.0	141411.0	1.528965	Y
4	IC 480-682635/16	5.0	7.403815	25.0	134012.0	1.480763	Y
5	IC 480-682635/17	10.0	14.939326	25.0	131276.0	1.493933	Y
6	ICIS 480-682635/18	25.0	45.256344	25.0	124403.0	1.810254	Y
7	IC 480-682635/19	50.0	89.350858	25.0	121160.0	1.787017	Y
8	IC 480-682635/20	100.0	163.543655	25.0	119460.0	1.635437	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

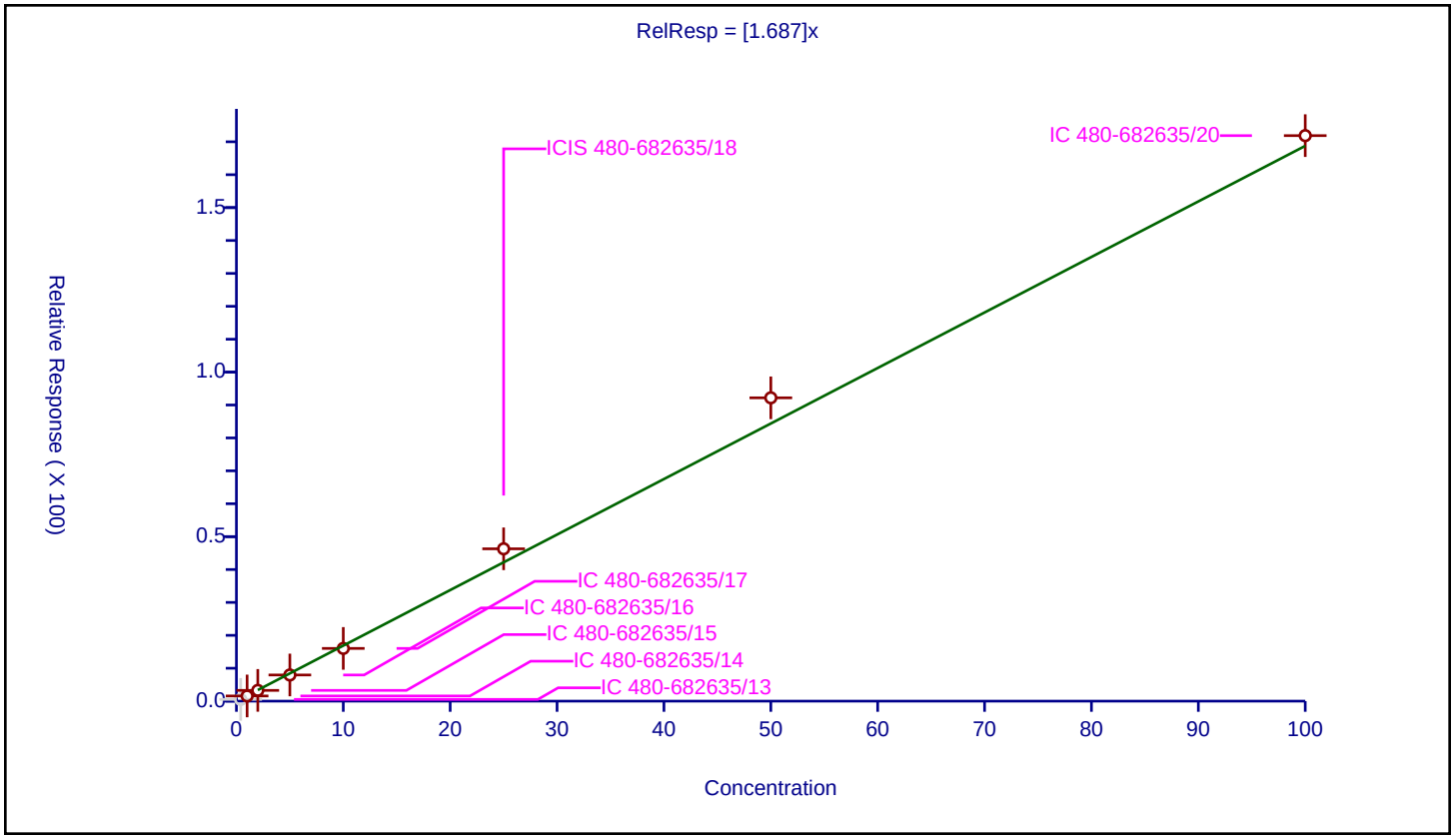
Curve Coefficients

Intercept:	0
Slope:	1.687

Error Coefficients

Standard Error:	395000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.52728	25.0	131287.0	1.3182	N
2	IC 480-682635/14	1.0	1.57172	25.0	136936.0	1.57172	Y
3	IC 480-682635/15	2.0	3.267073	25.0	141411.0	1.633536	Y
4	IC 480-682635/16	5.0	7.950407	25.0	134012.0	1.590081	Y
5	IC 480-682635/17	10.0	16.027301	25.0	131276.0	1.60273	Y
6	ICIS 480-682635/18	25.0	46.294302	25.0	124403.0	1.851772	Y
7	IC 480-682635/19	50.0	92.18781	25.0	121160.0	1.843756	Y
8	IC 480-682635/20	100.0	171.875732	25.0	119460.0	1.718757	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

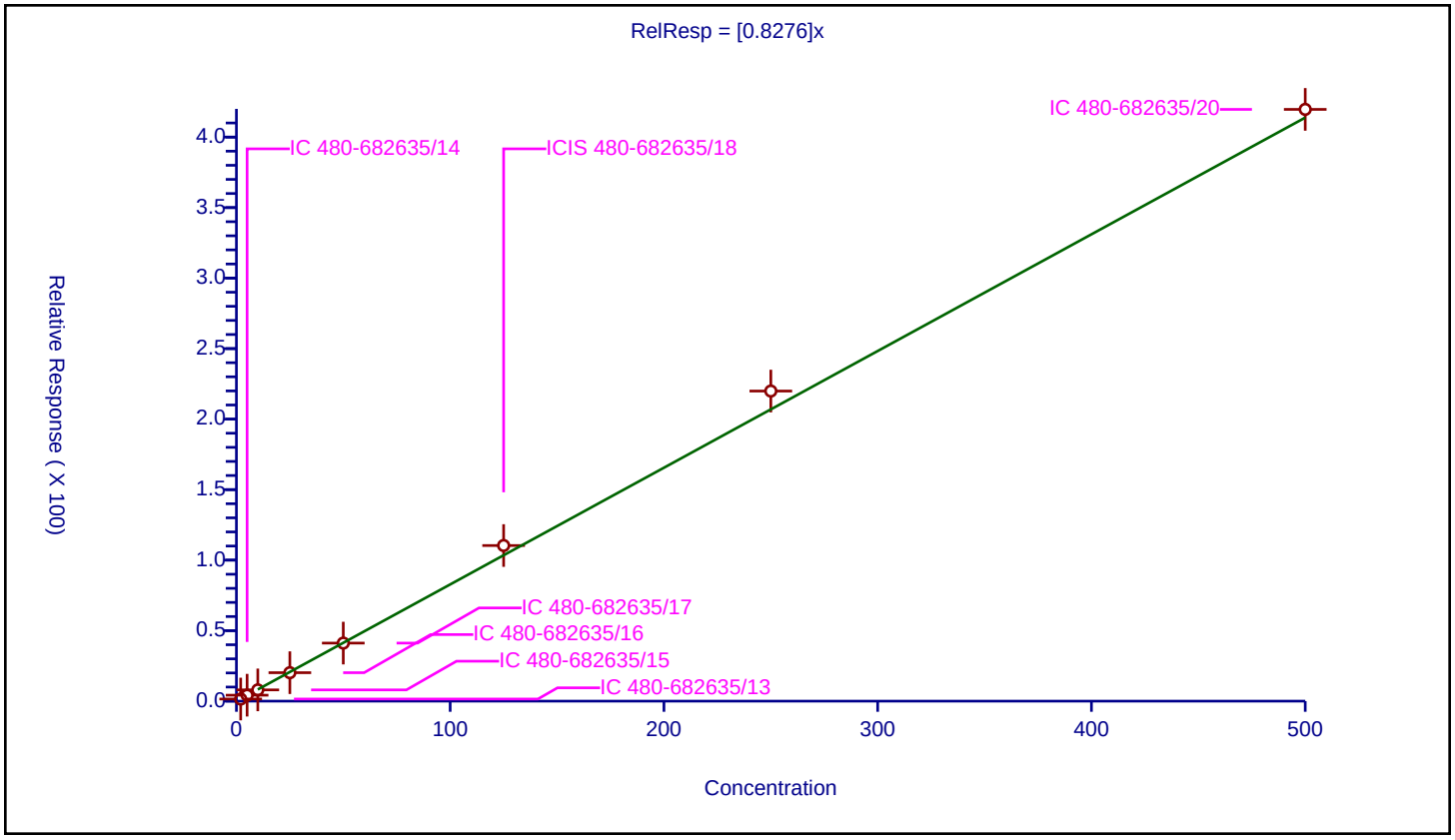
Curve Coefficients

Intercept:	0
Slope:	0.8276

Error Coefficients

Standard Error:	888000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	2.0	1.498054	25.0	131287.0	0.749027	Y
2	IC 480-682635/14	5.0	4.212187	25.0	136936.0	0.842437	Y
3	IC 480-682635/15	10.0	7.974274	25.0	141411.0	0.797427	Y
4	IC 480-682635/16	25.0	20.17935	25.0	134012.0	0.807174	Y
5	IC 480-682635/17	50.0	41.158132	25.0	131276.0	0.823163	Y
6	ICIS 480-682635/18	125.0	110.360683	25.0	124403.0	0.882885	Y
7	IC 480-682635/19	250.0	219.907973	25.0	121160.0	0.879632	Y
8	IC 480-682635/20	500.0	419.637745	25.0	119460.0	0.839275	Y



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Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

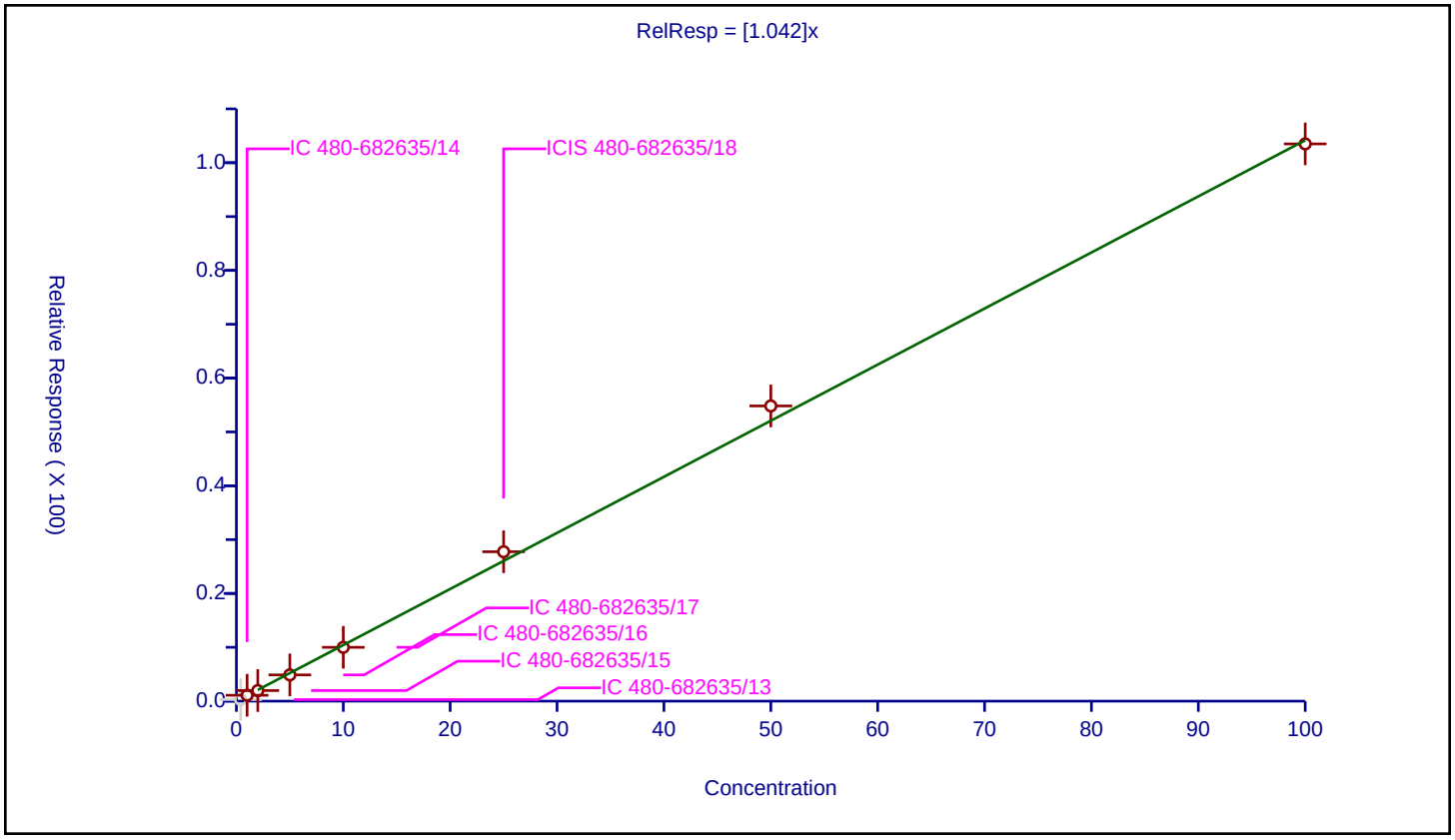
Curve Coefficients

Intercept:	0
Slope:	1.042

Error Coefficients

Standard Error:	237000
Relative Standard Error:	5.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.296488	25.0	131287.0	0.74122	N
2	IC 480-682635/14	1.0	1.092116	25.0	136936.0	1.092116	Y
3	IC 480-682635/15	2.0	1.966608	25.0	141411.0	0.983304	Y
4	IC 480-682635/16	5.0	4.876616	25.0	134012.0	0.975323	Y
5	IC 480-682635/17	10.0	9.994782	25.0	131276.0	0.999478	Y
6	ICIS 480-682635/18	25.0	27.747723	25.0	124403.0	1.109909	Y
7	IC 480-682635/19	50.0	54.83039	25.0	121160.0	1.096608	Y
8	IC 480-682635/20	100.0	103.494894	25.0	119460.0	1.034949	Y



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Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

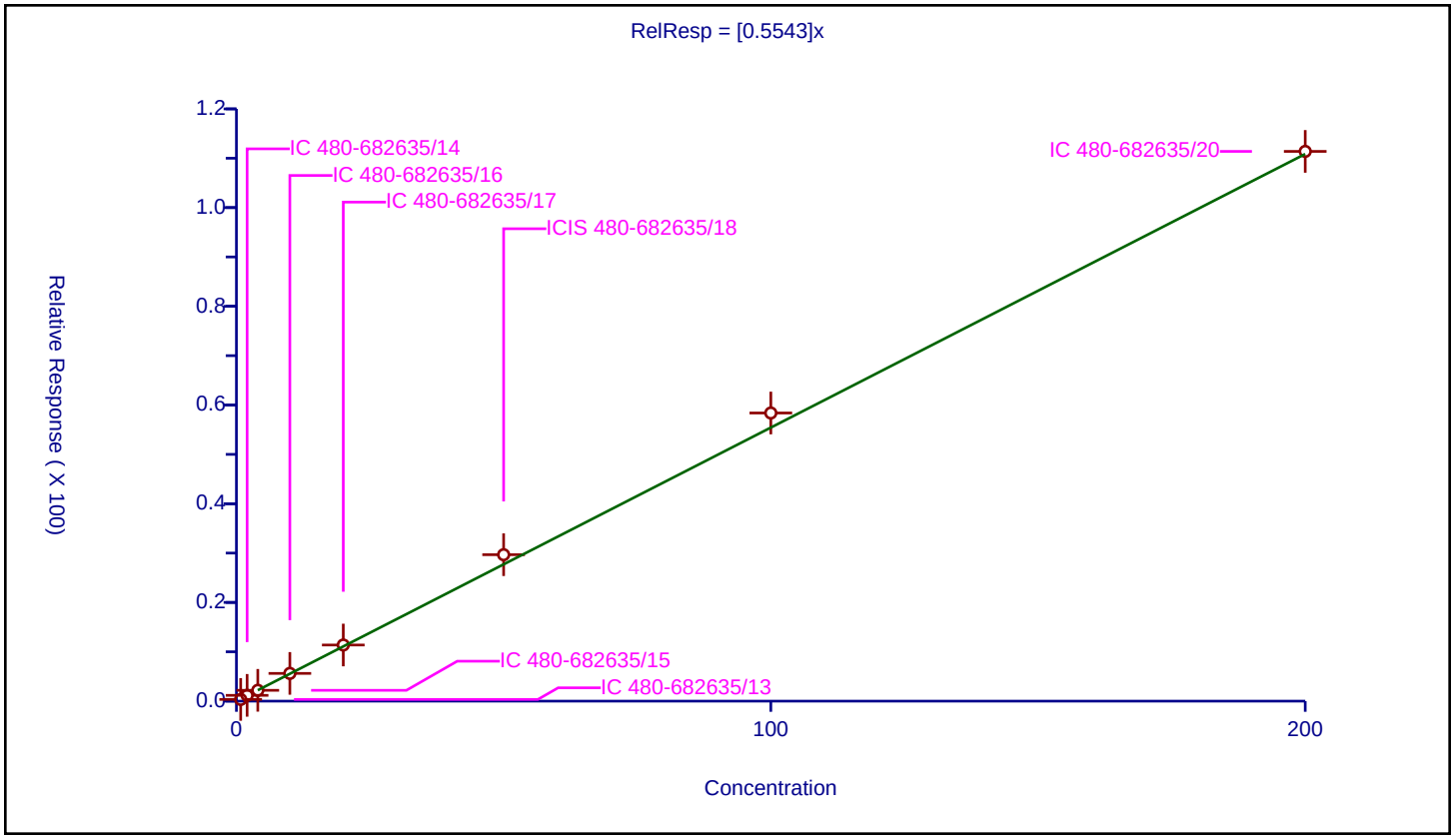
Curve Coefficients

Intercept:	0
Slope:	0.5543

Error Coefficients

Standard Error:	236000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.8	0.348664	25.0	131287.0	0.43583	Y
2	IC 480-682635/14	2.0	1.171168	25.0	136936.0	0.585584	Y
3	IC 480-682635/15	4.0	2.192015	25.0	141411.0	0.548004	Y
4	IC 480-682635/16	10.0	5.620579	25.0	134012.0	0.562058	Y
5	IC 480-682635/17	20.0	11.37489	25.0	131276.0	0.568744	Y
6	ICIS 480-682635/18	50.0	29.670104	25.0	124403.0	0.593402	Y
7	IC 480-682635/19	100.0	58.38478	25.0	121160.0	0.583848	Y
8	IC 480-682635/20	200.0	111.386029	25.0	119460.0	0.55693	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

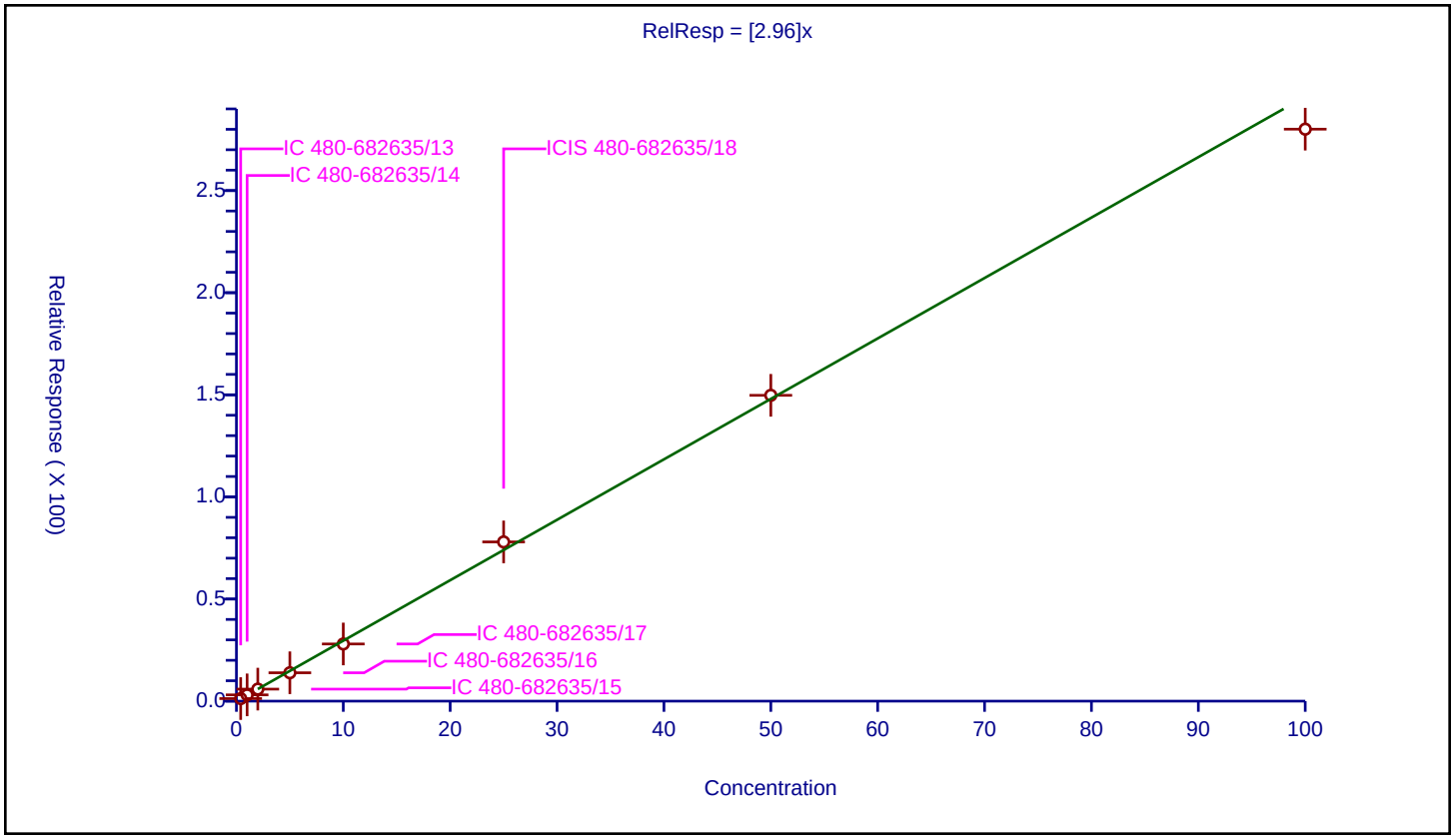
Curve Coefficients

Intercept:	0
Slope:	2.96

Error Coefficients

Standard Error:	597000
Relative Standard Error:	5.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.264405	25.0	131287.0	3.161014	Y
2	IC 480-682635/14	1.0	3.07735	25.0	136936.0	3.07735	Y
3	IC 480-682635/15	2.0	5.892752	25.0	141411.0	2.946376	Y
4	IC 480-682635/16	5.0	13.898196	25.0	134012.0	2.779639	Y
5	IC 480-682635/17	10.0	27.994645	25.0	131276.0	2.799464	Y
6	ICIS 480-682635/18	25.0	77.967372	25.0	124403.0	3.118695	Y
7	IC 480-682635/19	50.0	149.755489	25.0	121160.0	2.99511	Y
8	IC 480-682635/20	100.0	280.077432	25.0	119460.0	2.800774	Y



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Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

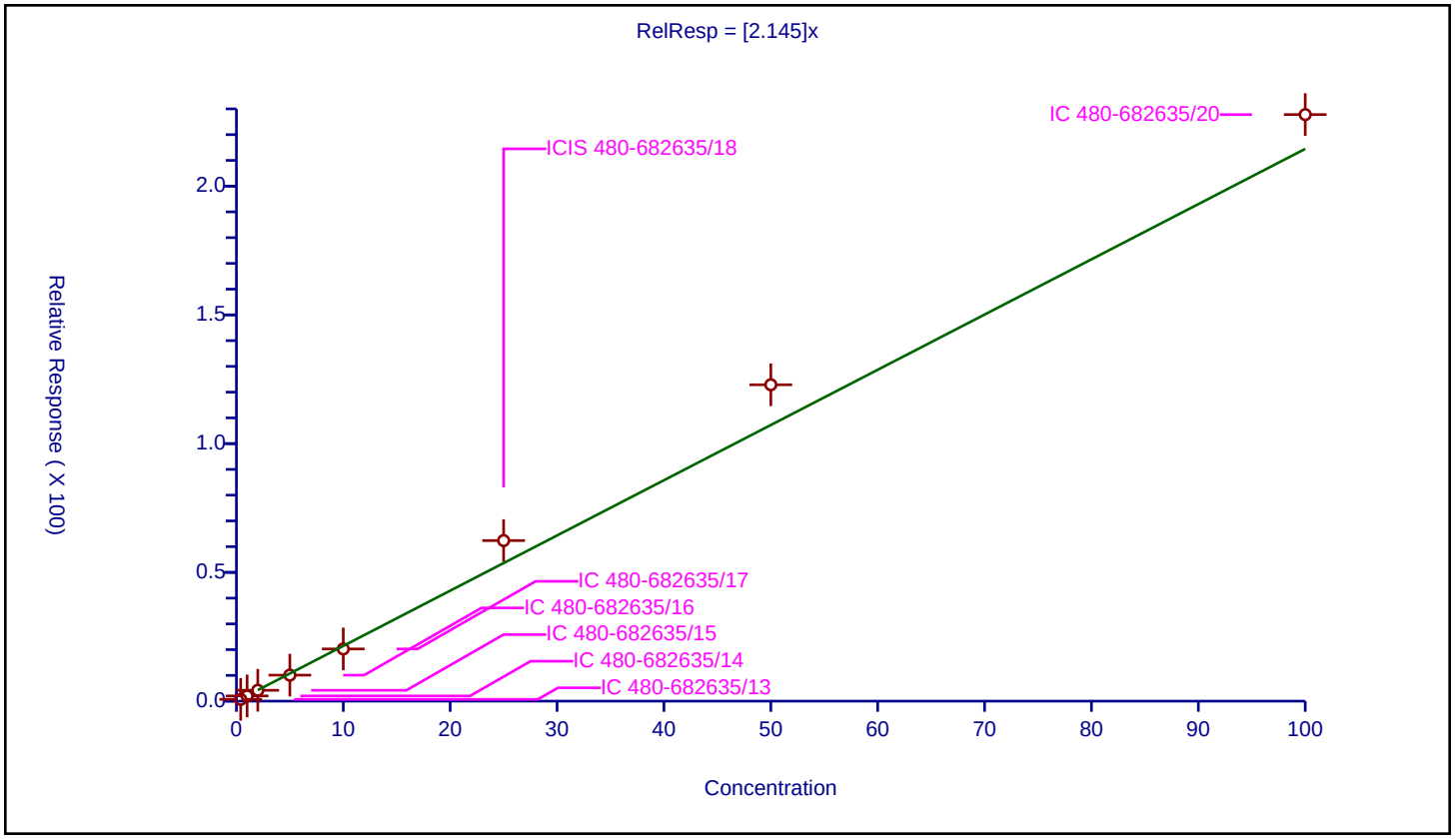
Curve Coefficients

Intercept:	0
Slope:	2.145

Error Coefficients

Standard Error:	485000
Relative Standard Error:	11.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.700374	25.0	131287.0	1.750935	Y
2	IC 480-682635/14	1.0	2.023025	25.0	136936.0	2.023025	Y
3	IC 480-682635/15	2.0	4.216079	25.0	141411.0	2.10804	Y
4	IC 480-682635/16	5.0	10.095365	25.0	134012.0	2.019073	Y
5	IC 480-682635/17	10.0	20.266081	25.0	131276.0	2.026608	Y
6	ICIS 480-682635/18	25.0	62.351792	25.0	124403.0	2.494072	Y
7	IC 480-682635/19	50.0	122.867902	25.0	121160.0	2.457358	Y
8	IC 480-682635/20	100.0	227.782731	25.0	119460.0	2.277827	Y



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Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

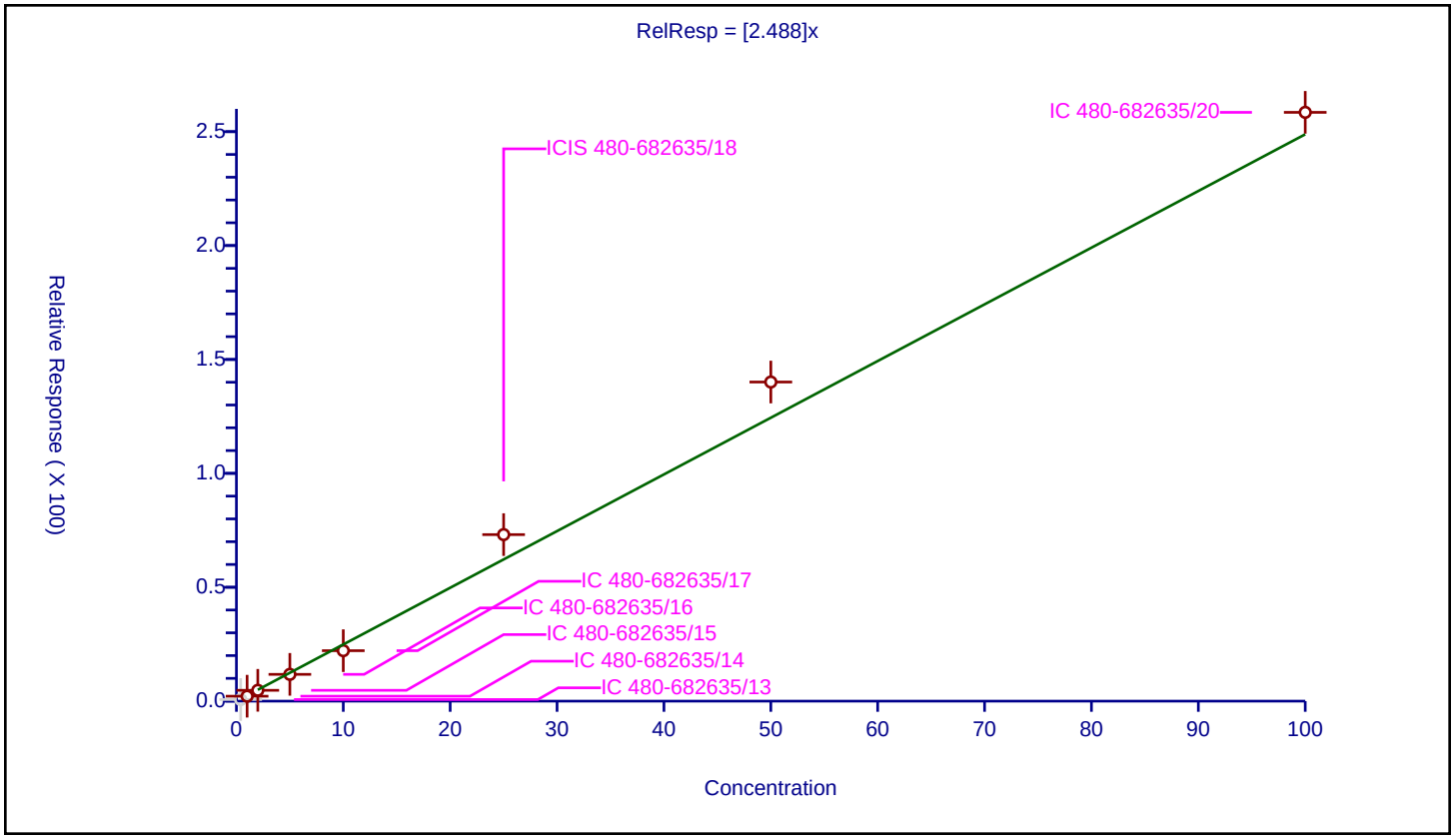
Curve Coefficients

Intercept:	0
Slope:	2.488

Error Coefficients

Standard Error:	597000
Relative Standard Error:	11.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.708753	25.0	131287.0	1.771881	N
2	IC 480-682635/14	1.0	2.166888	25.0	136936.0	2.166888	Y
3	IC 480-682635/15	2.0	4.748923	25.0	141411.0	2.374462	Y
4	IC 480-682635/16	5.0	11.752679	25.0	134012.0	2.350536	Y
5	IC 480-682635/17	10.0	22.154468	25.0	131276.0	2.215447	Y
6	ICIS 480-682635/18	25.0	73.111179	25.0	124403.0	2.924447	Y
7	IC 480-682635/19	50.0	140.097598	25.0	121160.0	2.801952	Y
8	IC 480-682635/20	100.0	258.480454	25.0	119460.0	2.584805	Y



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Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

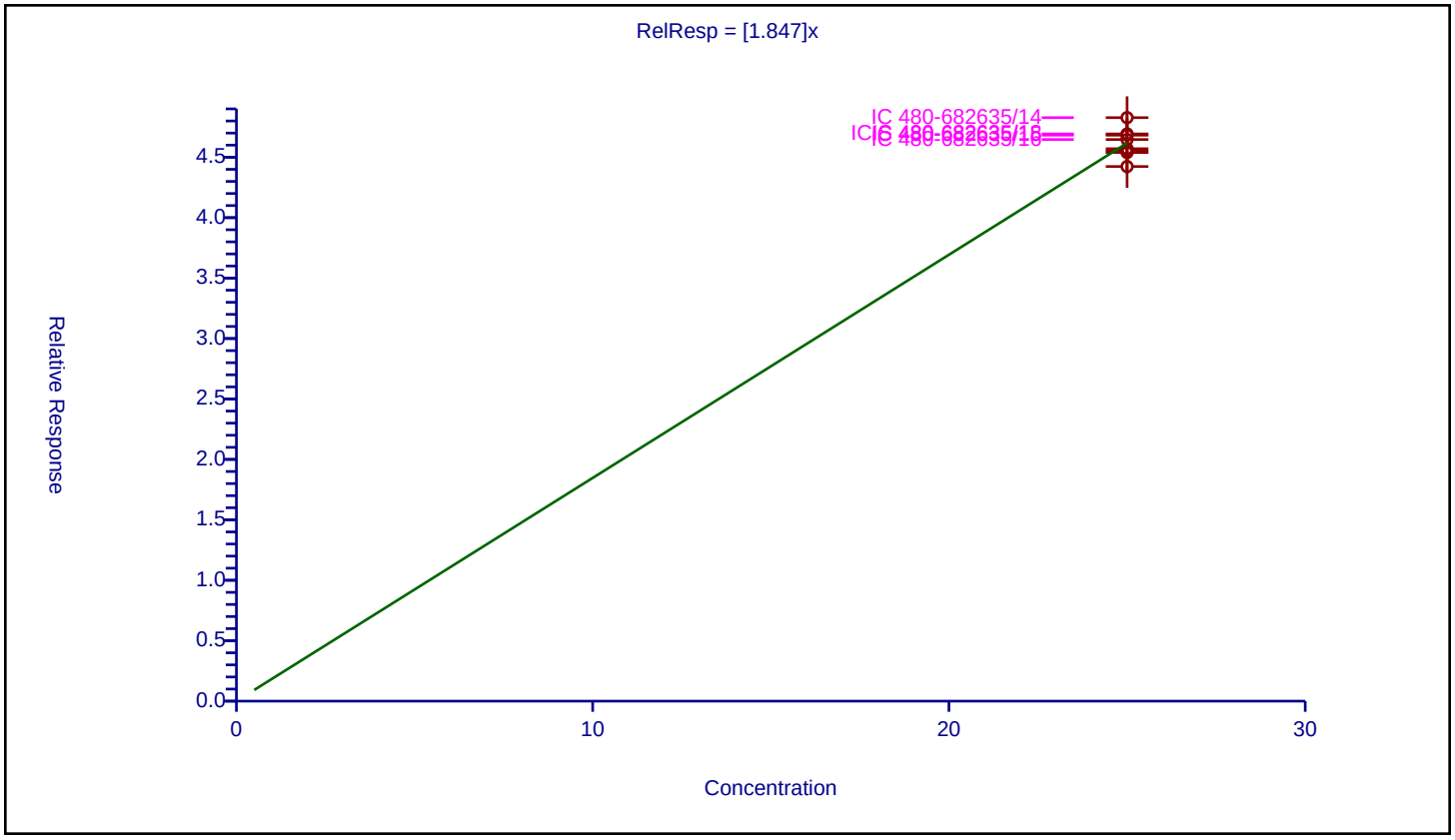
Curve Coefficients

Intercept:	0
Slope:	1.847

Error Coefficients

Standard Error:	258000
Relative Standard Error:	2.7
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	25.0	45.389109	25.0	131287.0	1.815564	Y
2	IC 480-682635/14	25.0	48.275472	25.0	136936.0	1.931019	Y
3	IC 480-682635/15	25.0	46.825035	25.0	141411.0	1.873001	Y
4	IC 480-682635/16	25.0	46.465988	25.0	134012.0	1.85864	Y
5	IC 480-682635/17	25.0	45.516507	25.0	131276.0	1.82066	Y
6	ICIS 480-682635/18	25.0	46.928531	25.0	124403.0	1.877141	Y
7	IC 480-682635/19	25.0	45.704234	25.0	121160.0	1.828169	Y
8	IC 480-682635/20	25.0	44.231542	25.0	119460.0	1.769262	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

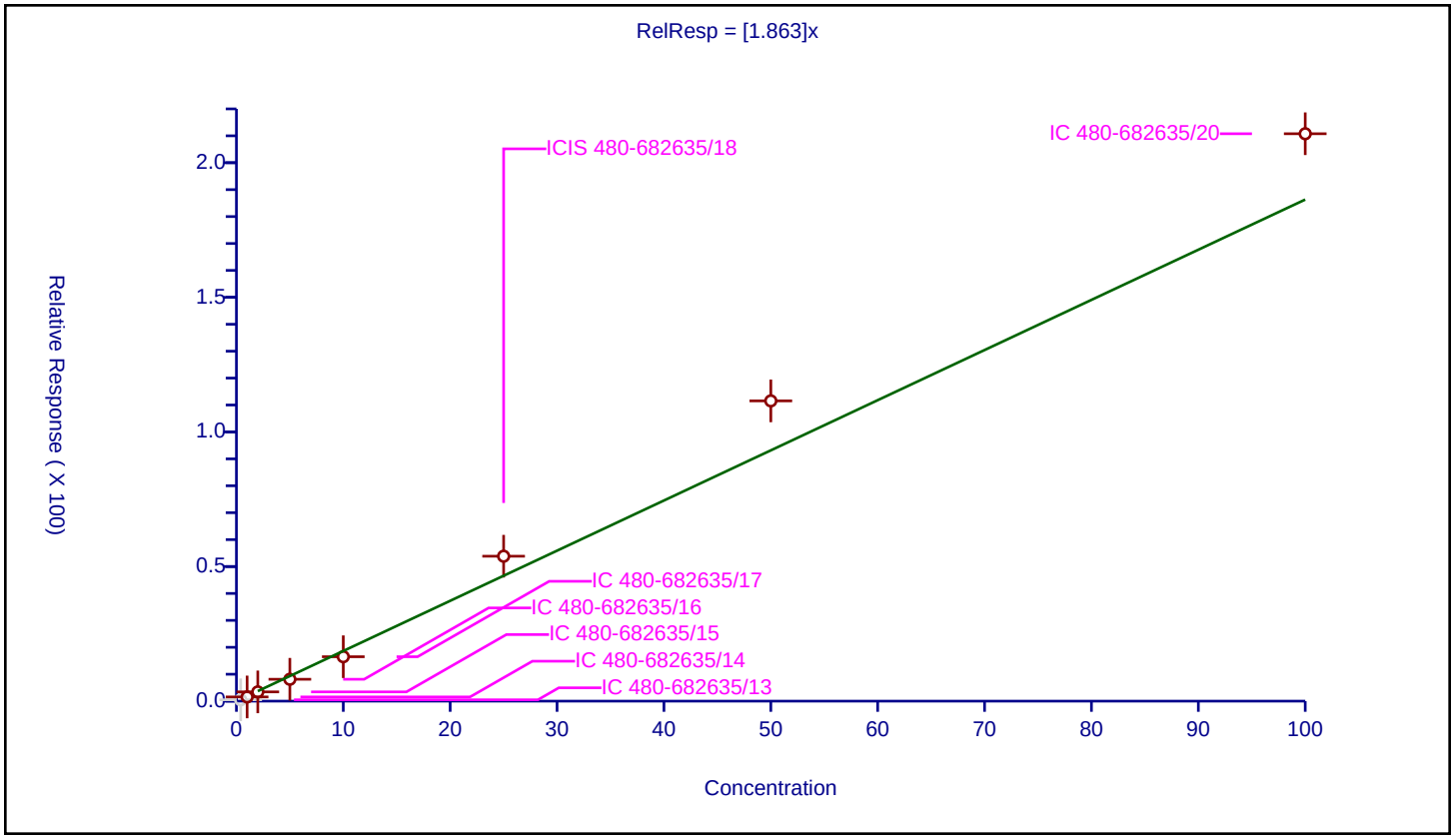
Curve Coefficients

Intercept:	0
Slope:	1.863

Error Coefficients

Standard Error:	481000
Relative Standard Error:	15.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.504239	25.0	131287.0	1.260597	N
2	IC 480-682635/14	1.0	1.558027	25.0	136936.0	1.558027	Y
3	IC 480-682635/15	2.0	3.43626	25.0	141411.0	1.71813	Y
4	IC 480-682635/16	5.0	8.124272	25.0	134012.0	1.624854	Y
5	IC 480-682635/17	10.0	16.494066	25.0	131276.0	1.649407	Y
6	ICIS 480-682635/18	25.0	53.834715	25.0	124403.0	2.153389	Y
7	IC 480-682635/19	50.0	111.533716	25.0	121160.0	2.230674	Y
8	IC 480-682635/20	100.0	210.766156	25.0	119460.0	2.107662	Y



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Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

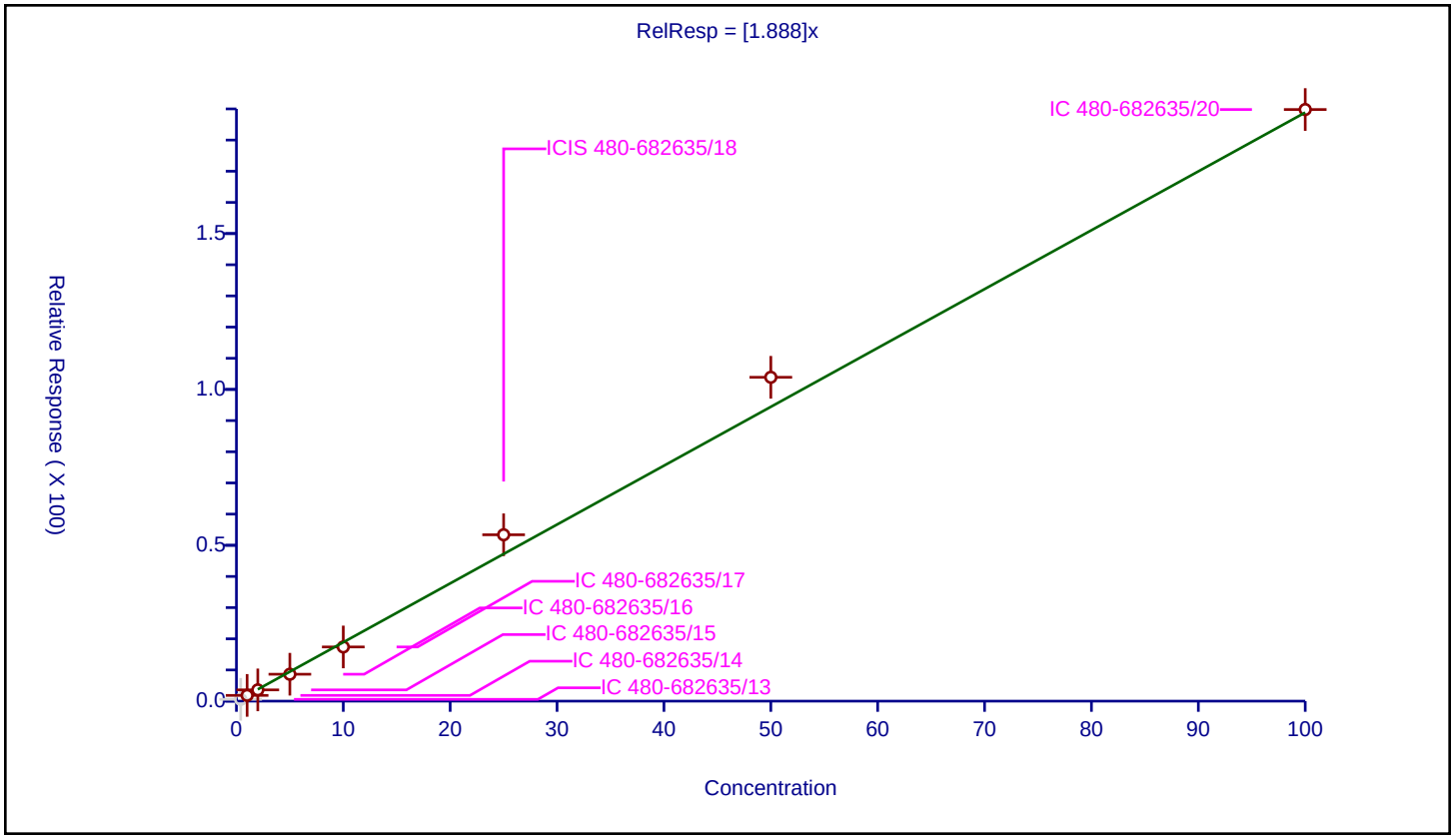
Curve Coefficients

Intercept:	0
Slope:	1.888

Error Coefficients

Standard Error:	439000
Relative Standard Error:	8.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.576028	25.0	131287.0	1.44007	N
2	IC 480-682635/14	1.0	1.838998	25.0	136936.0	1.838998	Y
3	IC 480-682635/15	2.0	3.608807	25.0	141411.0	1.804403	Y
4	IC 480-682635/16	5.0	8.630943	25.0	134012.0	1.726189	Y
5	IC 480-682635/17	10.0	17.381128	25.0	131276.0	1.738113	Y
6	ICIS 480-682635/18	25.0	53.373311	25.0	124403.0	2.134932	Y
7	IC 480-682635/19	50.0	103.89485	25.0	121160.0	2.077897	Y
8	IC 480-682635/20	100.0	189.794492	25.0	119460.0	1.897945	Y



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Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

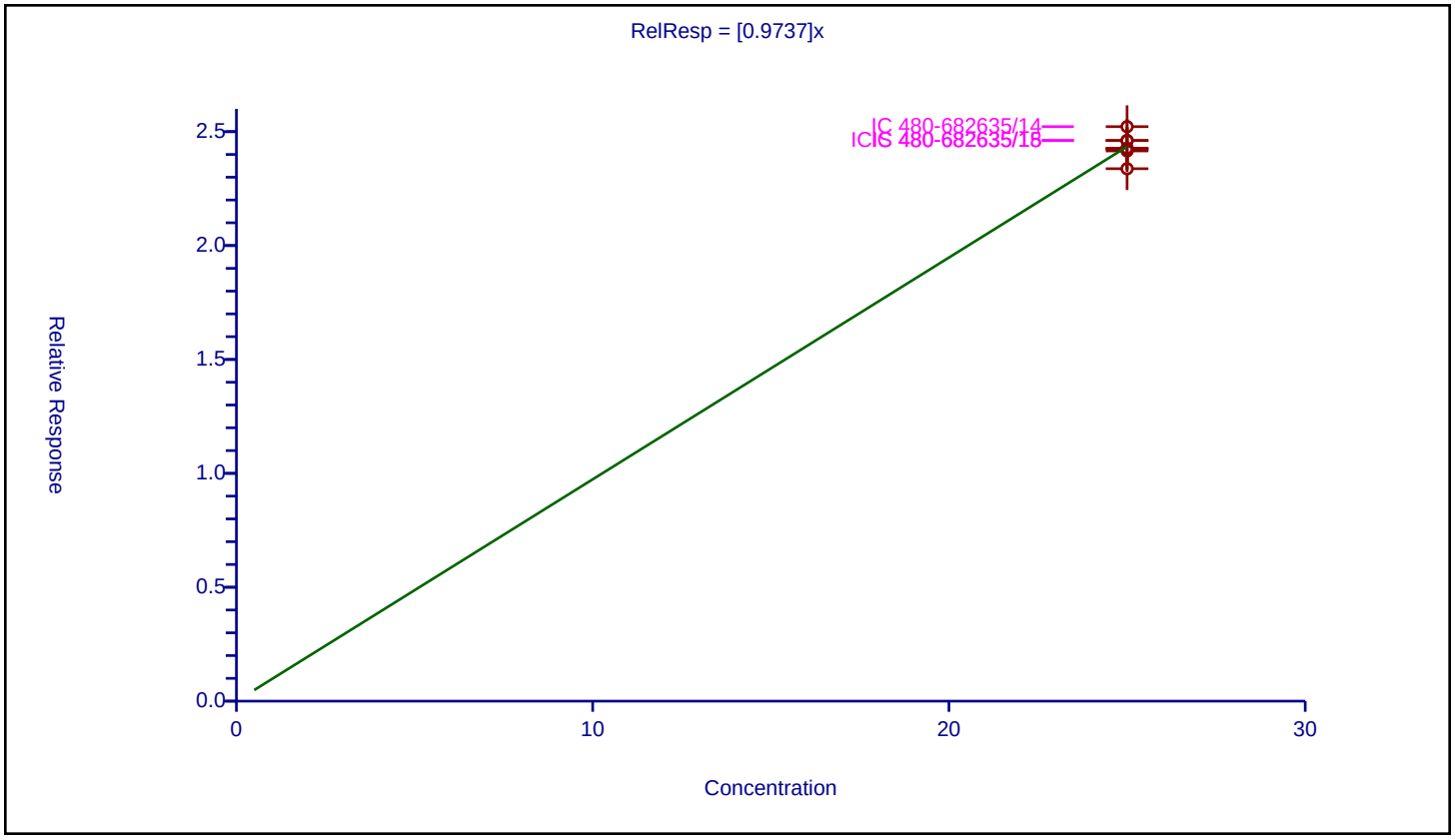
Curve Coefficients

Intercept:	0
Slope:	0.9737

Error Coefficients

Standard Error:	136000
Relative Standard Error:	2.1
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	25.0	24.251068	25.0	131287.0	0.970043	Y
2	IC 480-682635/14	25.0	25.220358	25.0	136936.0	1.008814	Y
3	IC 480-682635/15	25.0	24.613361	25.0	141411.0	0.984534	Y
4	IC 480-682635/16	25.0	24.244657	25.0	134012.0	0.969786	Y
5	IC 480-682635/17	25.0	24.270049	25.0	131276.0	0.970802	Y
6	ICIS 480-682635/18	25.0	24.607927	25.0	124403.0	0.984317	Y
7	IC 480-682635/19	25.0	24.154424	25.0	121160.0	0.966177	Y
8	IC 480-682635/20	25.0	23.373933	25.0	119460.0	0.934957	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

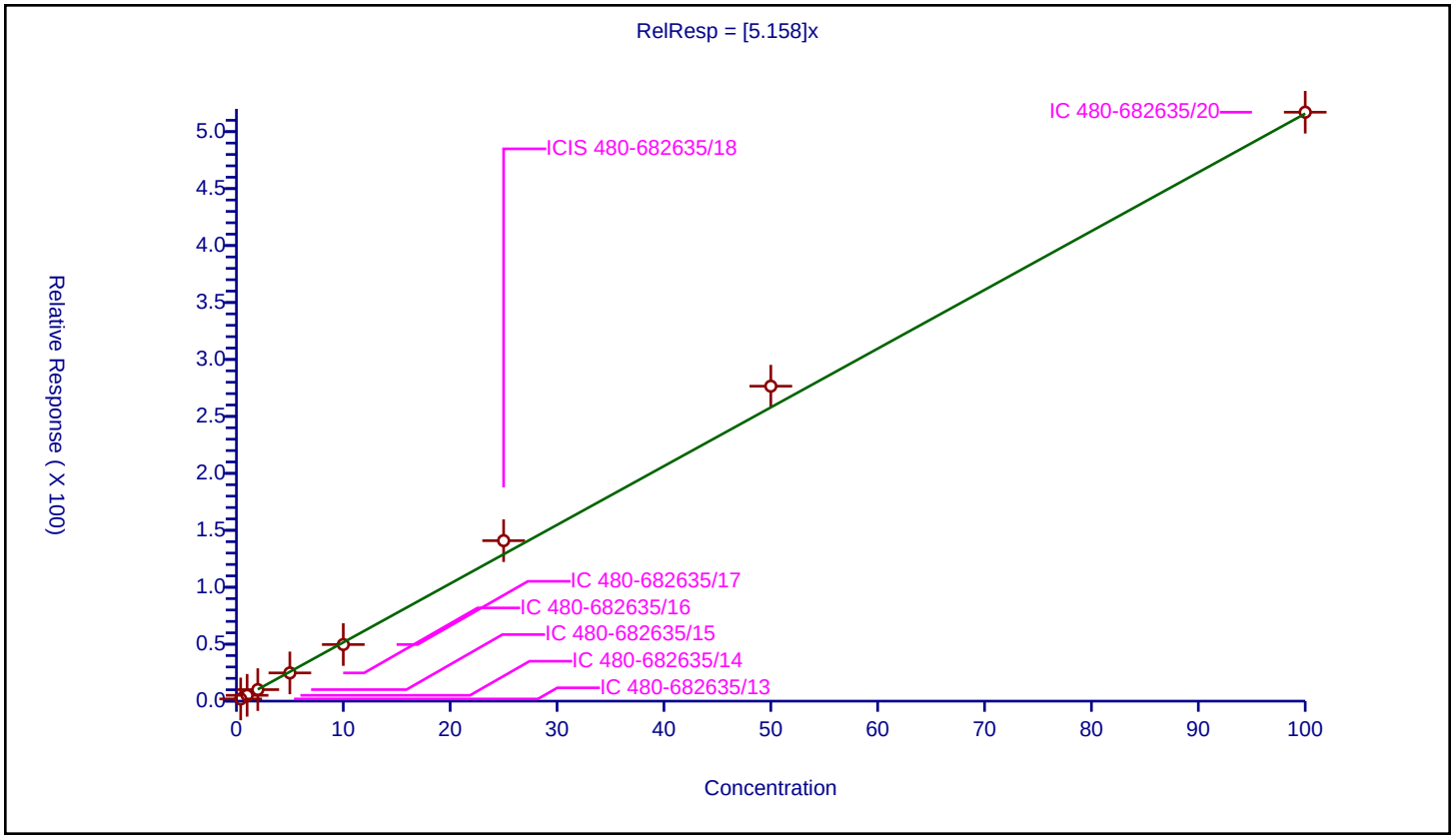
Curve Coefficients

Intercept:	0
Slope:	5.158

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	5.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.936026	25.0	131287.0	4.840064	Y
2	IC 480-682635/14	1.0	5.101653	25.0	136936.0	5.101653	Y
3	IC 480-682635/15	2.0	10.1205	25.0	141411.0	5.06025	Y
4	IC 480-682635/16	5.0	24.784161	25.0	134012.0	4.956832	Y
5	IC 480-682635/17	10.0	49.693204	25.0	131276.0	4.96932	Y
6	ICIS 480-682635/18	25.0	140.913804	25.0	124403.0	5.636552	Y
7	IC 480-682635/19	50.0	276.548159	25.0	121160.0	5.530963	Y
8	IC 480-682635/20	100.0	517.094425	25.0	119460.0	5.170944	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

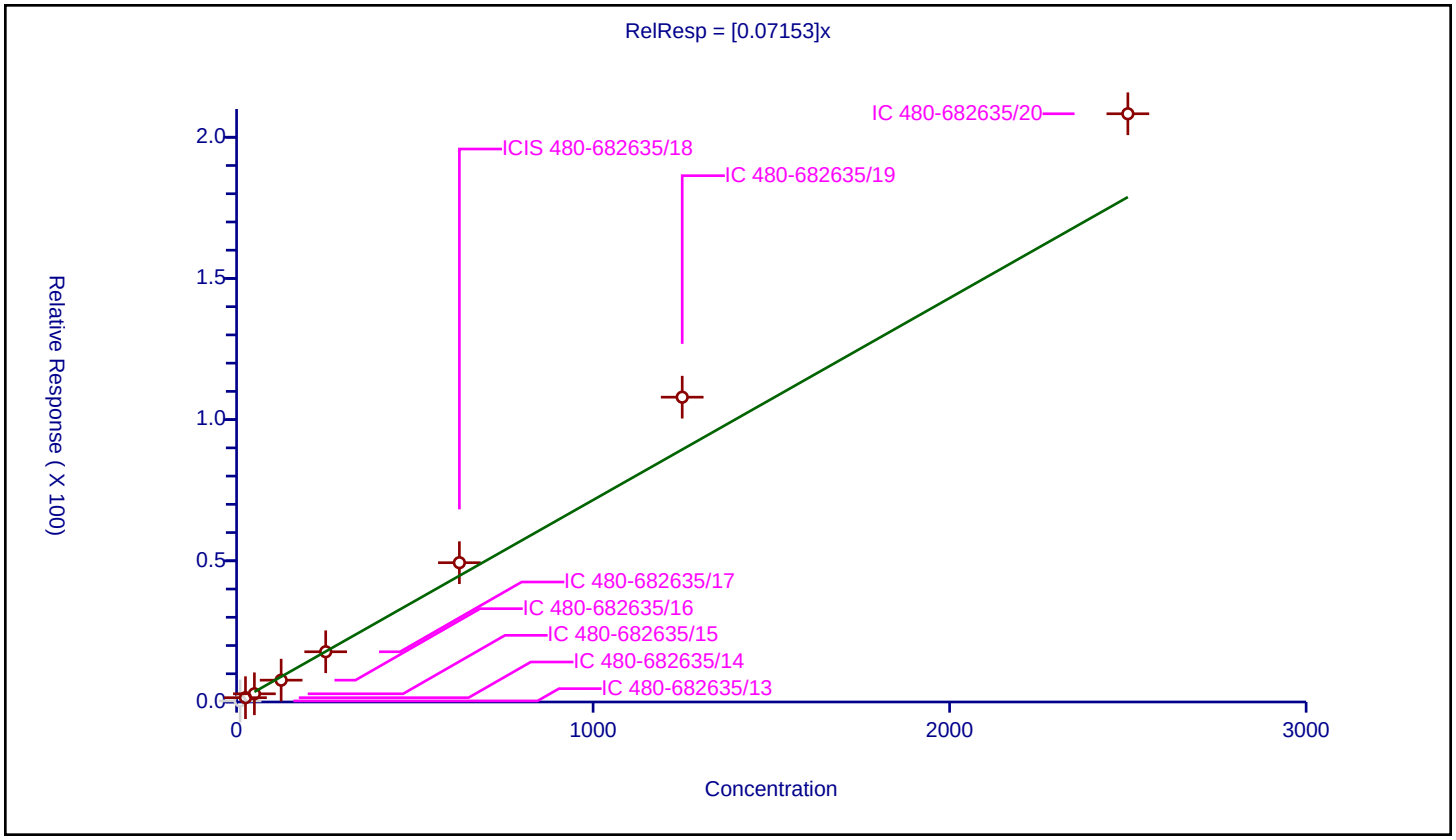
Curve Coefficients

Intercept:	0
Slope:	0.07153

Error Coefficients

Standard Error:	472000
Relative Standard Error:	16.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	10.0	0.377798	25.0	131287.0	0.03778	N
2	IC 480-682635/14	25.0	1.522792	25.0	136936.0	0.060912	Y
3	IC 480-682635/15	50.0	2.906598	25.0	141411.0	0.058132	Y
4	IC 480-682635/16	125.0	7.734195	25.0	134012.0	0.061874	Y
5	IC 480-682635/17	250.0	17.787714	25.0	131276.0	0.071151	Y
6	ICIS 480-682635/18	625.0	49.332412	25.0	124403.0	0.078932	Y
7	IC 480-682635/19	1250.0	107.946104	25.0	121160.0	0.086357	Y
8	IC 480-682635/20	2500.0	208.322032	25.0	119460.0	0.083329	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

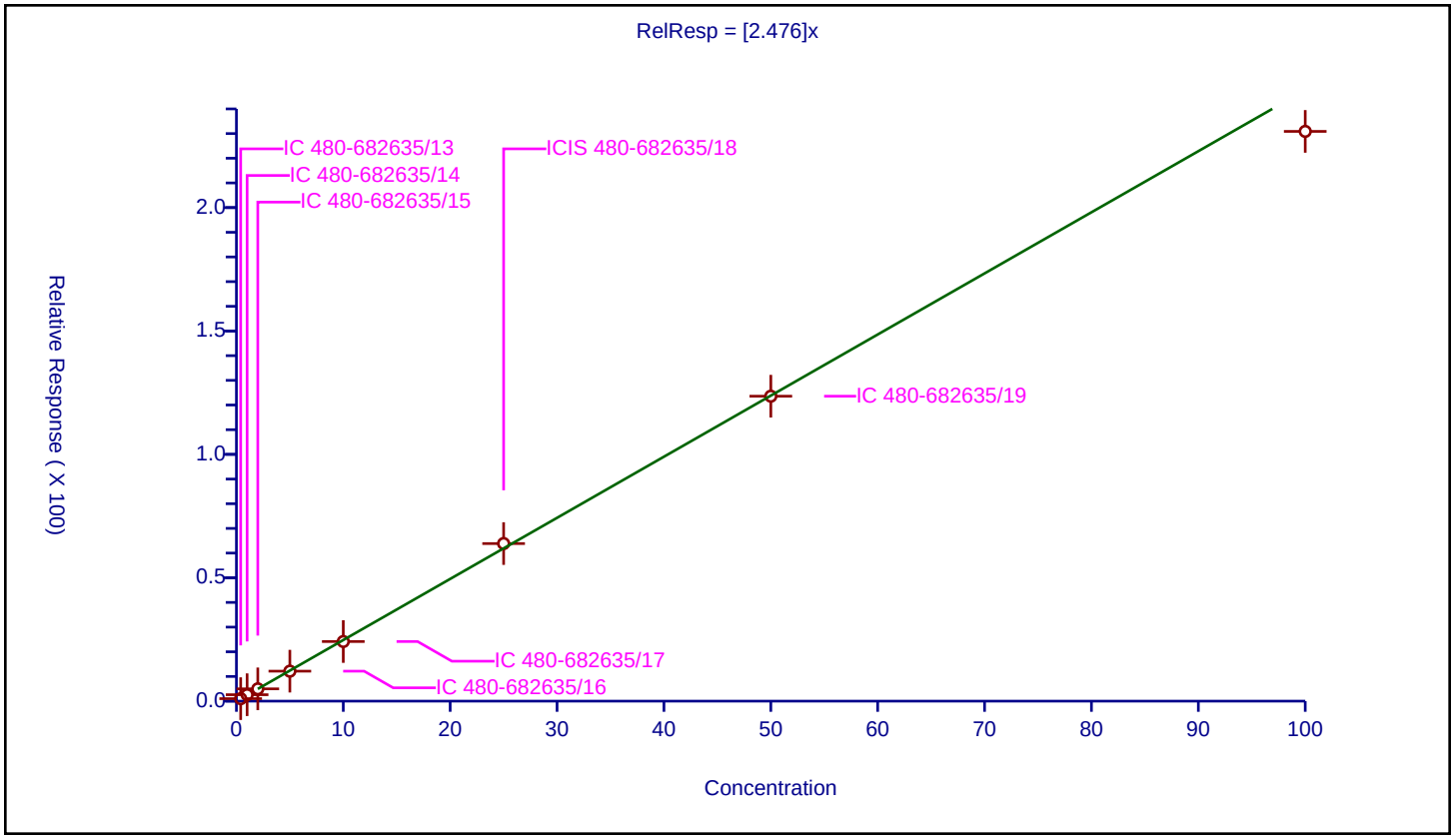
Curve Coefficients

Intercept:	0
Slope:	2.476

Error Coefficients

Standard Error:	492000
Relative Standard Error:	3.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.011144	25.0	131287.0	2.527859	Y
2	IC 480-682635/14	1.0	2.610161	25.0	136936.0	2.610161	Y
3	IC 480-682635/15	2.0	4.983877	25.0	141411.0	2.491938	Y
4	IC 480-682635/16	5.0	12.14742	25.0	134012.0	2.429484	Y
5	IC 480-682635/17	10.0	24.155405	25.0	131276.0	2.415541	Y
6	ICIS 480-682635/18	25.0	63.860799	25.0	124403.0	2.554432	Y
7	IC 480-682635/19	50.0	123.572549	25.0	121160.0	2.471451	Y
8	IC 480-682635/20	100.0	230.883978	25.0	119460.0	2.30884	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

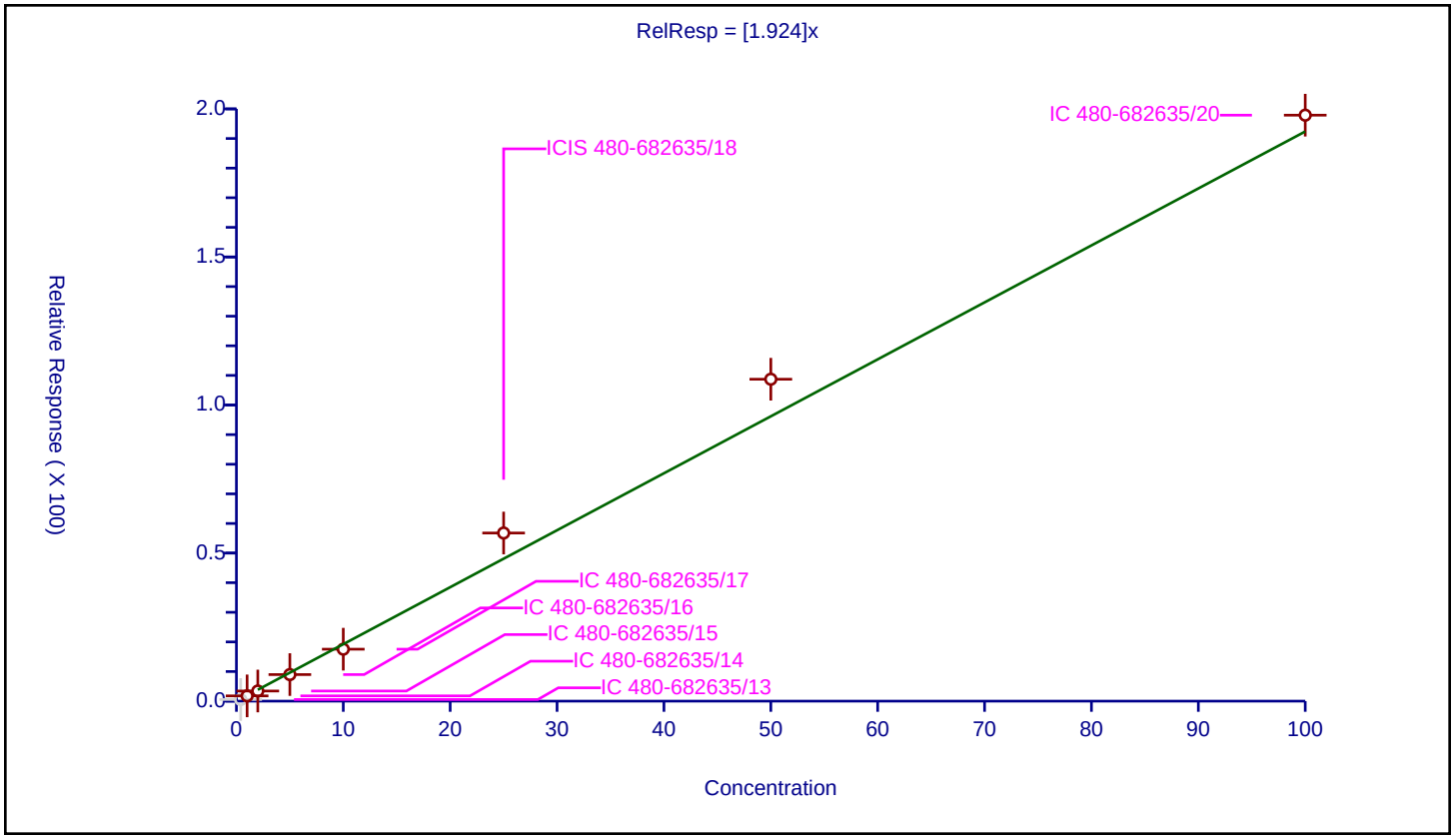
Curve Coefficients

Intercept:	0
Slope:	1.924

Error Coefficients

Standard Error:	459000
Relative Standard Error:	11.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.557176	25.0	131287.0	1.392941	N
2	IC 480-682635/14	1.0	1.780759	25.0	136936.0	1.780759	Y
3	IC 480-682635/15	2.0	3.425299	25.0	141411.0	1.71265	Y
4	IC 480-682635/16	5.0	8.9686	25.0	134012.0	1.79372	Y
5	IC 480-682635/17	10.0	17.543953	25.0	131276.0	1.754395	Y
6	ICIS 480-682635/18	25.0	56.775158	25.0	124403.0	2.271006	Y
7	IC 480-682635/19	50.0	108.708939	25.0	121160.0	2.174179	Y
8	IC 480-682635/20	100.0	197.878997	25.0	119460.0	1.97879	Y



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Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

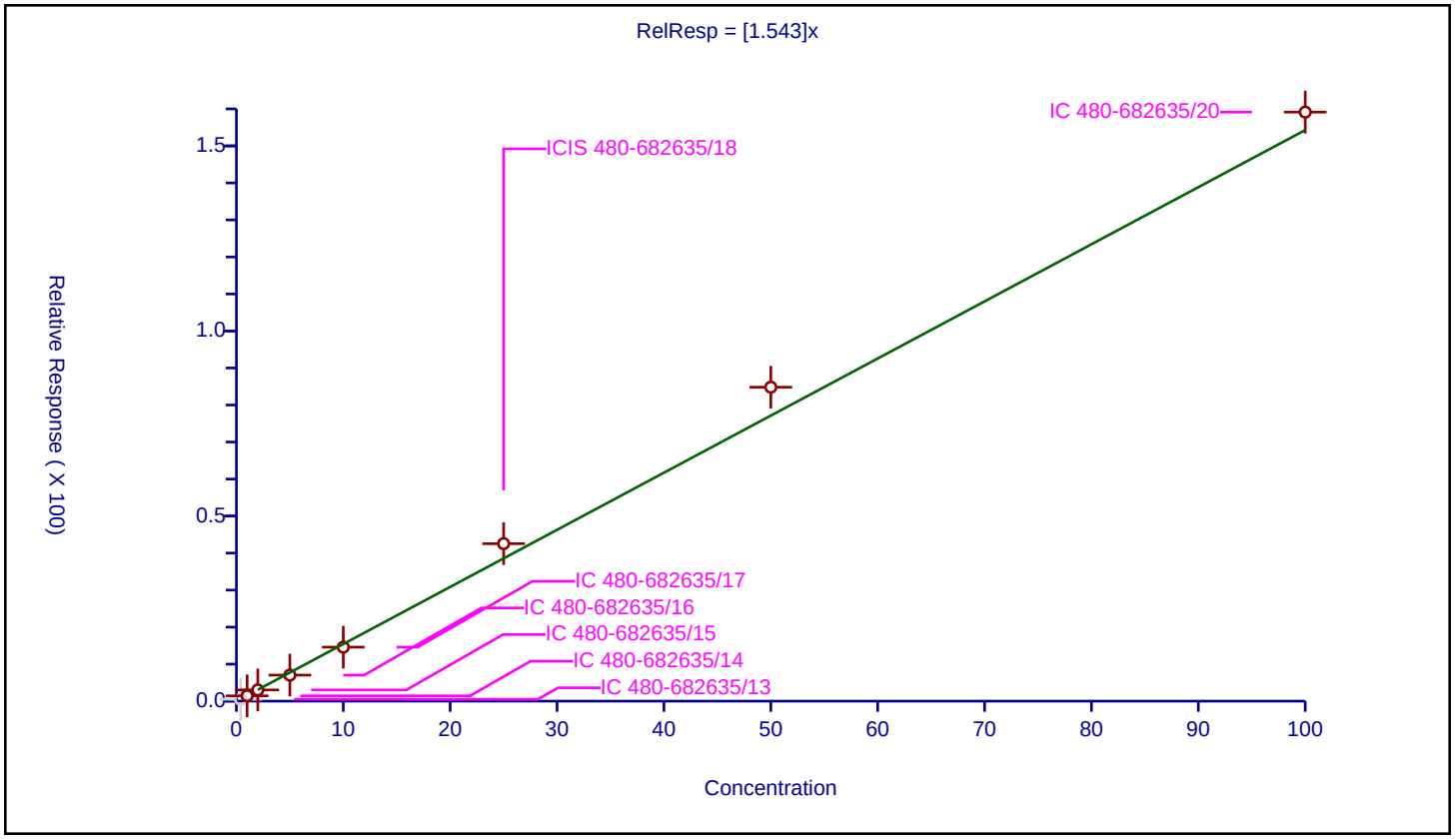
Curve Coefficients

Intercept:	0
Slope:	1.543

Error Coefficients

Standard Error:	365000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.503668	25.0	131287.0	1.259169	N
2	IC 480-682635/14	1.0	1.43023	25.0	136936.0	1.43023	Y
3	IC 480-682635/15	2.0	3.026815	25.0	141411.0	1.513408	Y
4	IC 480-682635/16	5.0	7.03687	25.0	134012.0	1.407374	Y
5	IC 480-682635/17	10.0	14.588158	25.0	131276.0	1.458816	Y
6	ICIS 480-682635/18	25.0	42.542181	25.0	124403.0	1.701687	Y
7	IC 480-682635/19	50.0	84.817597	25.0	121160.0	1.696352	Y
8	IC 480-682635/20	100.0	159.132136	25.0	119460.0	1.591321	Y



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Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

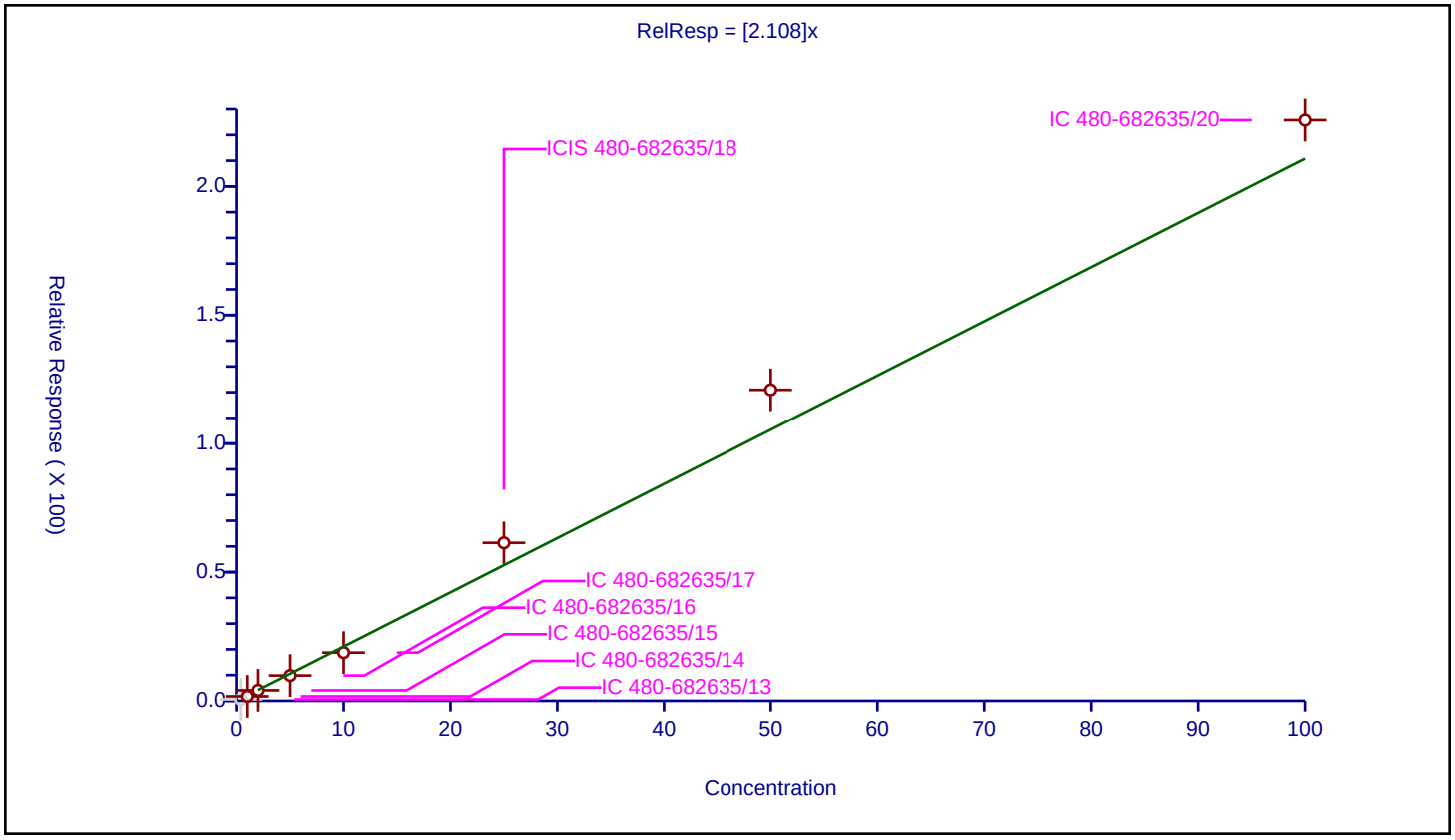
Curve Coefficients

Intercept:	0
Slope:	2.108

Error Coefficients

Standard Error:	519000
Relative Standard Error:	13.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.568982	25.0	131287.0	1.422456	N
2	IC 480-682635/14	1.0	1.739864	25.0	136936.0	1.739864	Y
3	IC 480-682635/15	2.0	4.087377	25.0	141411.0	2.043688	Y
4	IC 480-682635/16	5.0	9.832515	25.0	134012.0	1.966503	Y
5	IC 480-682635/17	10.0	18.733622	25.0	131276.0	1.873362	Y
6	ICIS 480-682635/18	25.0	61.397434	25.0	124403.0	2.455897	Y
7	IC 480-682635/19	50.0	120.933476	25.0	121160.0	2.41867	Y
8	IC 480-682635/20	100.0	225.760506	25.0	119460.0	2.257605	Y



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Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

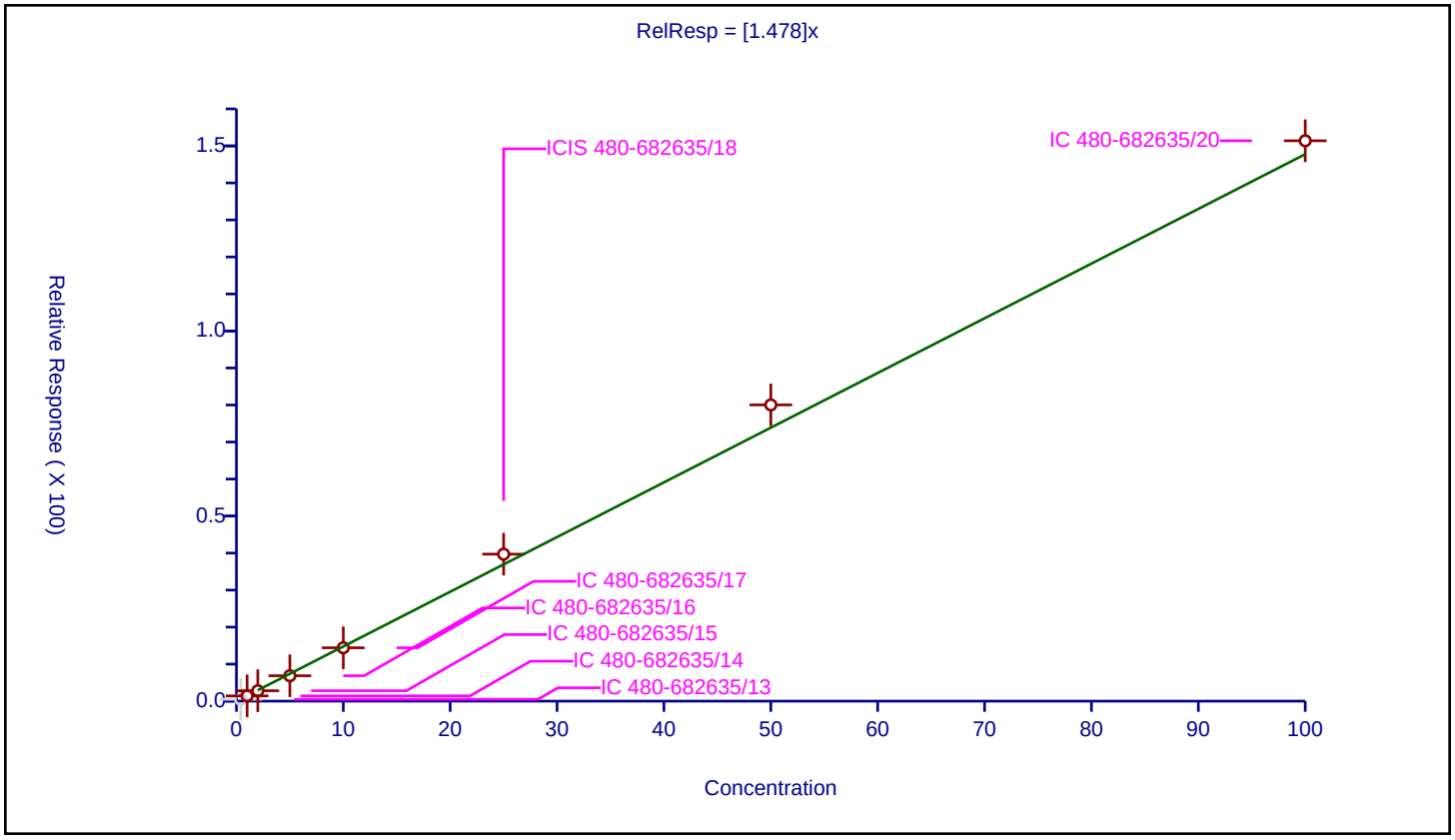
Curve Coefficients

Intercept:	0
Slope:	1.478

Error Coefficients

Standard Error:	346000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.492242	25.0	131287.0	1.230605	N
2	IC 480-682635/14	1.0	1.423293	25.0	136936.0	1.423293	Y
3	IC 480-682635/15	2.0	2.806536	25.0	141411.0	1.403268	Y
4	IC 480-682635/16	5.0	6.857595	25.0	134012.0	1.371519	Y
5	IC 480-682635/17	10.0	14.417334	25.0	131276.0	1.441733	Y
6	ICIS 480-682635/18	25.0	39.706639	25.0	124403.0	1.588266	Y
7	IC 480-682635/19	50.0	80.03384	25.0	121160.0	1.600677	Y
8	IC 480-682635/20	100.0	151.387912	25.0	119460.0	1.513879	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

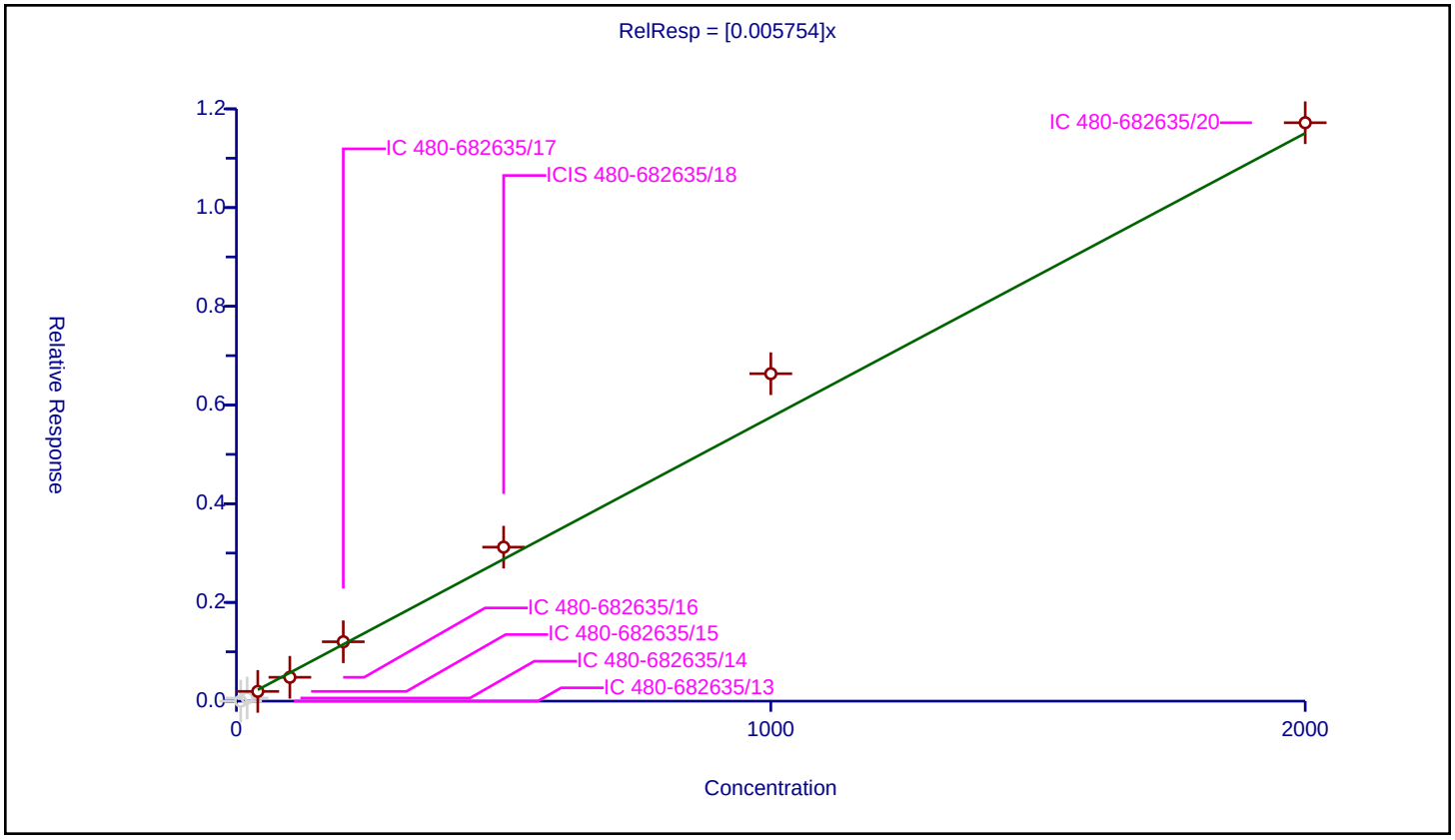
Curve Coefficients

Intercept:	0
Slope:	0.005754

Error Coefficients

Standard Error:	64300
Relative Standard Error:	12.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	8.0	0.0	25.0	253842.0	0.0	N
2	IC 480-682635/14	20.0	0.062907	25.0	274612.0	0.003145	N
3	IC 480-682635/15	40.0	0.19747	25.0	285739.0	0.004937	Y
4	IC 480-682635/16	100.0	0.4835	25.0	262306.0	0.004835	Y
5	IC 480-682635/17	200.0	1.203143	25.0	258261.0	0.006016	Y
6	ICIS 480-682635/18	500.0	3.1198	25.0	262605.0	0.00624	Y
7	IC 480-682635/19	1000.0	6.634958	25.0	259395.0	0.006635	Y
8	IC 480-682635/20	2000.0	11.719482	25.0	258354.0	0.00586	Y



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Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

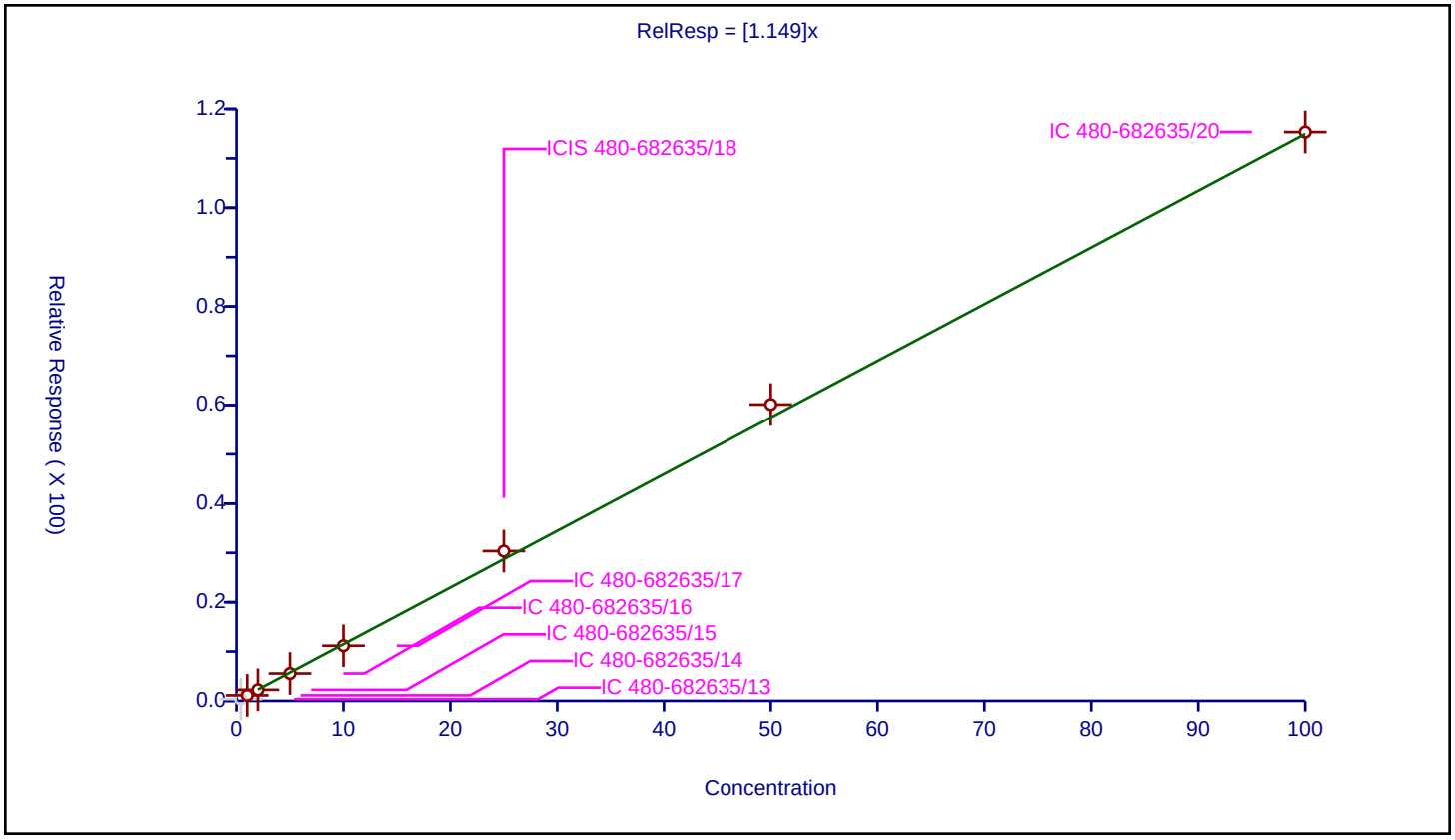
Curve Coefficients

Intercept:	0
Slope:	1.149

Error Coefficients

Standard Error:	263000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.366182	25.0	131287.0	0.915456	N
2	IC 480-682635/14	1.0	1.123152	25.0	136936.0	1.123152	Y
3	IC 480-682635/15	2.0	2.246289	25.0	141411.0	1.123145	Y
4	IC 480-682635/16	5.0	5.556965	25.0	134012.0	1.111393	Y
5	IC 480-682635/17	10.0	11.181214	25.0	131276.0	1.118121	Y
6	ICIS 480-682635/18	25.0	30.366631	25.0	124403.0	1.214665	Y
7	IC 480-682635/19	50.0	60.107709	25.0	121160.0	1.202154	Y
8	IC 480-682635/20	100.0	115.326678	25.0	119460.0	1.153267	Y



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Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

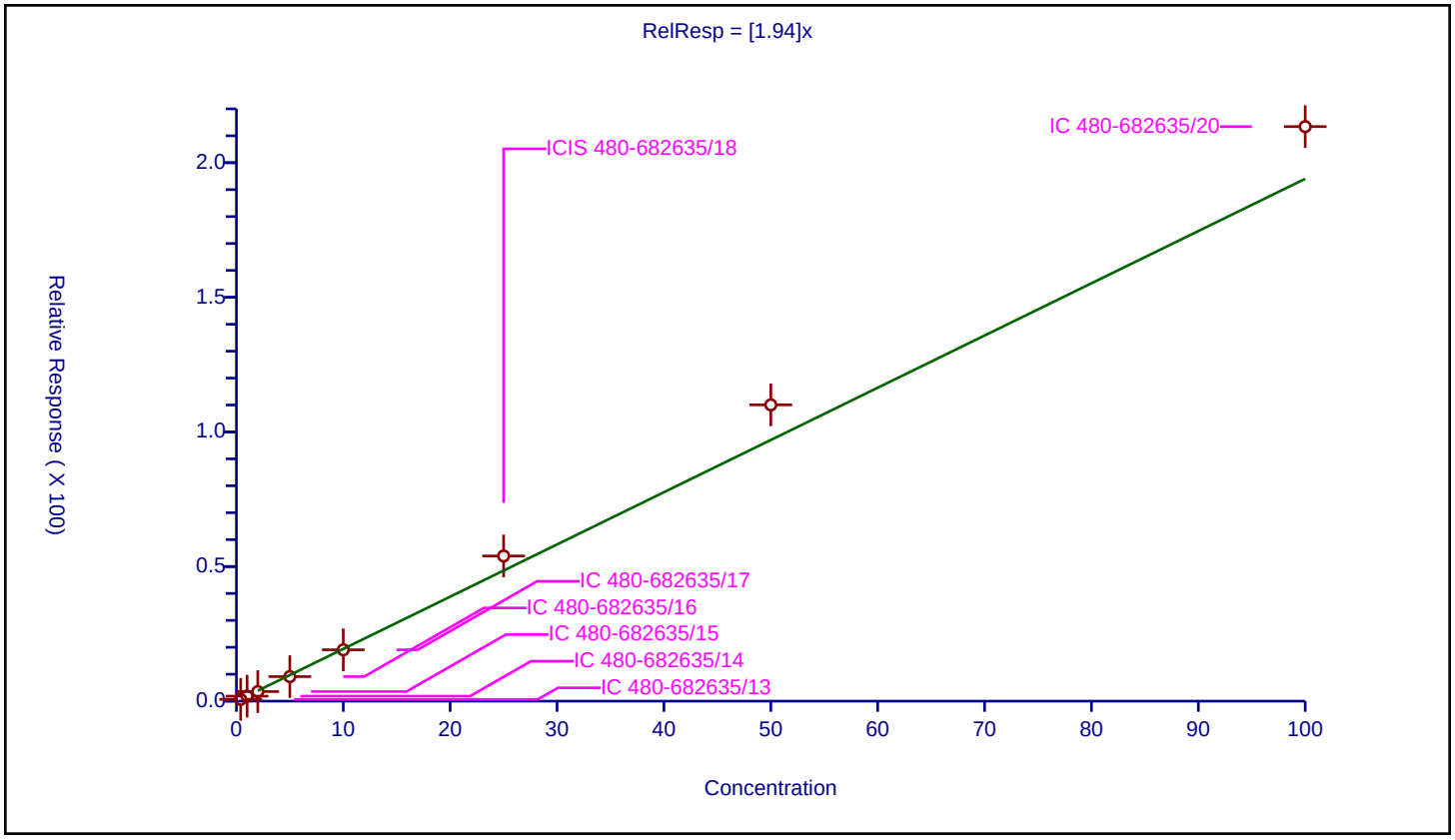
Curve Coefficients

Intercept:	0
Slope:	1.94

Error Coefficients

Standard Error:	449000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.668954	25.0	131287.0	1.672386	Y
2	IC 480-682635/14	1.0	1.850317	25.0	136936.0	1.850317	Y
3	IC 480-682635/15	2.0	3.552765	25.0	141411.0	1.776382	Y
4	IC 480-682635/16	5.0	9.115415	25.0	134012.0	1.823083	Y
5	IC 480-682635/17	10.0	19.068984	25.0	131276.0	1.906898	Y
6	ICIS 480-682635/18	25.0	53.926955	25.0	124403.0	2.157078	Y
7	IC 480-682635/19	50.0	110.060457	25.0	121160.0	2.201209	Y
8	IC 480-682635/20	100.0	213.412858	25.0	119460.0	2.134129	Y



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Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

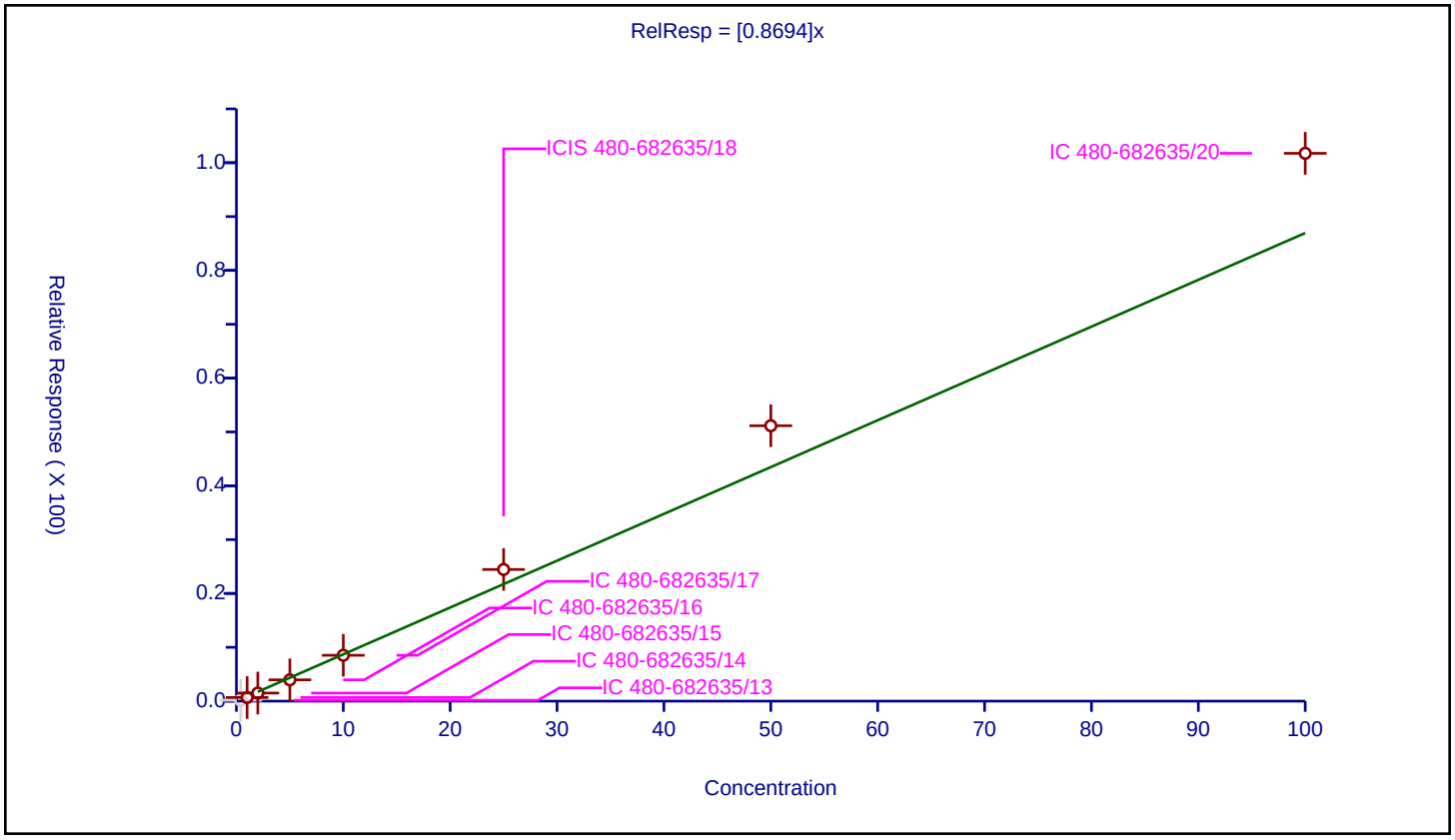
Curve Coefficients

Intercept:	0
Slope:	0.8694

Error Coefficients

Standard Error:	229000
Relative Standard Error:	16.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.167953	25.0	131287.0	0.419882	N
2	IC 480-682635/14	1.0	0.673855	25.0	136936.0	0.673855	Y
3	IC 480-682635/15	2.0	1.501298	25.0	141411.0	0.750649	Y
4	IC 480-682635/16	5.0	3.956922	25.0	134012.0	0.791384	Y
5	IC 480-682635/17	10.0	8.514885	25.0	131276.0	0.851488	Y
6	ICIS 480-682635/18	25.0	24.457007	25.0	124403.0	0.97828	Y
7	IC 480-682635/19	50.0	51.150751	25.0	121160.0	1.023015	Y
8	IC 480-682635/20	100.0	101.747656	25.0	119460.0	1.017477	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

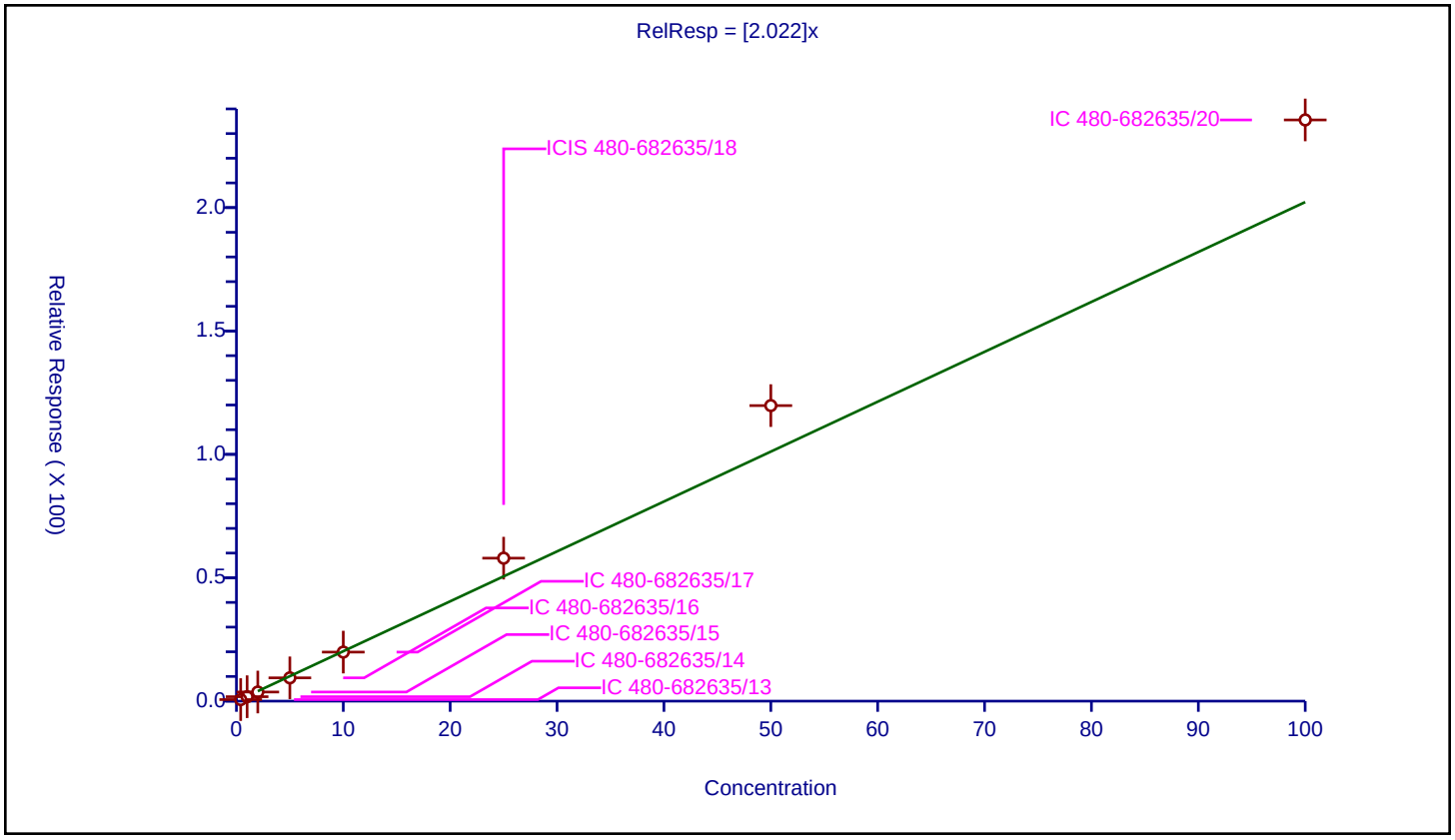
Curve Coefficients

Intercept:	0
Slope:	2.022

Error Coefficients

Standard Error:	493000
Relative Standard Error:	14.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.633726	25.0	131287.0	1.584315	Y
2	IC 480-682635/14	1.0	1.801754	25.0	136936.0	1.801754	Y
3	IC 480-682635/15	2.0	3.697202	25.0	141411.0	1.848601	Y
4	IC 480-682635/16	5.0	9.440013	25.0	134012.0	1.888003	Y
5	IC 480-682635/17	10.0	19.876444	25.0	131276.0	1.987644	Y
6	ICIS 480-682635/18	25.0	57.941127	25.0	124403.0	2.317645	Y
7	IC 480-682635/19	50.0	119.763329	25.0	121160.0	2.395267	Y
8	IC 480-682635/20	100.0	235.520676	25.0	119460.0	2.355207	Y



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Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

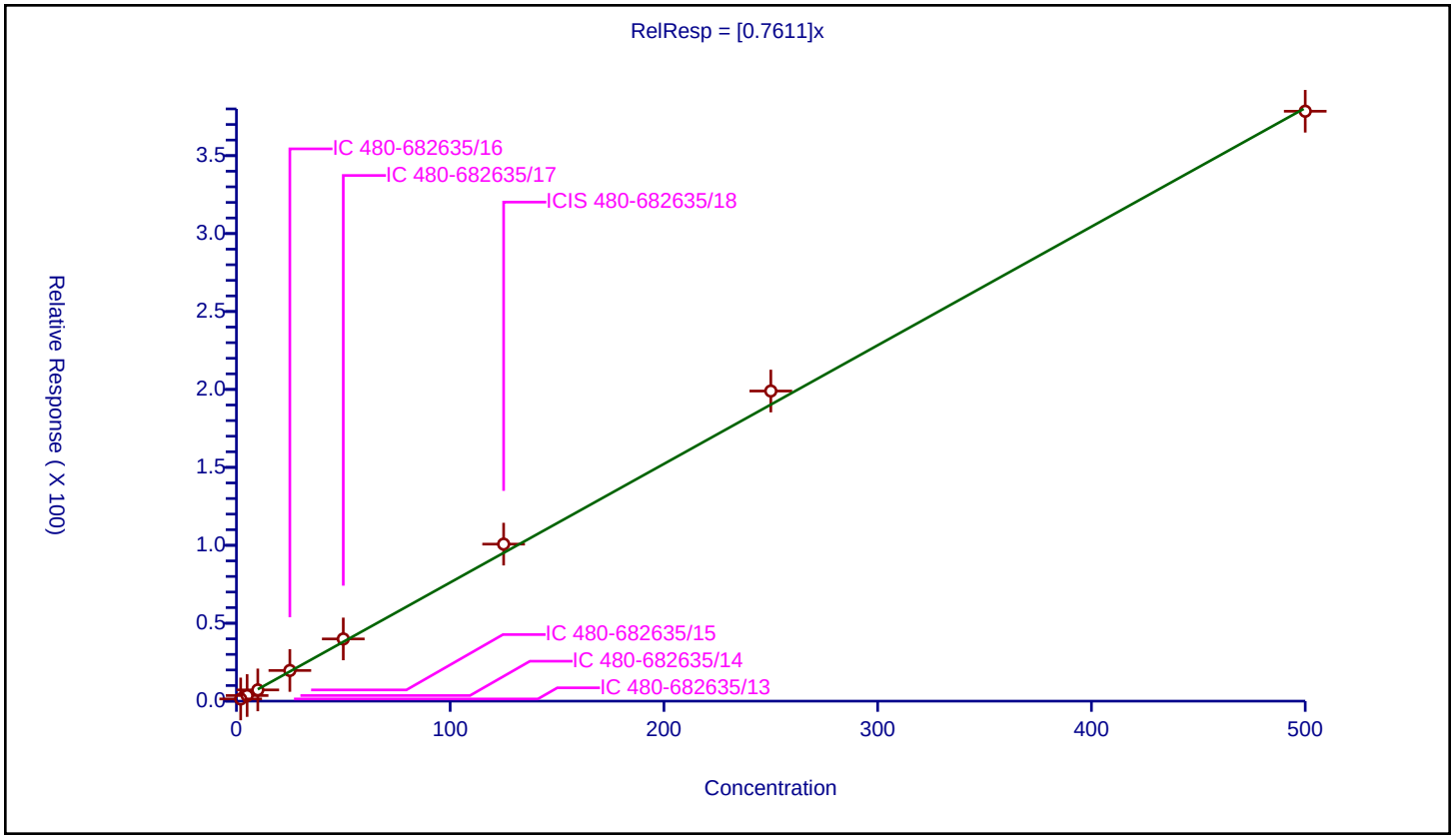
Curve Coefficients

Intercept:	0
Slope:	0.7611

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	2.0	1.40944	25.0	253842.0	0.70472	Y
2	IC 480-682635/14	5.0	3.602173	25.0	274612.0	0.720435	Y
3	IC 480-682635/15	10.0	7.195378	25.0	285739.0	0.719538	Y
4	IC 480-682635/16	25.0	19.670442	25.0	262306.0	0.786818	Y
5	IC 480-682635/17	50.0	39.915241	25.0	258261.0	0.798305	Y
6	ICIS 480-682635/18	125.0	100.74951	25.0	262605.0	0.805996	Y
7	IC 480-682635/19	250.0	198.979741	25.0	259395.0	0.795919	Y
8	IC 480-682635/20	500.0	378.500526	25.0	258354.0	0.757001	Y



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Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

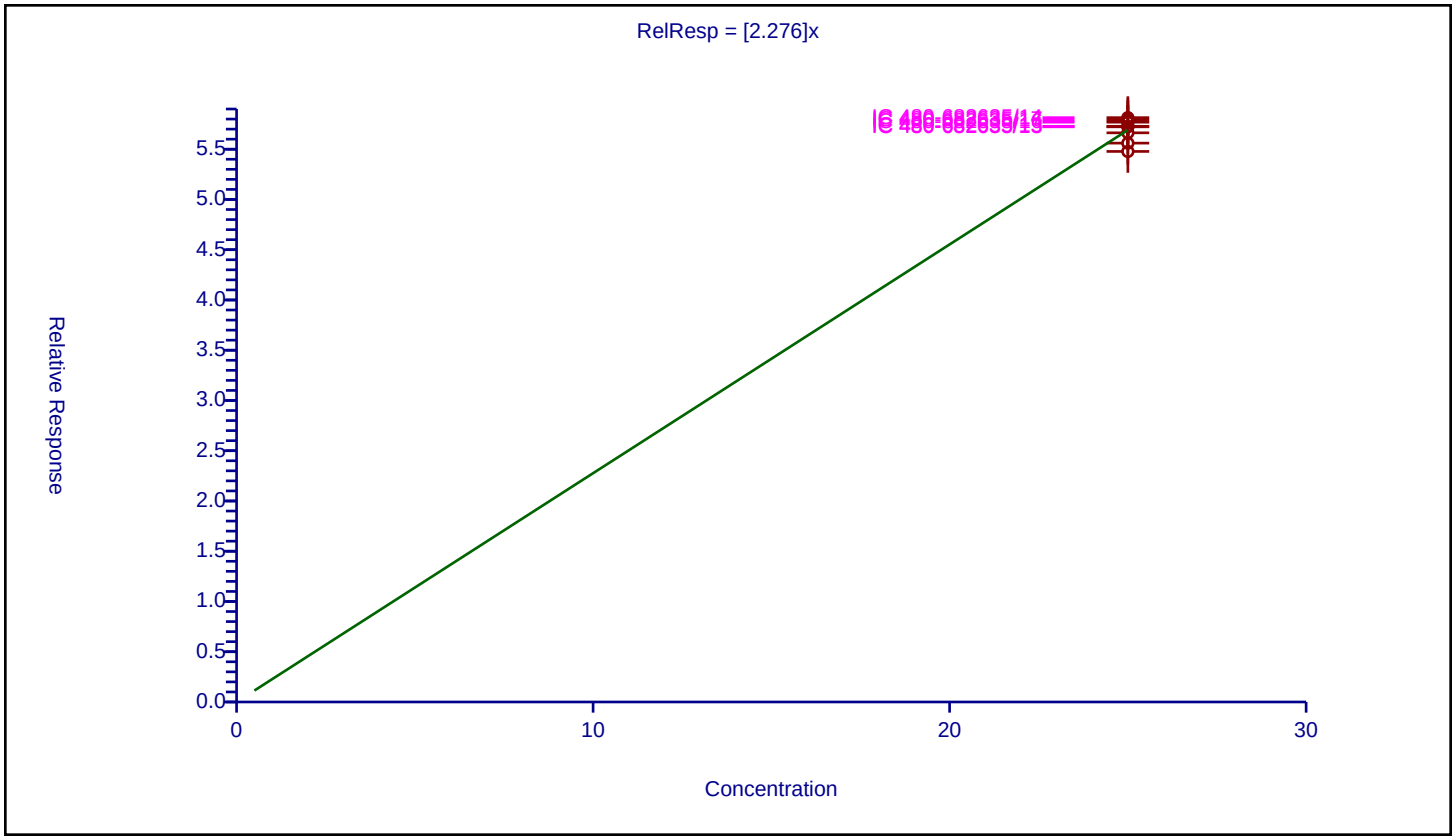
Curve Coefficients

Intercept:	0
Slope:	2.276

Error Coefficients

Standard Error:	644000
Relative Standard Error:	2.1
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	25.0	57.226739	25.0	253842.0	2.28907	Y
2	IC 480-682635/14	25.0	58.139757	25.0	274612.0	2.32559	Y
3	IC 480-682635/15	25.0	57.281383	25.0	285739.0	2.291255	Y
4	IC 480-682635/16	25.0	57.689111	25.0	262306.0	2.307564	Y
5	IC 480-682635/17	25.0	57.903439	25.0	258261.0	2.316138	Y
6	ICIS 480-682635/18	25.0	55.605567	25.0	262605.0	2.224223	Y
7	IC 480-682635/19	25.0	56.630236	25.0	259395.0	2.265209	Y
8	IC 480-682635/20	25.0	54.777263	25.0	258354.0	2.191091	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

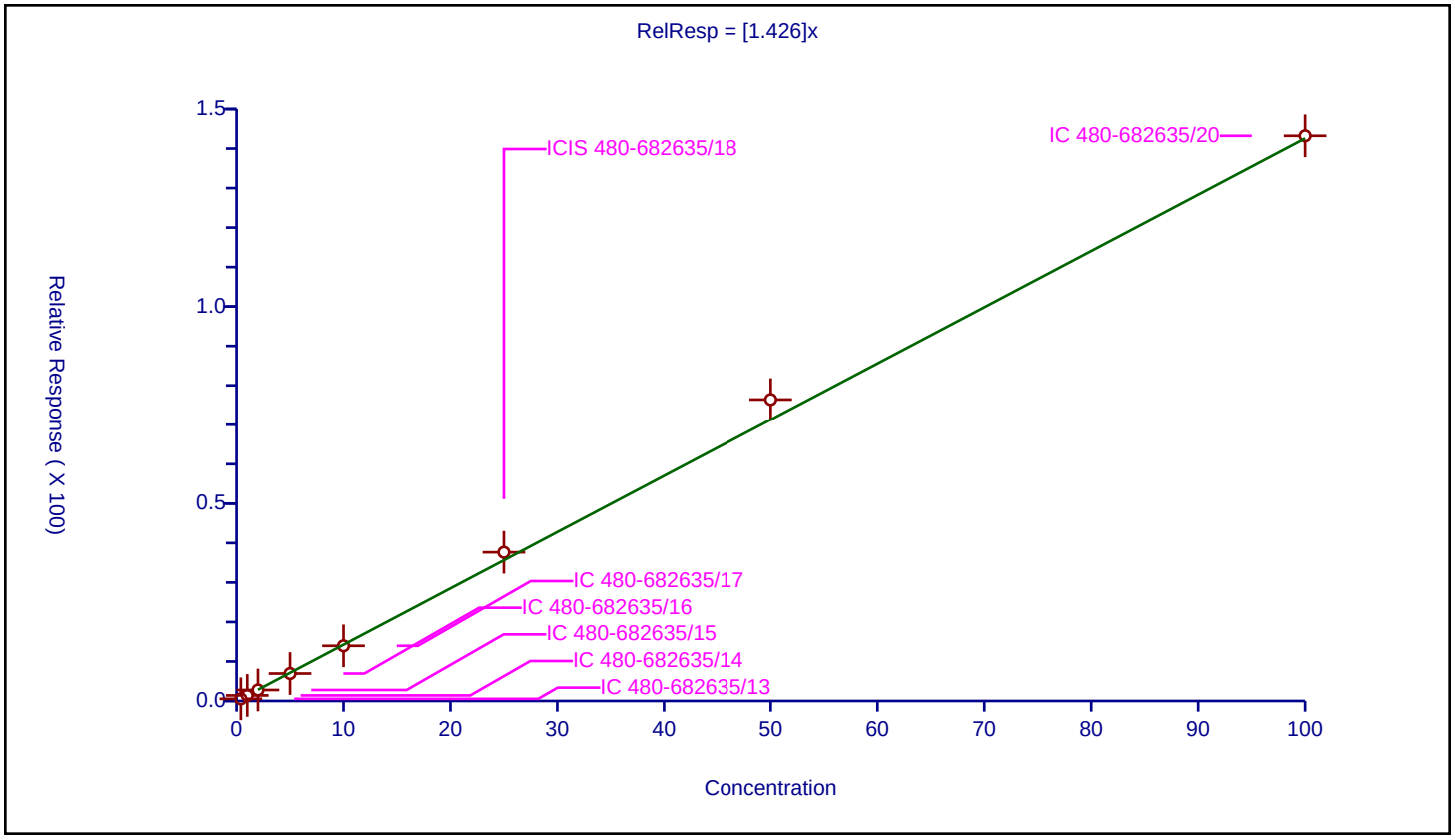
Curve Coefficients

Intercept:	0
Slope:	1.426

Error Coefficients

Standard Error:	655000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.543645	25.0	253842.0	1.359113	Y
2	IC 480-682635/14	1.0	1.403435	25.0	274612.0	1.403435	Y
3	IC 480-682635/15	2.0	2.779985	25.0	285739.0	1.389992	Y
4	IC 480-682635/16	5.0	6.954187	25.0	262306.0	1.390837	Y
5	IC 480-682635/17	10.0	13.965426	25.0	258261.0	1.396543	Y
6	ICIS 480-682635/18	25.0	37.656271	25.0	262605.0	1.506251	Y
7	IC 480-682635/19	50.0	76.401434	25.0	259395.0	1.528029	Y
8	IC 480-682635/20	100.0	143.228768	25.0	258354.0	1.432288	Y



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Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

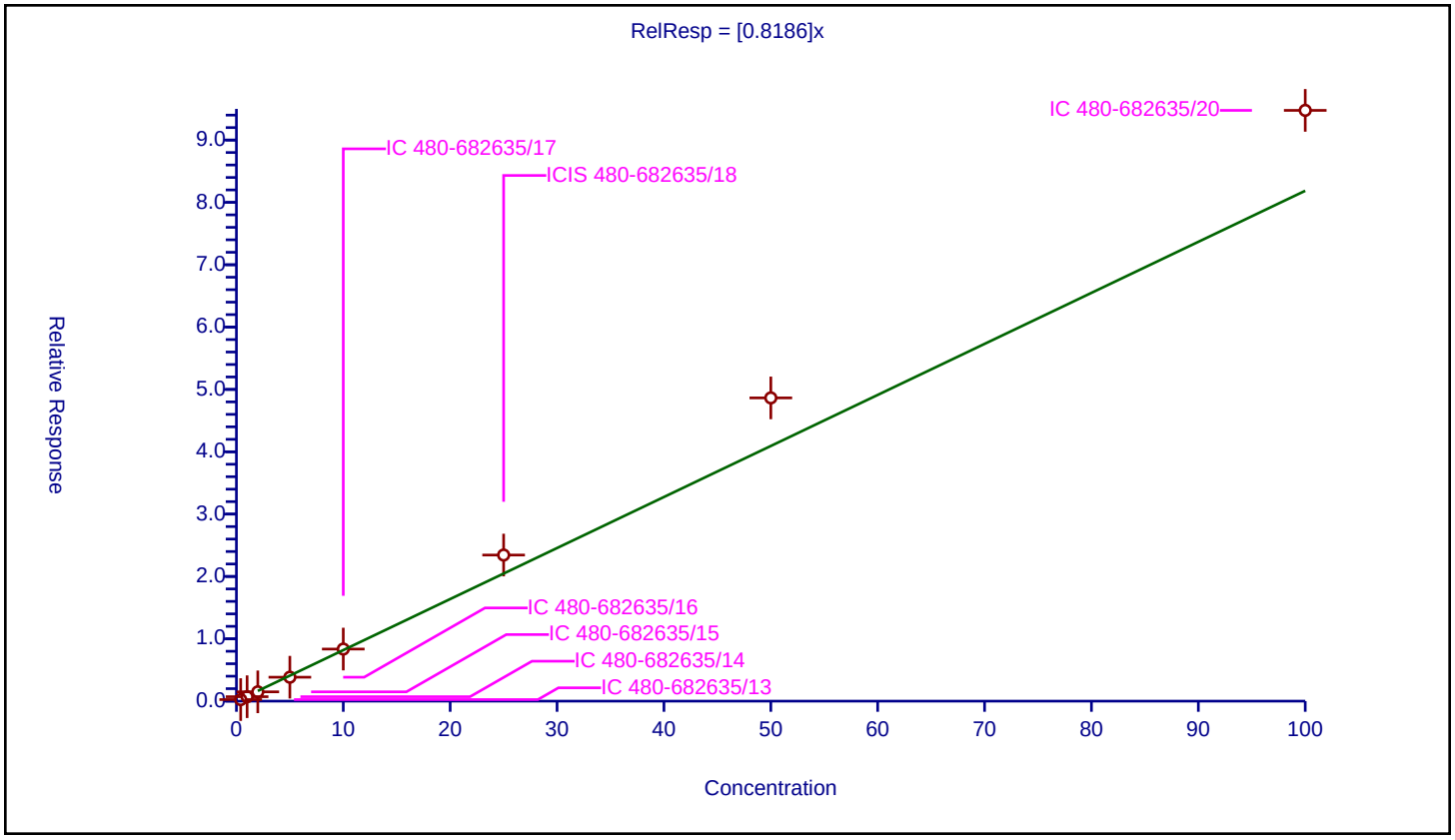
Curve Coefficients

Intercept:	0
Slope:	0.8186

Error Coefficients

Standard Error:	428000
Relative Standard Error:	15.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.25183	25.0	253842.0	0.629575	Y
2	IC 480-682635/14	1.0	0.71164	25.0	274612.0	0.71164	Y
3	IC 480-682635/15	2.0	1.492971	25.0	285739.0	0.746485	Y
4	IC 480-682635/16	5.0	3.839028	25.0	262306.0	0.767806	Y
5	IC 480-682635/17	10.0	8.356372	25.0	258261.0	0.835637	Y
6	ICIS 480-682635/18	25.0	23.436054	25.0	262605.0	0.937442	Y
7	IC 480-682635/19	50.0	48.641647	25.0	259395.0	0.972833	Y
8	IC 480-682635/20	100.0	94.760677	25.0	258354.0	0.947607	Y



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Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

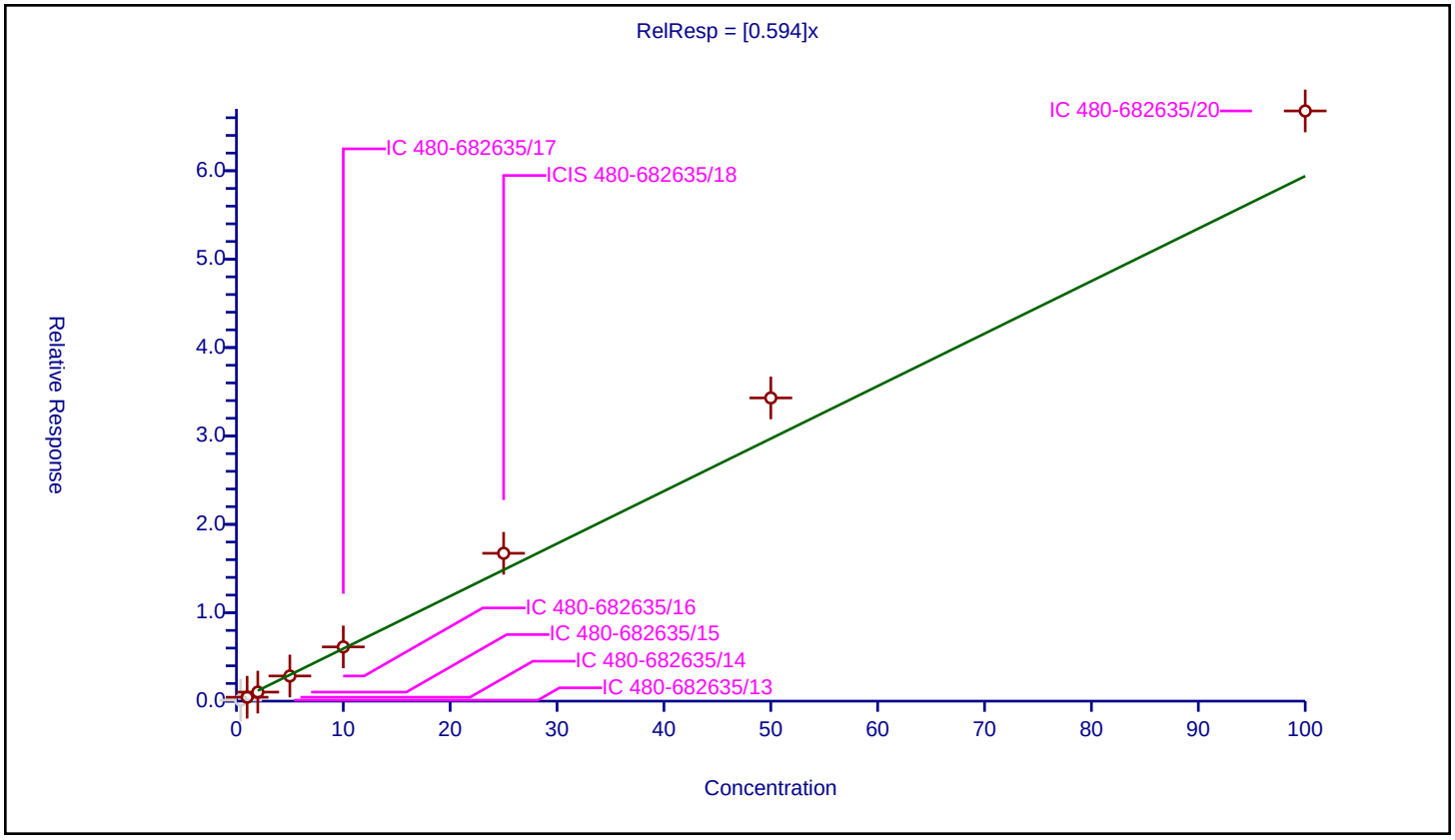
Curve Coefficients

Intercept:	0
Slope:	0.594

Error Coefficients

Standard Error:	326000
Relative Standard Error:	15.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.109123	25.0	253842.0	0.272807	N
2	IC 480-682635/14	1.0	0.440895	25.0	274612.0	0.440895	Y
3	IC 480-682635/15	2.0	1.023574	25.0	285739.0	0.511787	Y
4	IC 480-682635/16	5.0	2.845246	25.0	262306.0	0.569049	Y
5	IC 480-682635/17	10.0	6.133427	25.0	258261.0	0.613343	Y
6	ICIS 480-682635/18	25.0	16.72788	25.0	262605.0	0.669115	Y
7	IC 480-682635/19	50.0	34.303186	25.0	259395.0	0.686064	Y
8	IC 480-682635/20	100.0	66.769239	25.0	258354.0	0.667692	Y



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Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

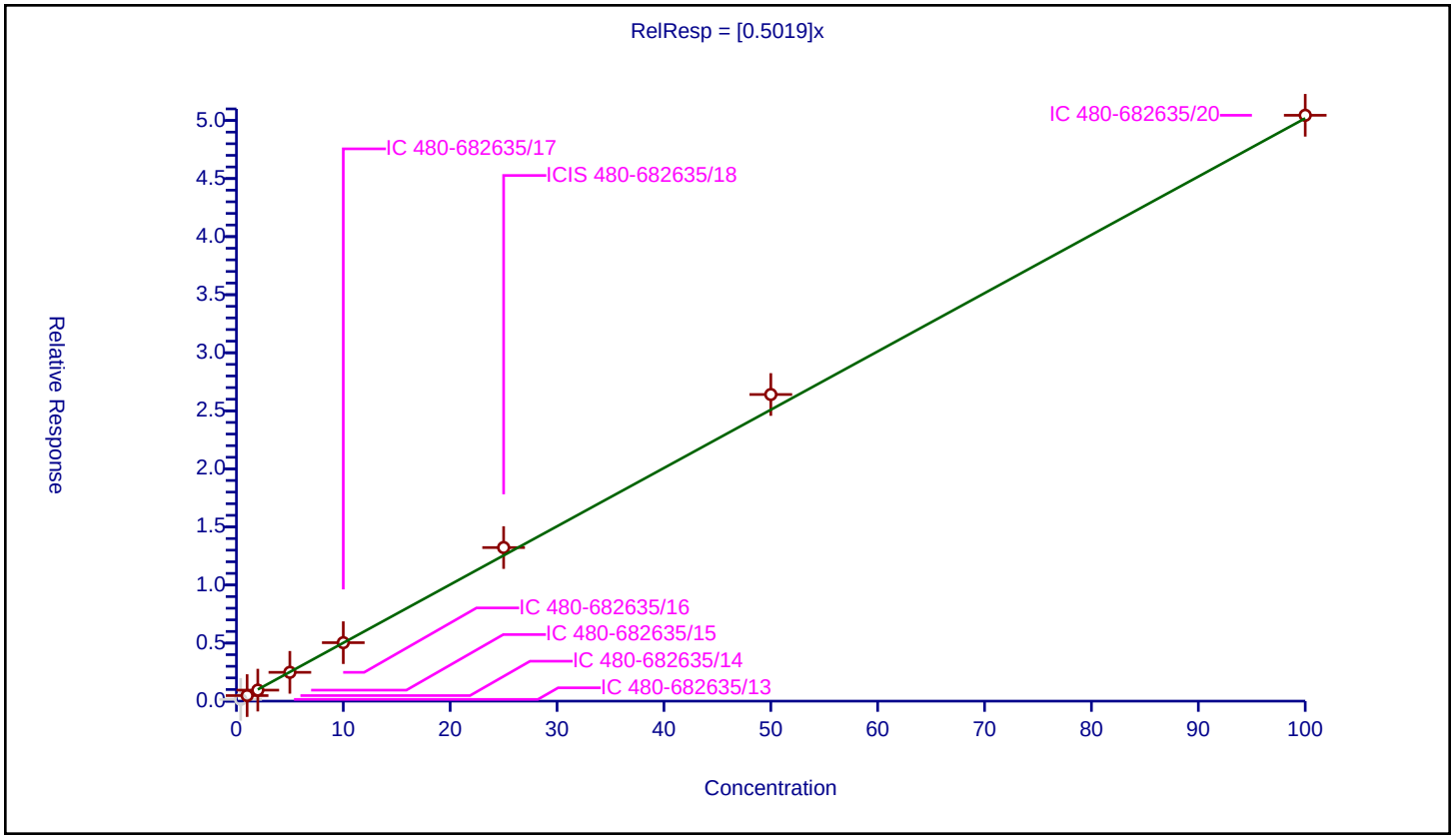
Curve Coefficients

Intercept:	0
Slope:	0.5019

Error Coefficients

Standard Error:	248000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.150586	25.0	253842.0	0.376464	N
2	IC 480-682635/14	1.0	0.477674	25.0	274612.0	0.477674	Y
3	IC 480-682635/15	2.0	0.948855	25.0	285739.0	0.474428	Y
4	IC 480-682635/16	5.0	2.479737	25.0	262306.0	0.495947	Y
5	IC 480-682635/17	10.0	5.035604	25.0	258261.0	0.50356	Y
6	ICIS 480-682635/18	25.0	13.225567	25.0	262605.0	0.529023	Y
7	IC 480-682635/19	50.0	26.40606	25.0	259395.0	0.528121	Y
8	IC 480-682635/20	100.0	50.448706	25.0	258354.0	0.504487	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

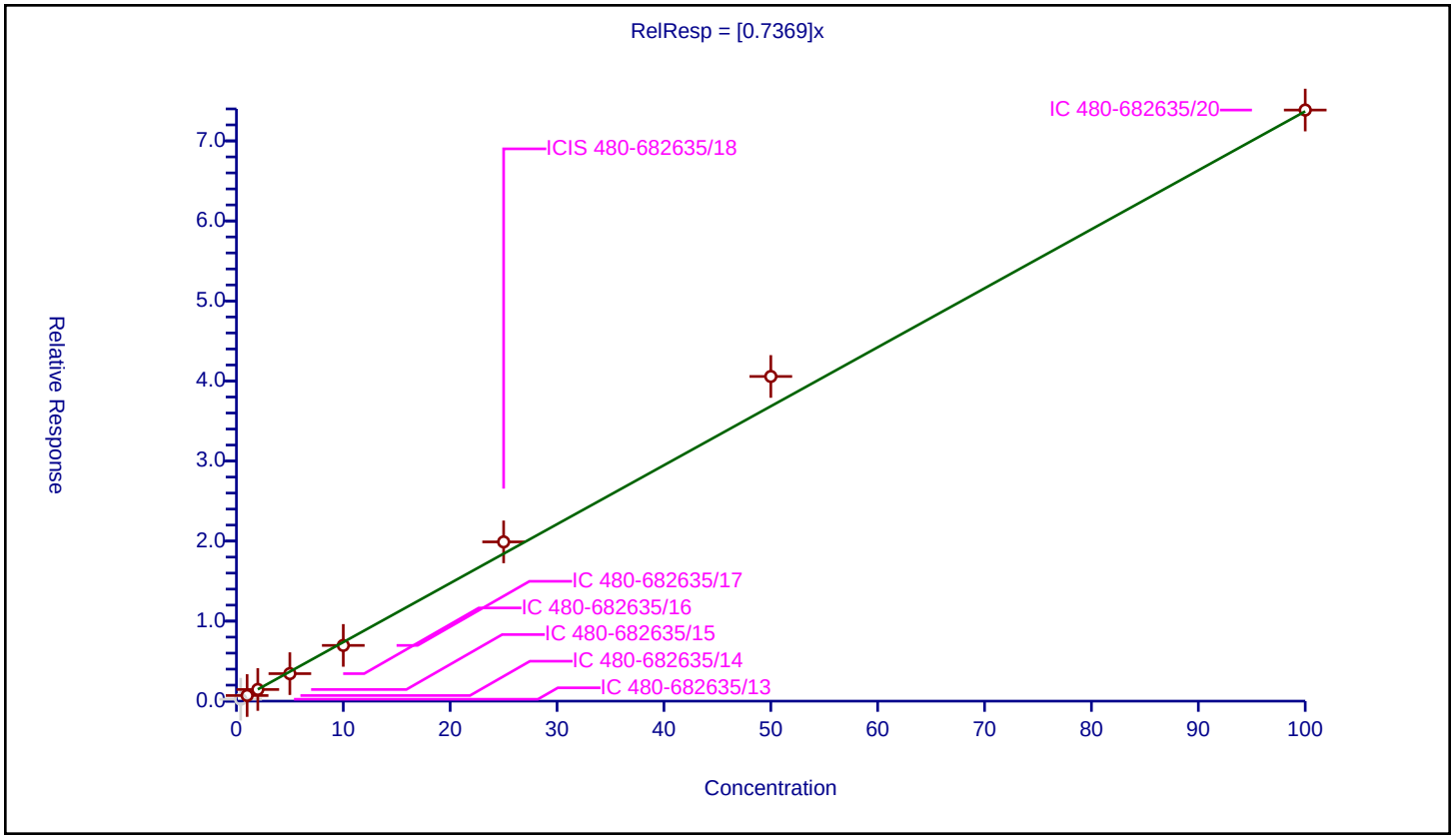
Curve Coefficients

Intercept:	0
Slope:	0.7369

Error Coefficients

Standard Error:	367000
Relative Standard Error:	6.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.237549	25.0	253842.0	0.593873	N
2	IC 480-682635/14	1.0	0.700261	25.0	274612.0	0.700261	Y
3	IC 480-682635/15	2.0	1.457274	25.0	285739.0	0.728637	Y
4	IC 480-682635/16	5.0	3.437016	25.0	262306.0	0.687403	Y
5	IC 480-682635/17	10.0	6.962917	25.0	258261.0	0.696292	Y
6	ICIS 480-682635/18	25.0	19.898802	25.0	262605.0	0.795952	Y
7	IC 480-682635/19	50.0	40.567089	25.0	259395.0	0.811342	Y
8	IC 480-682635/20	100.0	73.857382	25.0	258354.0	0.738574	Y



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Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

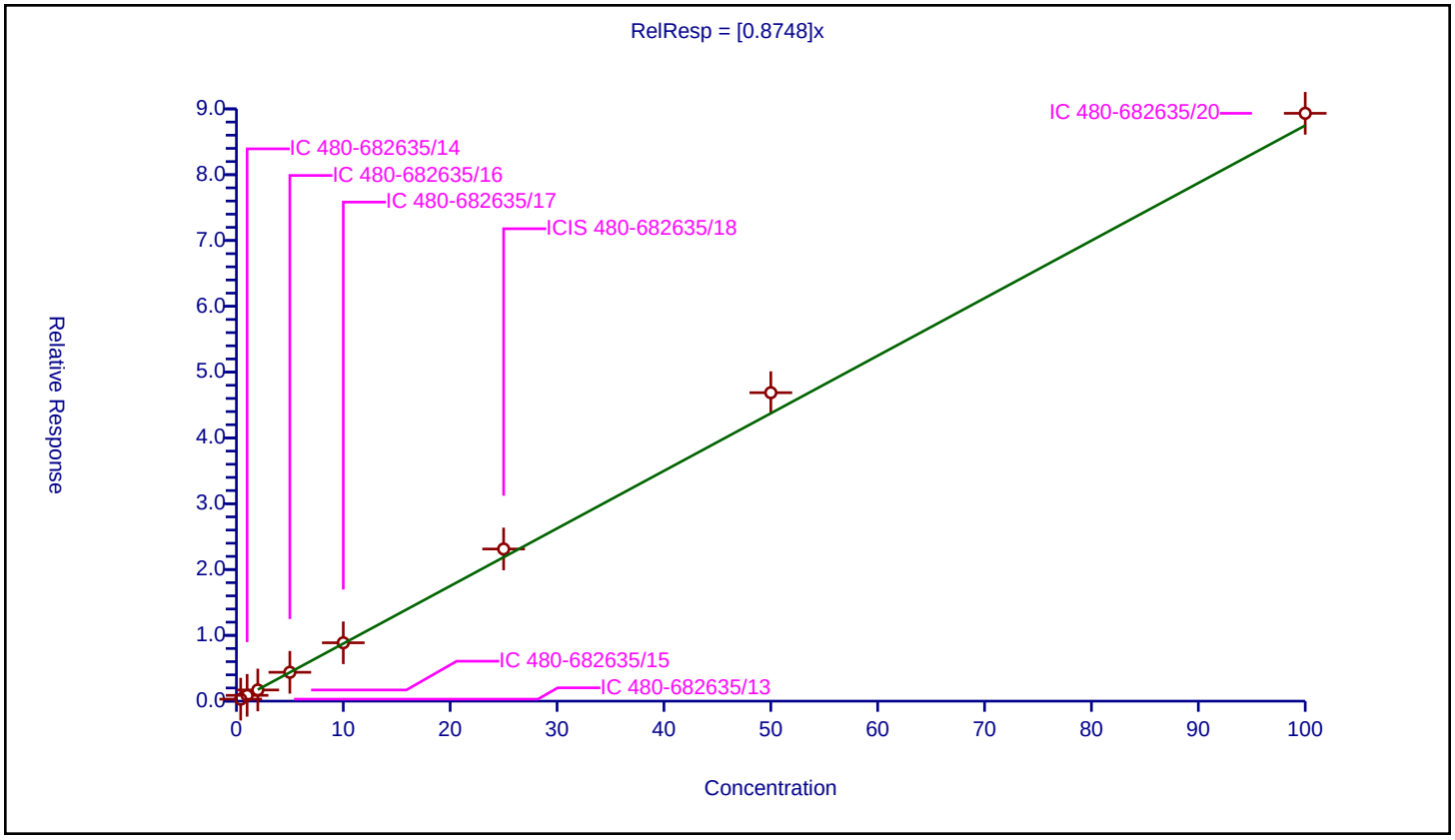
Curve Coefficients

Intercept:	0
Slope:	0.8748

Error Coefficients

Standard Error:	407000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.300384	25.0	253842.0	0.750959	Y
2	IC 480-682635/14	1.0	0.878694	25.0	274612.0	0.878694	Y
3	IC 480-682635/15	2.0	1.697966	25.0	285739.0	0.848983	Y
4	IC 480-682635/16	5.0	4.386003	25.0	262306.0	0.877201	Y
5	IC 480-682635/17	10.0	8.868064	25.0	258261.0	0.886806	Y
6	ICIS 480-682635/18	25.0	23.12218	25.0	262605.0	0.924887	Y
7	IC 480-682635/19	50.0	46.873398	25.0	259395.0	0.937468	Y
8	IC 480-682635/20	100.0	89.327144	25.0	258354.0	0.893271	Y



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Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

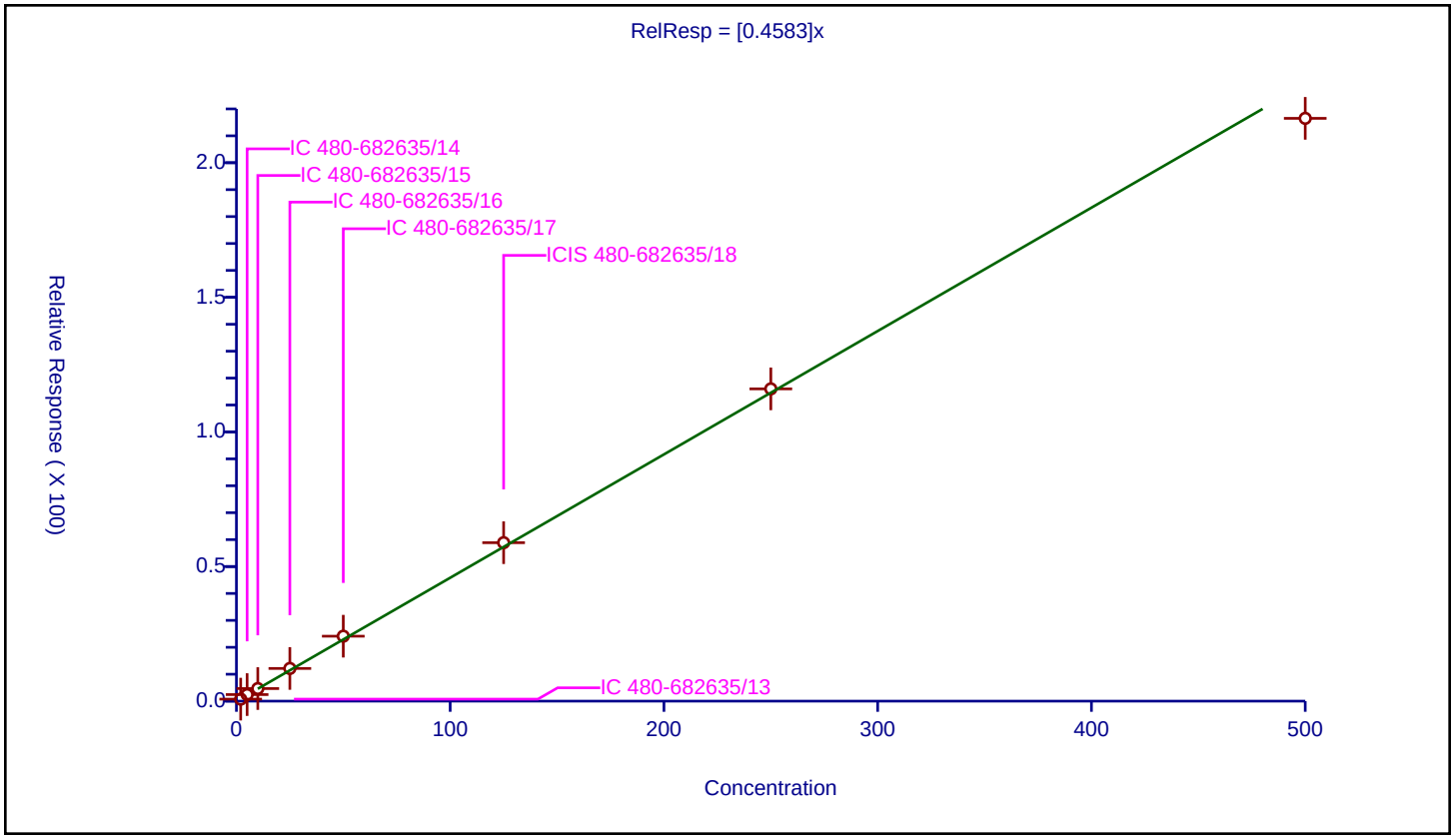
Curve Coefficients

Intercept:	0
Slope:	0.4583

Error Coefficients

Standard Error:	994000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	2.0	0.751353	25.0	253842.0	0.375677	Y
2	IC 480-682635/14	5.0	2.435436	25.0	274612.0	0.487087	Y
3	IC 480-682635/15	10.0	4.671221	25.0	285739.0	0.467122	Y
4	IC 480-682635/16	25.0	12.14326	25.0	262306.0	0.48573	Y
5	IC 480-682635/17	50.0	24.127336	25.0	258261.0	0.482547	Y
6	ICIS 480-682635/18	125.0	58.866929	25.0	262605.0	0.470935	Y
7	IC 480-682635/19	250.0	116.00185	25.0	259395.0	0.464007	Y
8	IC 480-682635/20	500.0	216.483197	25.0	258354.0	0.432966	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

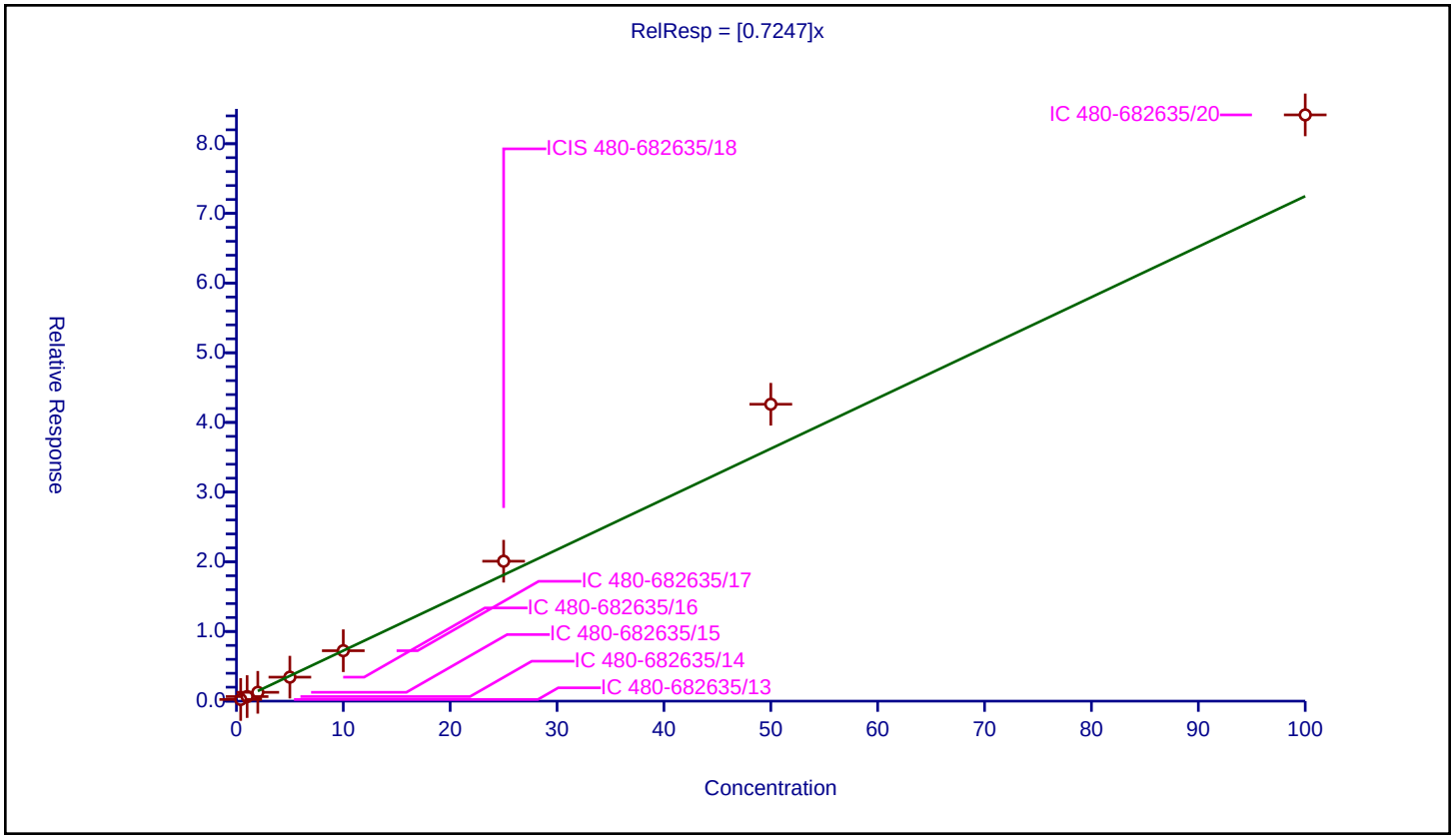
Curve Coefficients

Intercept:	0
Slope:	0.7247

Error Coefficients

Standard Error:	379000
Relative Standard Error:	13.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.240602	25.0	253842.0	0.601506	Y
2	IC 480-682635/14	1.0	0.653832	25.0	274612.0	0.653832	Y
3	IC 480-682635/15	2.0	1.265666	25.0	285739.0	0.632833	Y
4	IC 480-682635/16	5.0	3.443879	25.0	262306.0	0.688776	Y
5	IC 480-682635/17	10.0	7.237736	25.0	258261.0	0.723774	Y
6	ICIS 480-682635/18	25.0	20.082634	25.0	262605.0	0.803305	Y
7	IC 480-682635/19	50.0	42.612136	25.0	259395.0	0.852243	Y
8	IC 480-682635/20	100.0	84.139108	25.0	258354.0	0.841391	Y



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Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

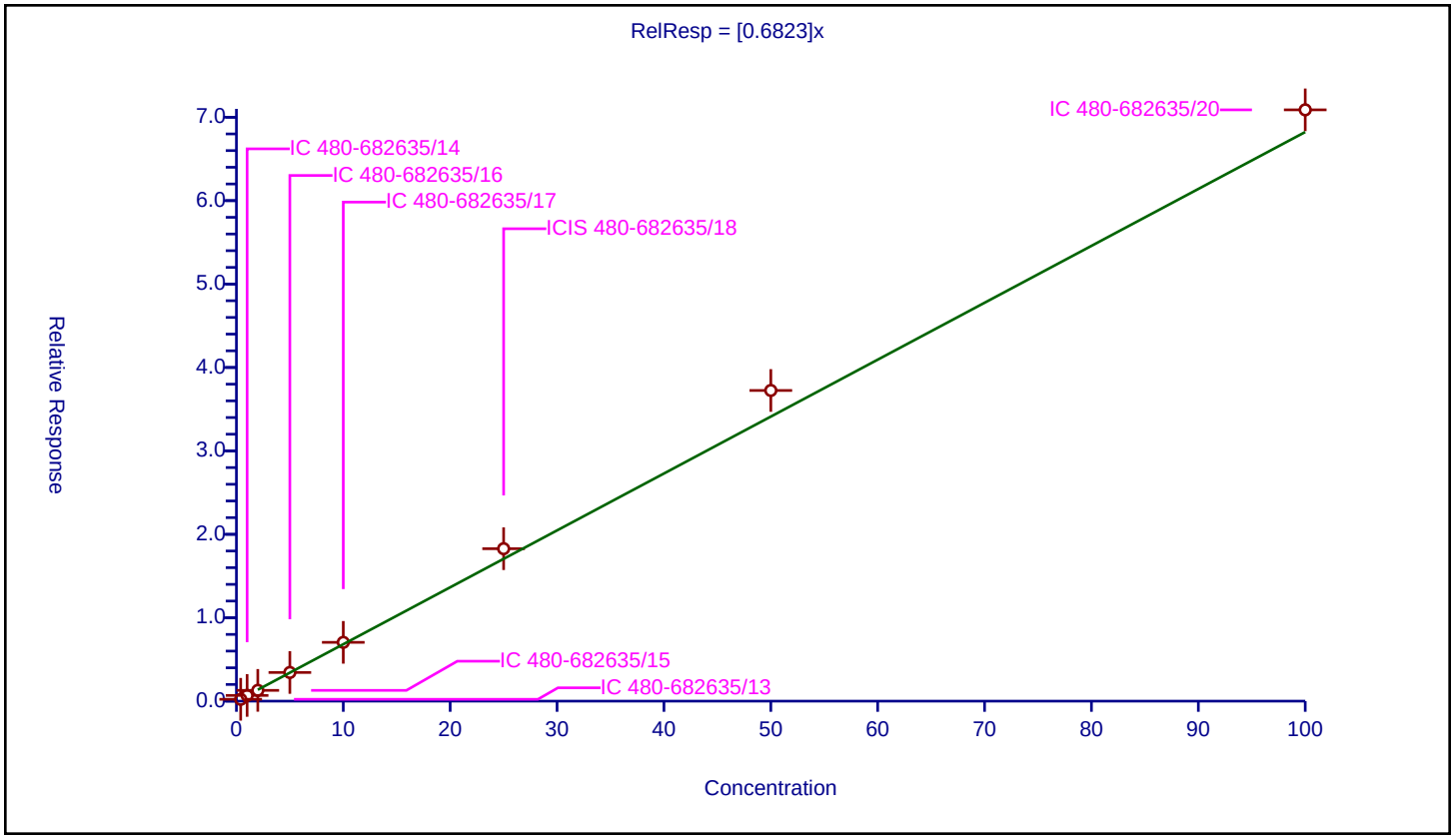
Curve Coefficients

Intercept:	0
Slope:	0.6823

Error Coefficients

Standard Error:	323000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.220905	25.0	253842.0	0.552263	Y
2	IC 480-682635/14	1.0	0.683692	25.0	274612.0	0.683692	Y
3	IC 480-682635/15	2.0	1.290426	25.0	285739.0	0.645213	Y
4	IC 480-682635/16	5.0	3.43654	25.0	262306.0	0.687308	Y
5	IC 480-682635/17	10.0	7.048199	25.0	258261.0	0.70482	Y
6	ICIS 480-682635/18	25.0	18.273453	25.0	262605.0	0.730938	Y
7	IC 480-682635/19	50.0	37.245417	25.0	259395.0	0.744908	Y
8	IC 480-682635/20	100.0	70.885878	25.0	258354.0	0.708859	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

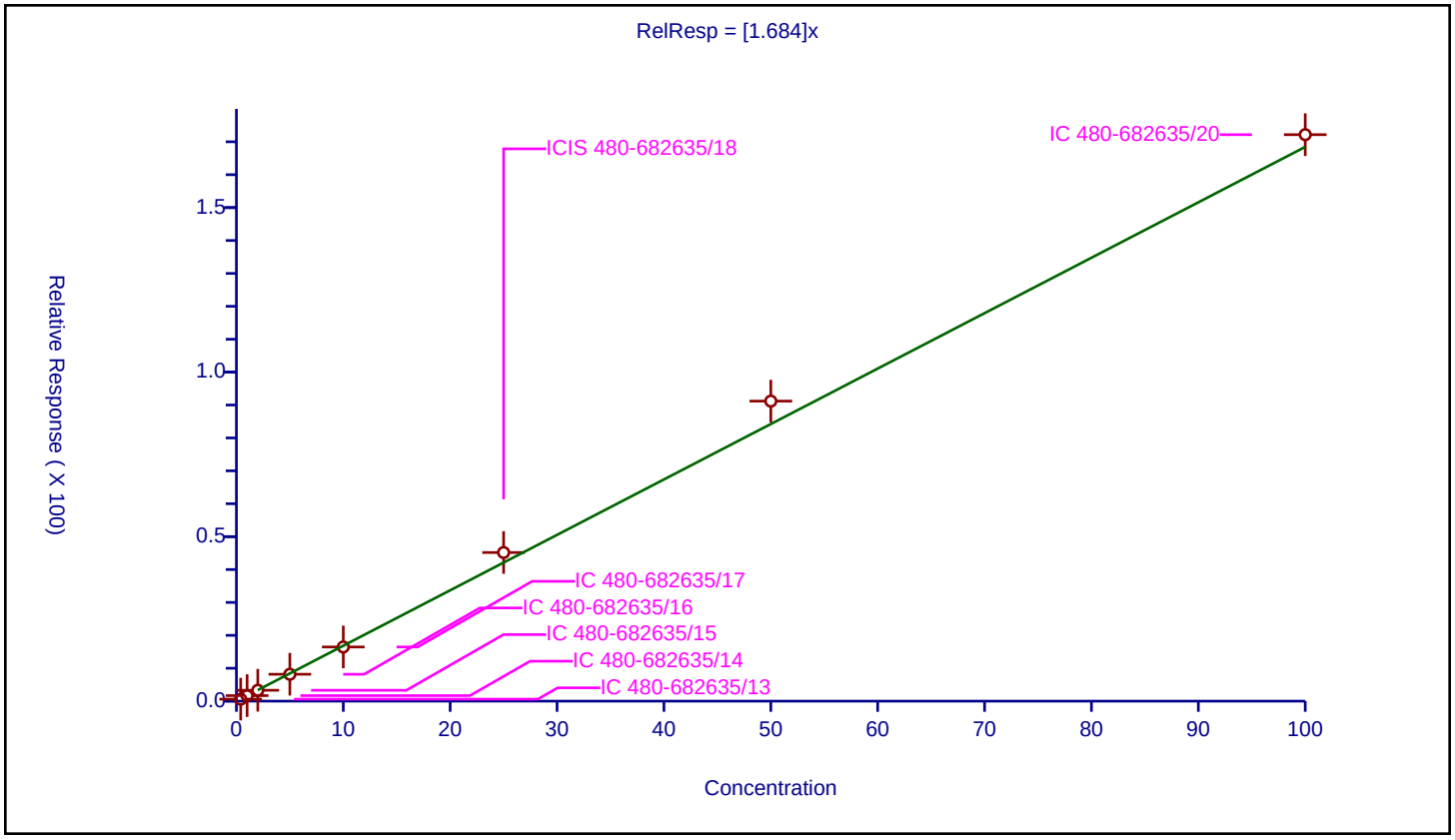
Curve Coefficients

Intercept:	0
Slope:	1.684

Error Coefficients

Standard Error:	786000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.604608	25.0	253842.0	1.511521	Y
2	IC 480-682635/14	1.0	1.677276	25.0	274612.0	1.677276	Y
3	IC 480-682635/15	2.0	3.309226	25.0	285739.0	1.654613	Y
4	IC 480-682635/16	5.0	8.169943	25.0	262306.0	1.633989	Y
5	IC 480-682635/17	10.0	16.459028	25.0	258261.0	1.645903	Y
6	ICIS 480-682635/18	25.0	45.172217	25.0	262605.0	1.806889	Y
7	IC 480-682635/19	50.0	91.180535	25.0	259395.0	1.823611	Y
8	IC 480-682635/20	100.0	172.165807	25.0	258354.0	1.721658	Y



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Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

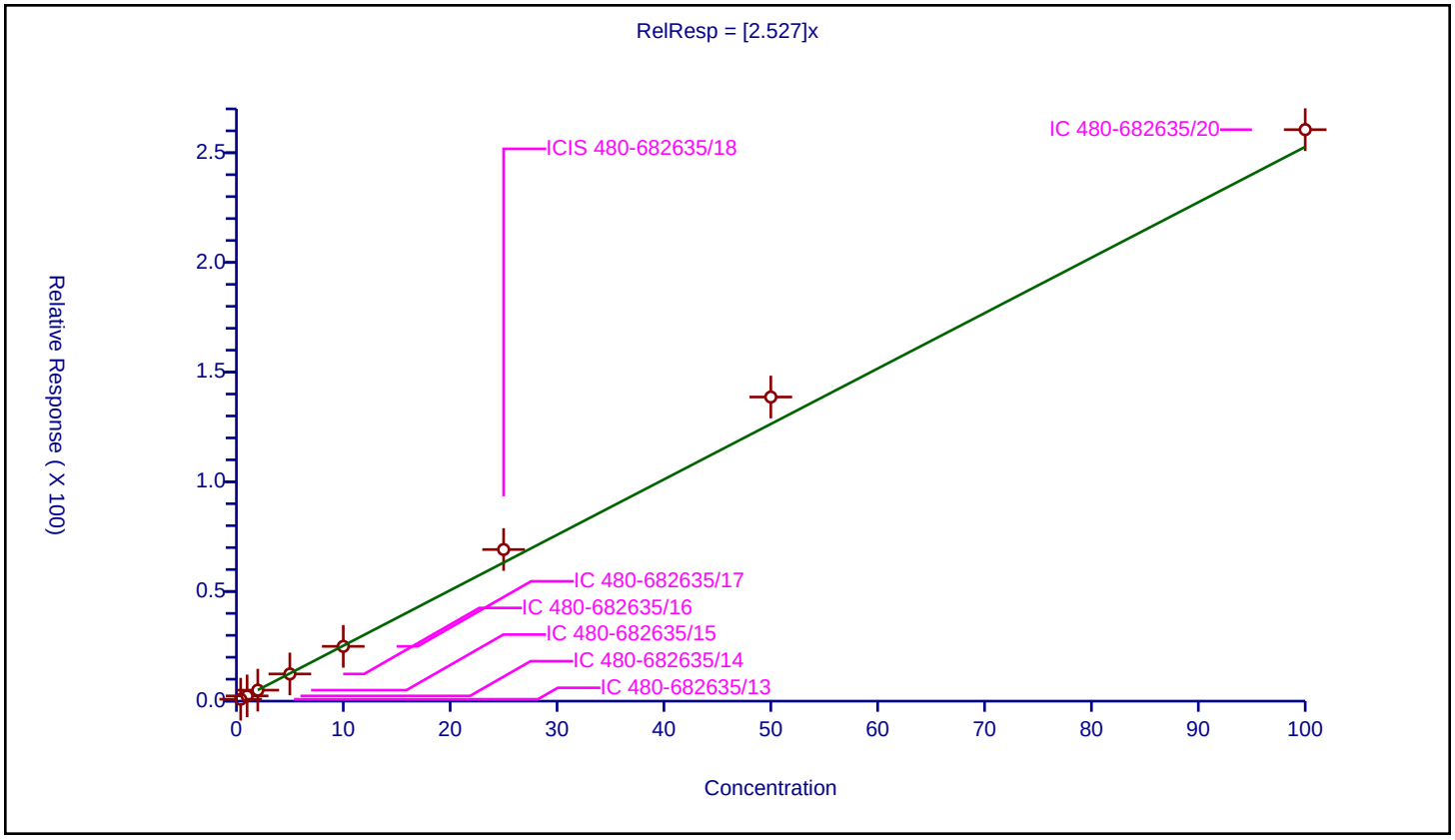
Curve Coefficients

Intercept:	0
Slope:	2.527

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.882833	25.0	253842.0	2.207082	Y
2	IC 480-682635/14	1.0	2.386367	25.0	274612.0	2.386367	Y
3	IC 480-682635/15	2.0	5.006054	25.0	285739.0	2.503027	Y
4	IC 480-682635/16	5.0	12.395351	25.0	262306.0	2.47907	Y
5	IC 480-682635/17	10.0	24.969895	25.0	258261.0	2.496989	Y
6	ICIS 480-682635/18	25.0	69.124636	25.0	262605.0	2.764985	Y
7	IC 480-682635/19	50.0	138.641647	25.0	259395.0	2.772833	Y
8	IC 480-682635/20	100.0	260.53148	25.0	258354.0	2.605315	Y



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Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

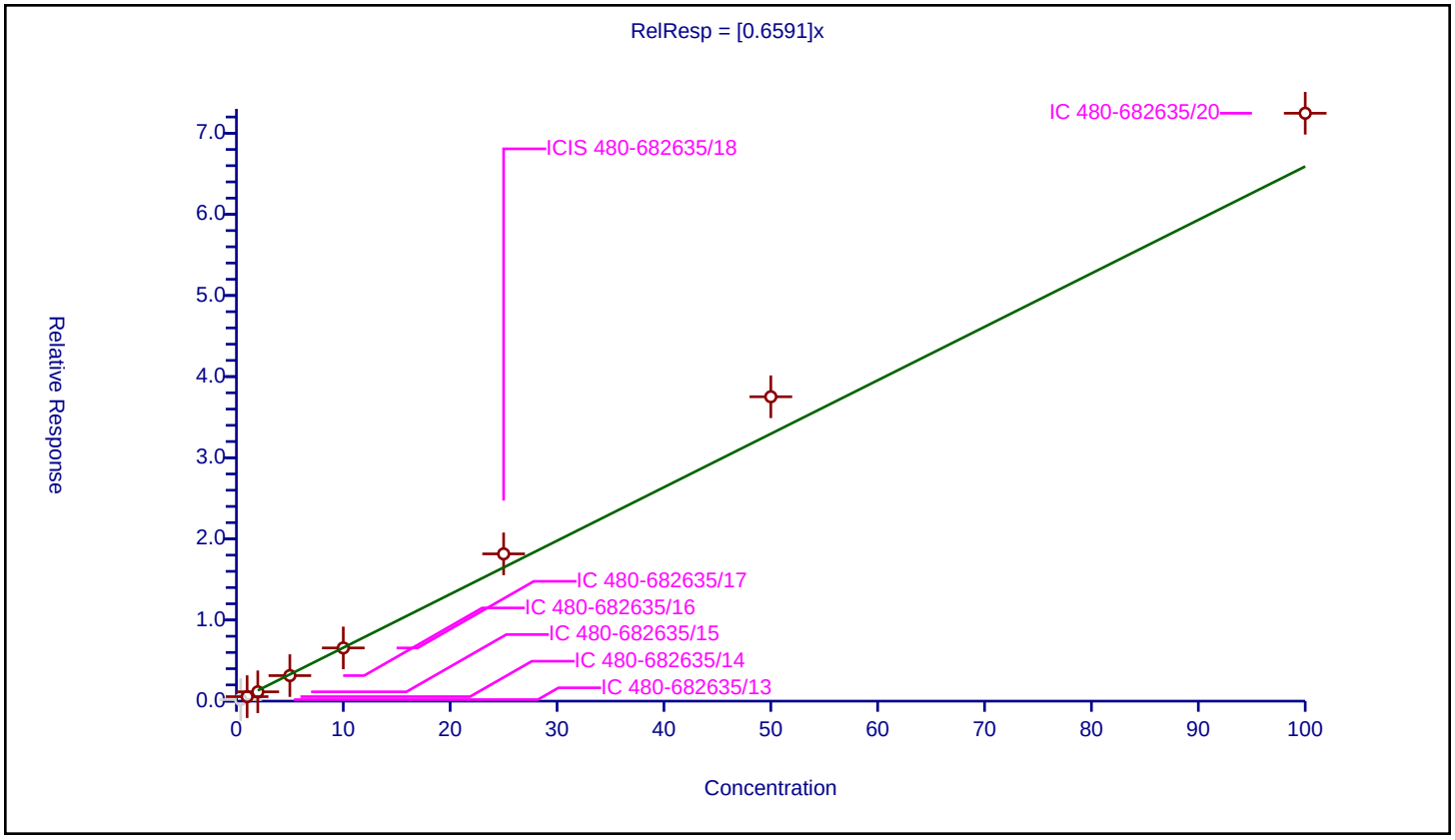
Curve Coefficients

Intercept:	0
Slope:	0.6591

Error Coefficients

Standard Error:	355000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.189094	25.0	253842.0	0.472735	N
2	IC 480-682635/14	1.0	0.552416	25.0	274612.0	0.552416	Y
3	IC 480-682635/15	2.0	1.149126	25.0	285739.0	0.574563	Y
4	IC 480-682635/16	5.0	3.147755	25.0	262306.0	0.629551	Y
5	IC 480-682635/17	10.0	6.557901	25.0	258261.0	0.65579	Y
6	ICIS 480-682635/18	25.0	18.151121	25.0	262605.0	0.726045	Y
7	IC 480-682635/19	50.0	37.518071	25.0	259395.0	0.750361	Y
8	IC 480-682635/20	100.0	72.463171	25.0	258354.0	0.724632	Y



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Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

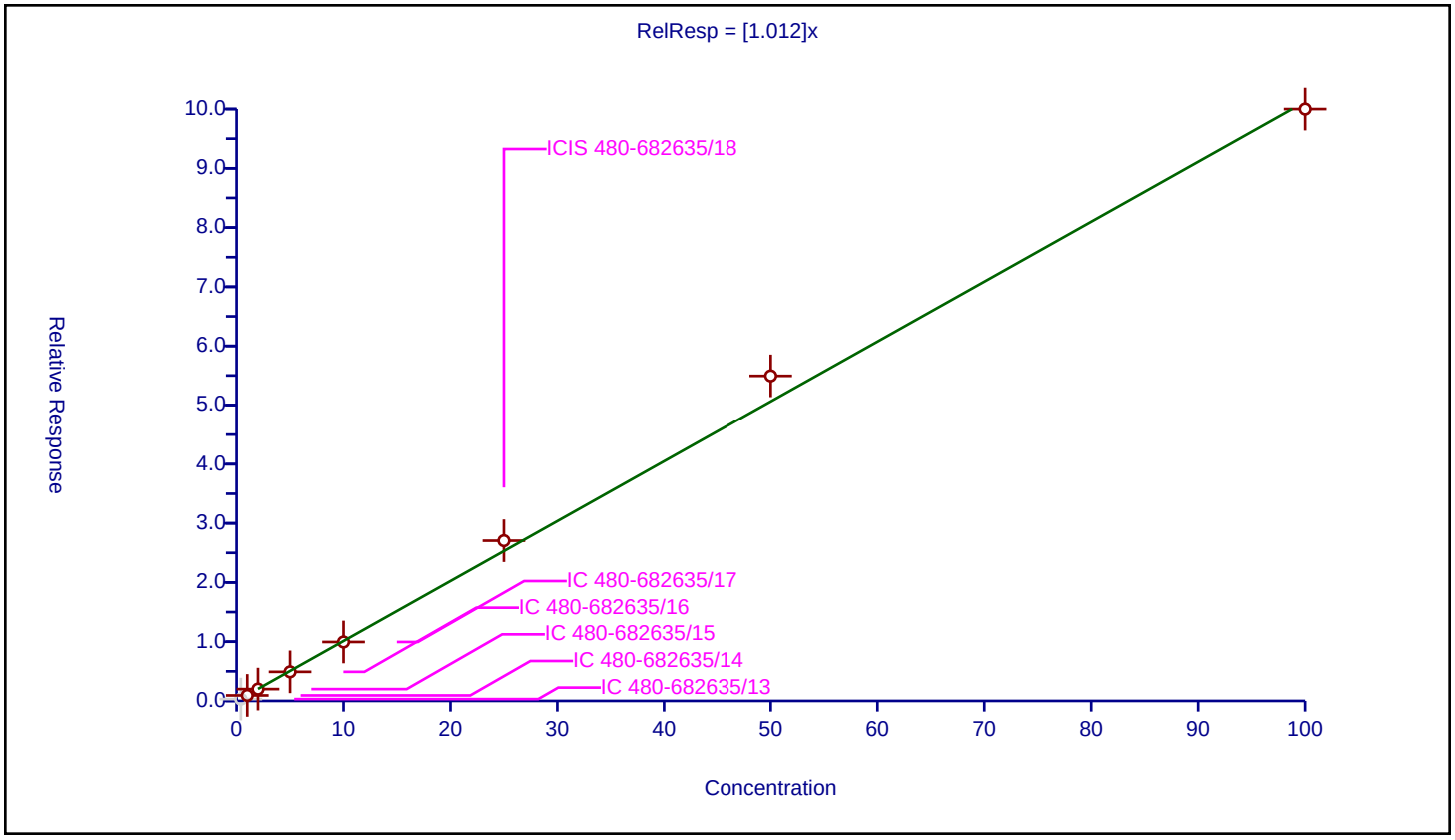
Curve Coefficients

Intercept:	0
Slope:	1.012

Error Coefficients

Standard Error:	498000
Relative Standard Error:	5.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.313285	25.0	253842.0	0.783214	N
2	IC 480-682635/14	1.0	0.927581	25.0	274612.0	0.927581	Y
3	IC 480-682635/15	2.0	1.99719	25.0	285739.0	0.998595	Y
4	IC 480-682635/16	5.0	4.913917	25.0	262306.0	0.982783	Y
5	IC 480-682635/17	10.0	9.952335	25.0	258261.0	0.995234	Y
6	ICIS 480-682635/18	25.0	27.063365	25.0	262605.0	1.082535	Y
7	IC 480-682635/19	50.0	54.940342	25.0	259395.0	1.098807	Y
8	IC 480-682635/20	100.0	99.992549	25.0	258354.0	0.999925	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

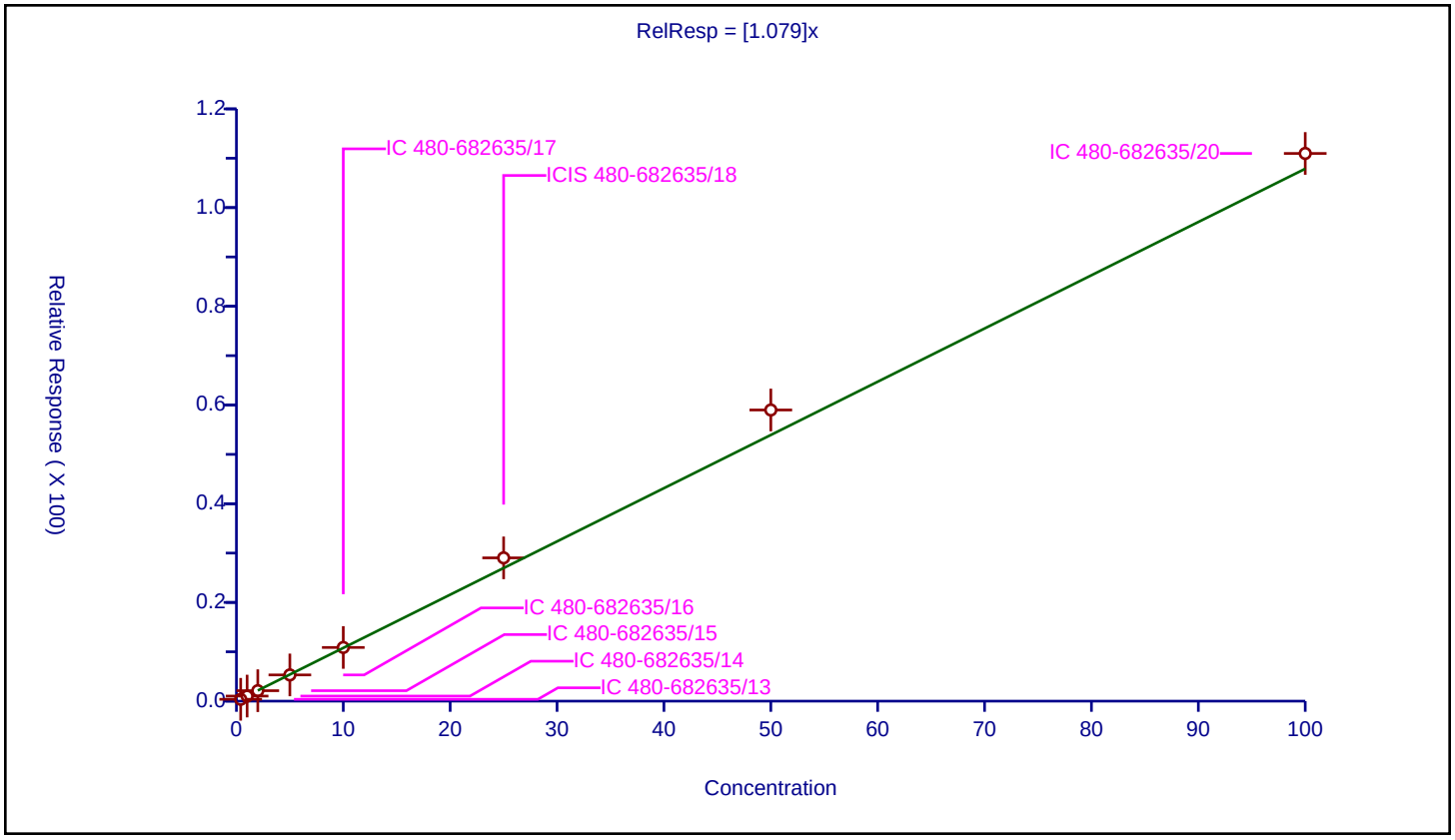
Curve Coefficients

Intercept:	0
Slope:	1.079

Error Coefficients

Standard Error:	507000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.376809	25.0	253842.0	0.942023	Y
2	IC 480-682635/14	1.0	1.027723	25.0	274612.0	1.027723	Y
3	IC 480-682635/15	2.0	2.116529	25.0	285739.0	1.058265	Y
4	IC 480-682635/16	5.0	5.31469	25.0	262306.0	1.062938	Y
5	IC 480-682635/17	10.0	10.874271	25.0	258261.0	1.087427	Y
6	ICIS 480-682635/18	25.0	29.032292	25.0	262605.0	1.161292	Y
7	IC 480-682635/19	50.0	58.99227	25.0	259395.0	1.179845	Y
8	IC 480-682635/20	100.0	110.973122	25.0	258354.0	1.109731	Y



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Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

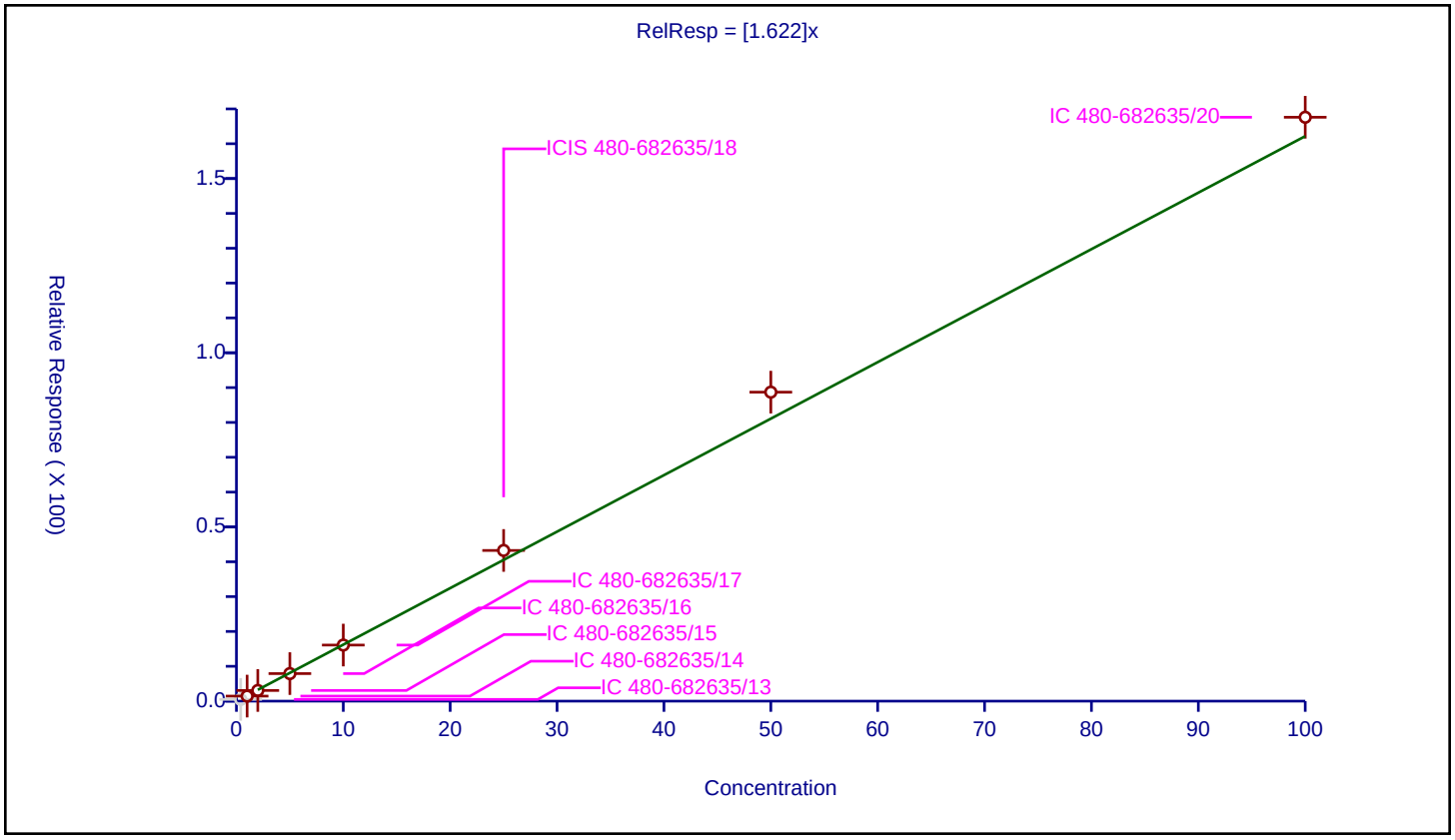
Curve Coefficients

Intercept:	0
Slope:	1.622

Error Coefficients

Standard Error:	825000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.497948	25.0	253842.0	1.244869	N
2	IC 480-682635/14	1.0	1.450865	25.0	274612.0	1.450865	Y
3	IC 480-682635/15	2.0	3.059435	25.0	285739.0	1.529718	Y
4	IC 480-682635/16	5.0	7.905557	25.0	262306.0	1.581111	Y
5	IC 480-682635/17	10.0	16.096023	25.0	258261.0	1.609602	Y
6	ICIS 480-682635/18	25.0	43.25546	25.0	262605.0	1.730218	Y
7	IC 480-682635/19	50.0	88.691667	25.0	259395.0	1.773833	Y
8	IC 480-682635/20	100.0	167.603076	25.0	258354.0	1.676031	Y



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Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

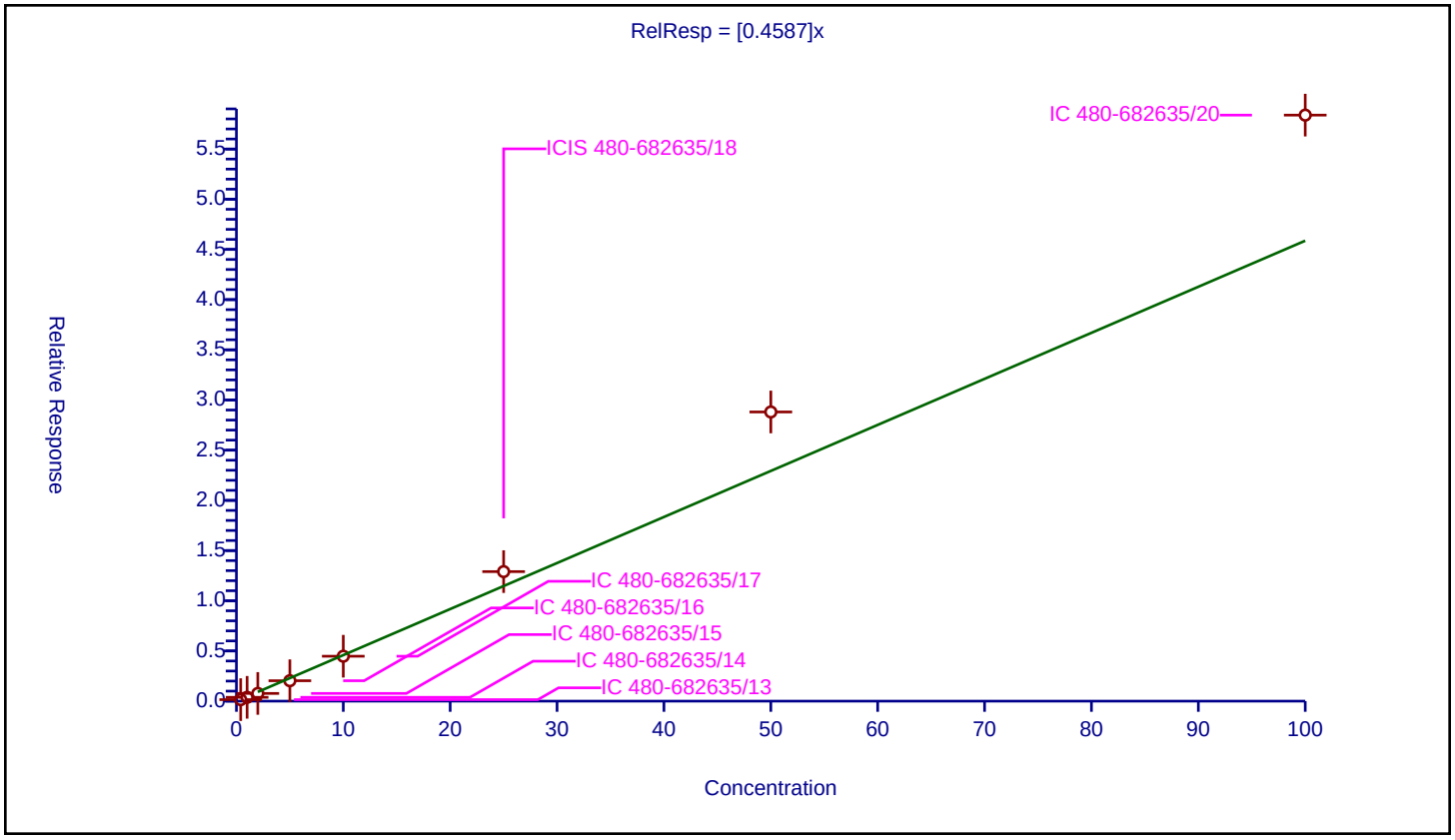
Curve Coefficients

Intercept:	0
Slope:	0.4587

Error Coefficients

Standard Error:	260000
Relative Standard Error:	19.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.150192	25.0	253842.0	0.37548	Y
2	IC 480-682635/14	1.0	0.379535	25.0	274612.0	0.379535	Y
3	IC 480-682635/15	2.0	0.767746	25.0	285739.0	0.383873	Y
4	IC 480-682635/16	5.0	2.033979	25.0	262306.0	0.406796	Y
5	IC 480-682635/17	10.0	4.474737	25.0	258261.0	0.447474	Y
6	ICIS 480-682635/18	25.0	12.90341	25.0	262605.0	0.516136	Y
7	IC 480-682635/19	50.0	28.806935	25.0	259395.0	0.576139	Y
8	IC 480-682635/20	100.0	58.379201	25.0	258354.0	0.583792	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

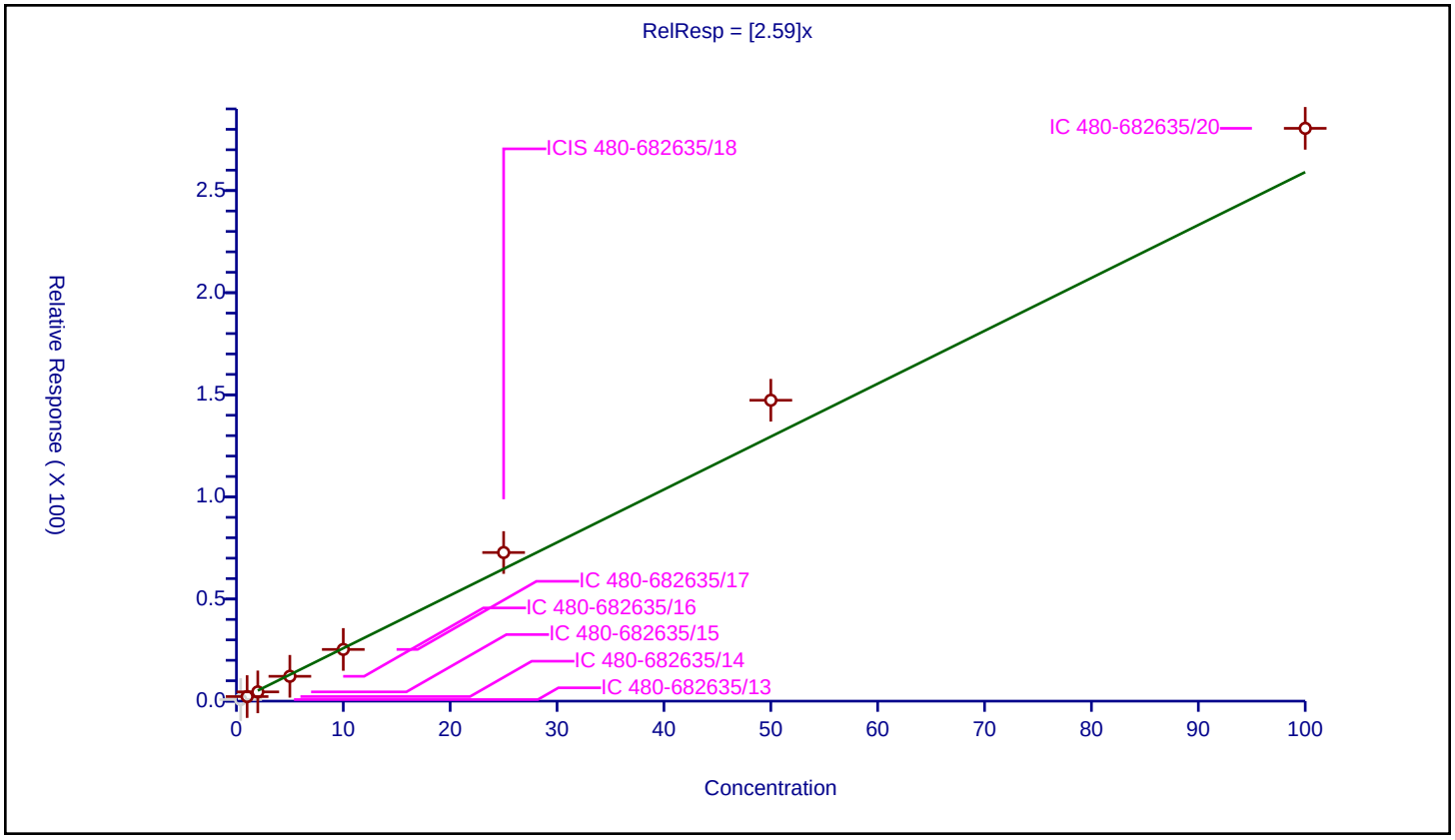
Curve Coefficients

Intercept:	0
Slope:	2.59

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	11.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.777432	25.0	272982.0	1.943581	N
2	IC 480-682635/14	1.0	2.238245	25.0	302793.0	2.238245	Y
3	IC 480-682635/15	2.0	4.532449	25.0	322938.0	2.266224	Y
4	IC 480-682635/16	5.0	12.167379	25.0	284934.0	2.433476	Y
5	IC 480-682635/17	10.0	25.320405	25.0	276135.0	2.53204	Y
6	ICIS 480-682635/18	25.0	72.779698	25.0	267396.0	2.911188	Y
7	IC 480-682635/19	50.0	147.333445	25.0	262211.0	2.946669	Y
8	IC 480-682635/20	100.0	280.473508	25.0	253375.0	2.804735	Y



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Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

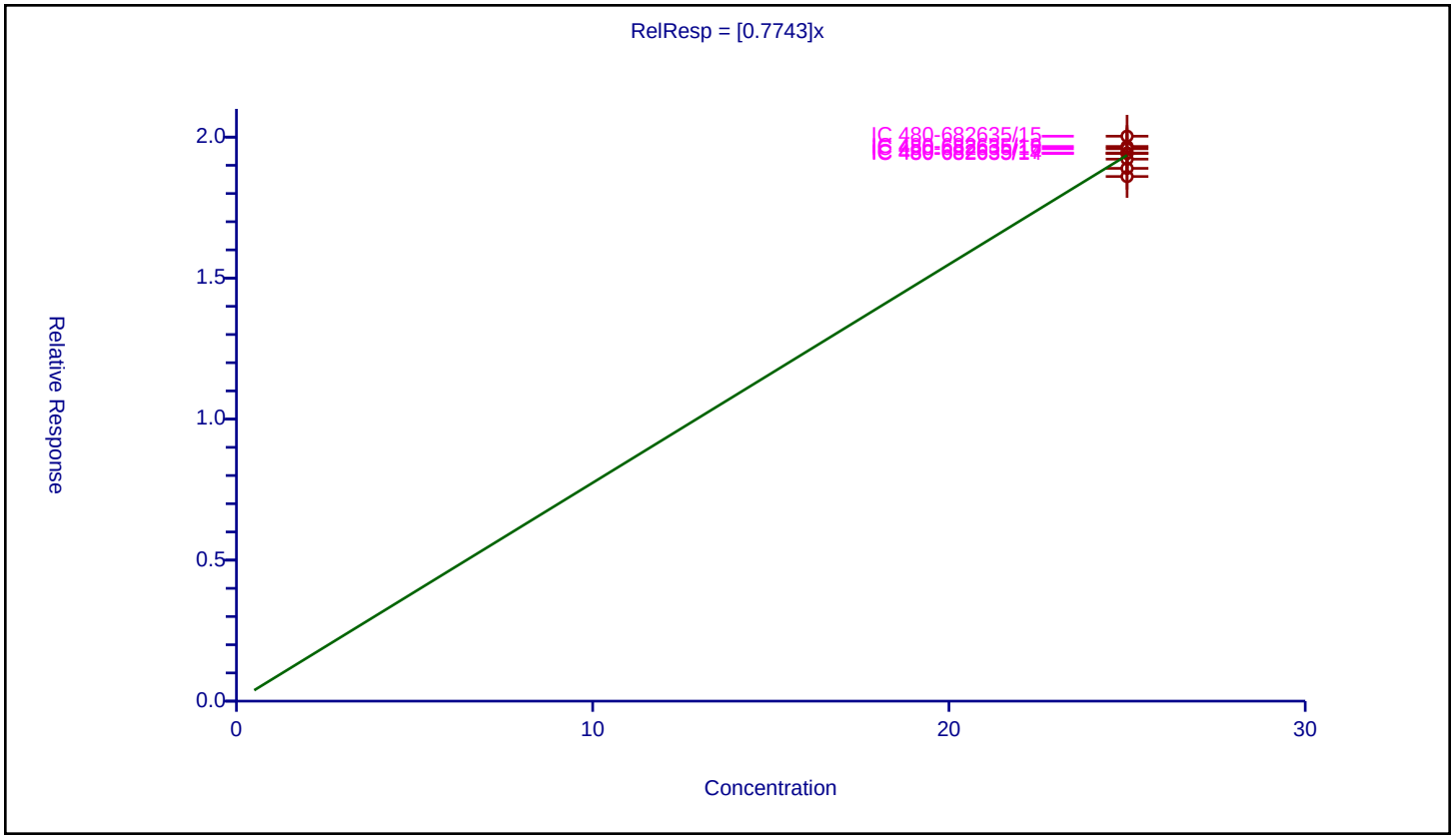
Curve Coefficients

Intercept:	0
Slope:	0.7743

Error Coefficients

Standard Error:	219000
Relative Standard Error:	2.3
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	25.0	18.601827	25.0	253842.0	0.744073	Y
2	IC 480-682635/14	25.0	19.417305	25.0	274612.0	0.776692	Y
3	IC 480-682635/15	25.0	20.031742	25.0	285739.0	0.80127	Y
4	IC 480-682635/16	25.0	19.587428	25.0	262306.0	0.783497	Y
5	IC 480-682635/17	25.0	19.436055	25.0	258261.0	0.777442	Y
6	ICIS 480-682635/18	25.0	18.891681	25.0	262605.0	0.755667	Y
7	IC 480-682635/19	25.0	19.667592	25.0	259395.0	0.786704	Y
8	IC 480-682635/20	25.0	19.218979	25.0	258354.0	0.768759	Y



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Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

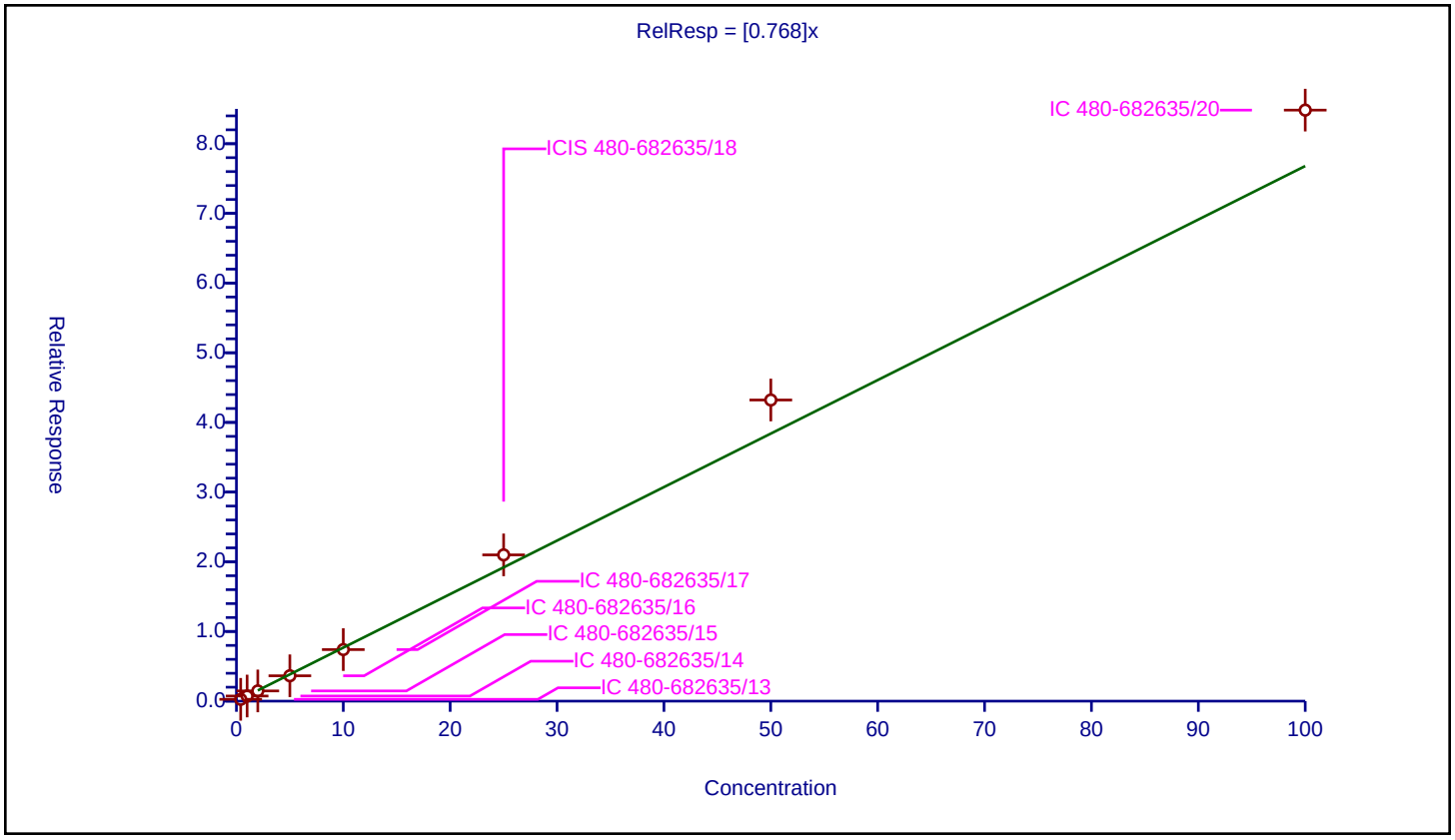
Curve Coefficients

Intercept:	0
Slope:	0.768

Error Coefficients

Standard Error:	379000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.262014	25.0	272982.0	0.655034	Y
2	IC 480-682635/14	1.0	0.73433	25.0	302793.0	0.73433	Y
3	IC 480-682635/15	2.0	1.467464	25.0	322938.0	0.733732	Y
4	IC 480-682635/16	5.0	3.641545	25.0	284934.0	0.728309	Y
5	IC 480-682635/17	10.0	7.400275	25.0	276135.0	0.740028	Y
6	ICIS 480-682635/18	25.0	20.989656	25.0	267396.0	0.839586	Y
7	IC 480-682635/19	50.0	43.21882	25.0	262211.0	0.864376	Y
8	IC 480-682635/20	100.0	84.825456	25.0	253375.0	0.848255	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

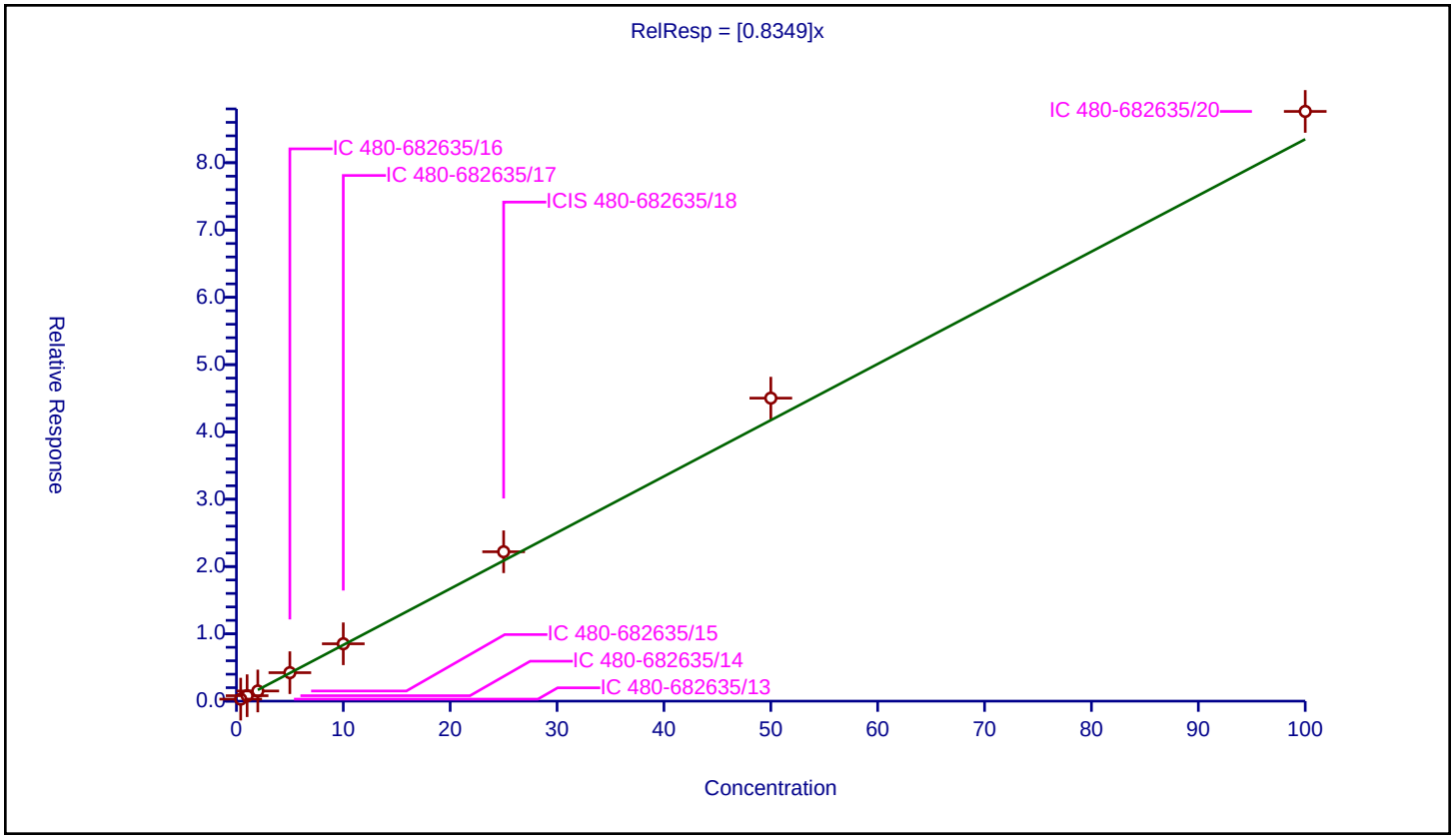
Curve Coefficients

Intercept:	0
Slope:	0.8349

Error Coefficients

Standard Error:	393000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.300386	25.0	272982.0	0.750965	Y
2	IC 480-682635/14	1.0	0.810372	25.0	302793.0	0.810372	Y
3	IC 480-682635/15	2.0	1.511049	25.0	322938.0	0.755524	Y
4	IC 480-682635/16	5.0	4.22747	25.0	284934.0	0.845494	Y
5	IC 480-682635/17	10.0	8.524273	25.0	276135.0	0.852427	Y
6	ICIS 480-682635/18	25.0	22.19461	25.0	267396.0	0.887784	Y
7	IC 480-682635/19	50.0	45.020995	25.0	262211.0	0.90042	Y
8	IC 480-682635/20	100.0	87.625851	25.0	253375.0	0.876259	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

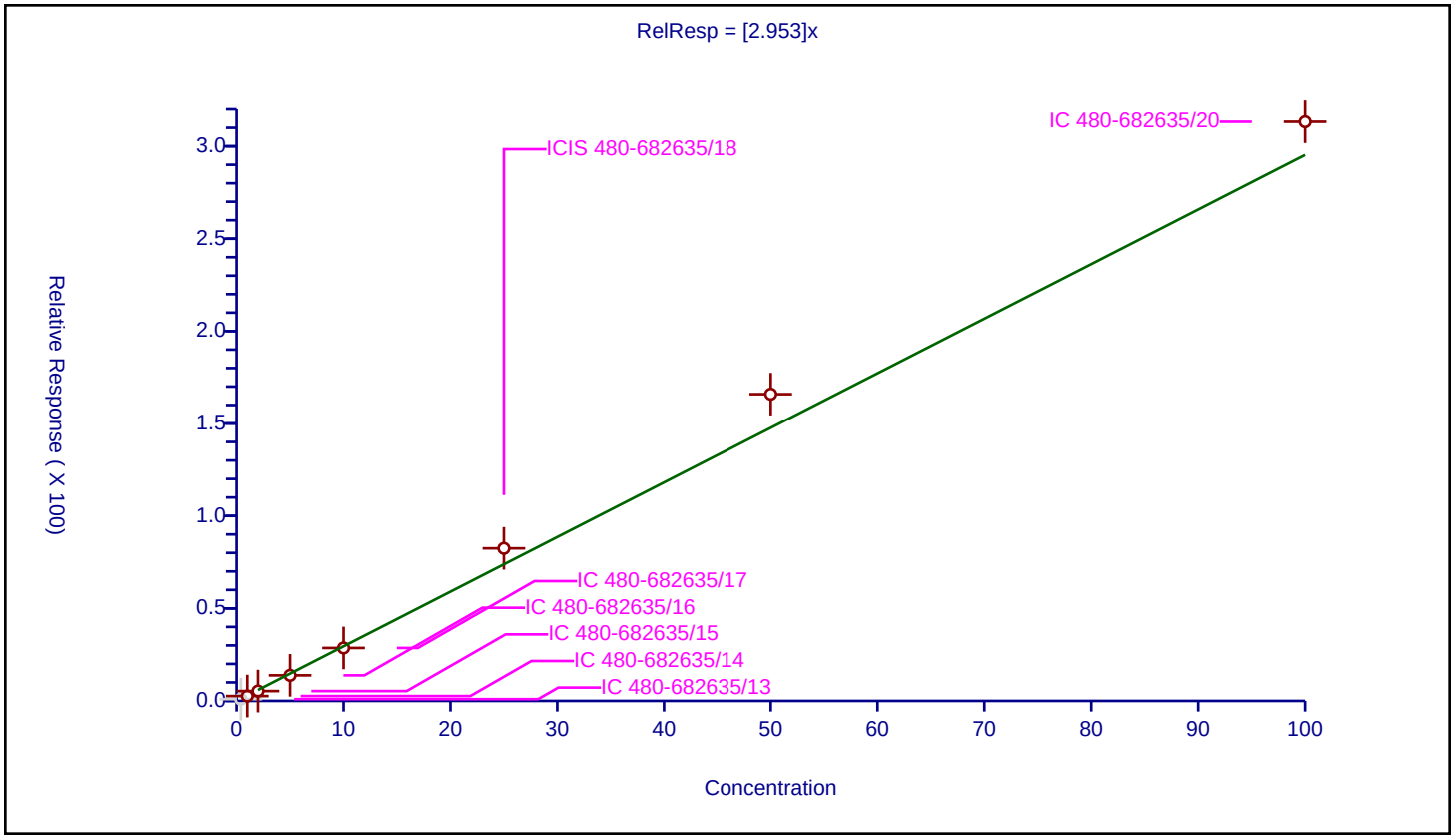
Curve Coefficients

Intercept:	0
Slope:	2.953

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	9.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.950063	25.0	272982.0	2.375157	N
2	IC 480-682635/14	1.0	2.63084	25.0	302793.0	2.63084	Y
3	IC 480-682635/15	2.0	5.323855	25.0	322938.0	2.661927	Y
4	IC 480-682635/16	5.0	13.8275	25.0	284934.0	2.7655	Y
5	IC 480-682635/17	10.0	28.636084	25.0	276135.0	2.863608	Y
6	ICIS 480-682635/18	25.0	82.479917	25.0	267396.0	3.299197	Y
7	IC 480-682635/19	50.0	165.895691	25.0	262211.0	3.317914	Y
8	IC 480-682635/20	100.0	313.279428	25.0	253375.0	3.132794	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

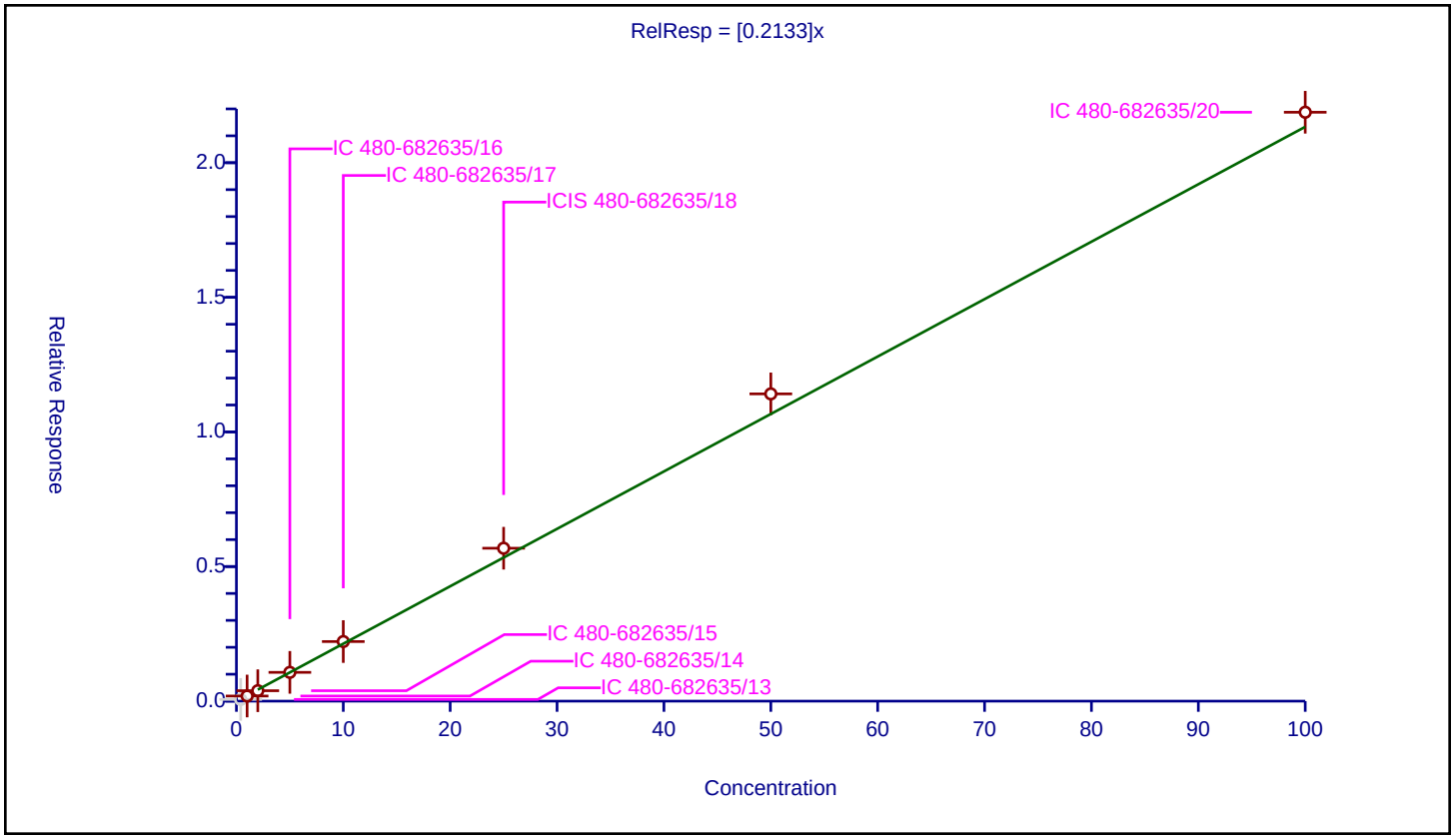
Curve Coefficients

Intercept:	0
Slope:	0.2133

Error Coefficients

Standard Error:	106000
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.063557	25.0	272982.0	0.158893	N
2	IC 480-682635/14	1.0	0.190146	25.0	302793.0	0.190146	Y
3	IC 480-682635/15	2.0	0.387458	25.0	322938.0	0.193729	Y
4	IC 480-682635/16	5.0	1.069107	25.0	284934.0	0.213821	Y
5	IC 480-682635/17	10.0	2.213863	25.0	276135.0	0.221386	Y
6	ICIS 480-682635/18	25.0	5.679965	25.0	267396.0	0.227199	Y
7	IC 480-682635/19	50.0	11.413995	25.0	262211.0	0.22828	Y
8	IC 480-682635/20	100.0	21.875777	25.0	253375.0	0.218758	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

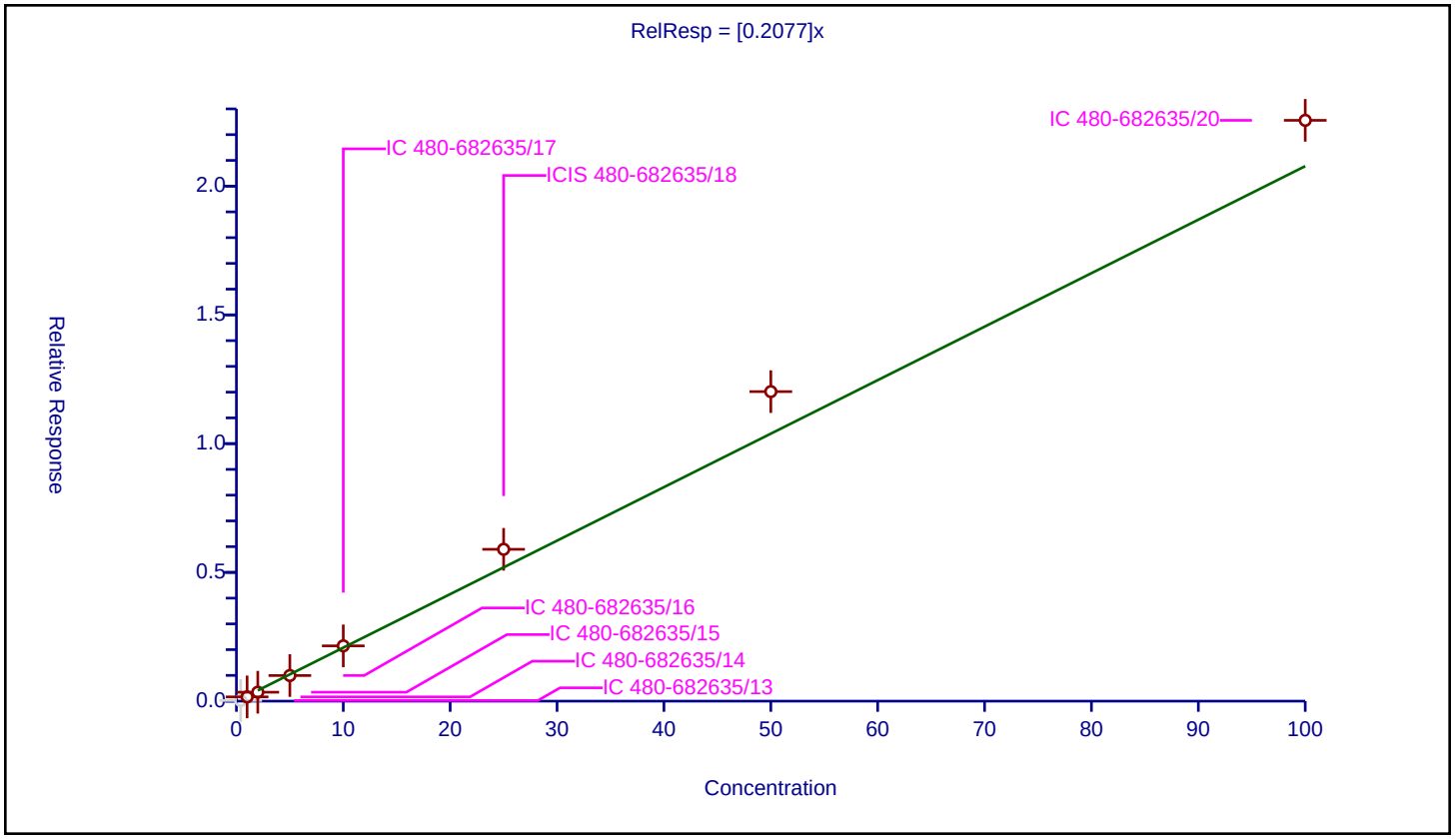
Curve Coefficients

Intercept:	0
Slope:	0.2077

Error Coefficients

Standard Error:	110000
Relative Standard Error:	14.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.025368	25.0	272982.0	0.06342	N
2	IC 480-682635/14	1.0	0.165212	25.0	302793.0	0.165212	Y
3	IC 480-682635/15	2.0	0.347435	25.0	322938.0	0.173718	Y
4	IC 480-682635/16	5.0	0.99409	25.0	284934.0	0.198818	Y
5	IC 480-682635/17	10.0	2.146595	25.0	276135.0	0.214659	Y
6	ICIS 480-682635/18	25.0	5.896311	25.0	267396.0	0.235852	Y
7	IC 480-682635/19	50.0	12.020663	25.0	262211.0	0.240413	Y
8	IC 480-682635/20	100.0	22.555698	25.0	253375.0	0.225557	Y



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Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

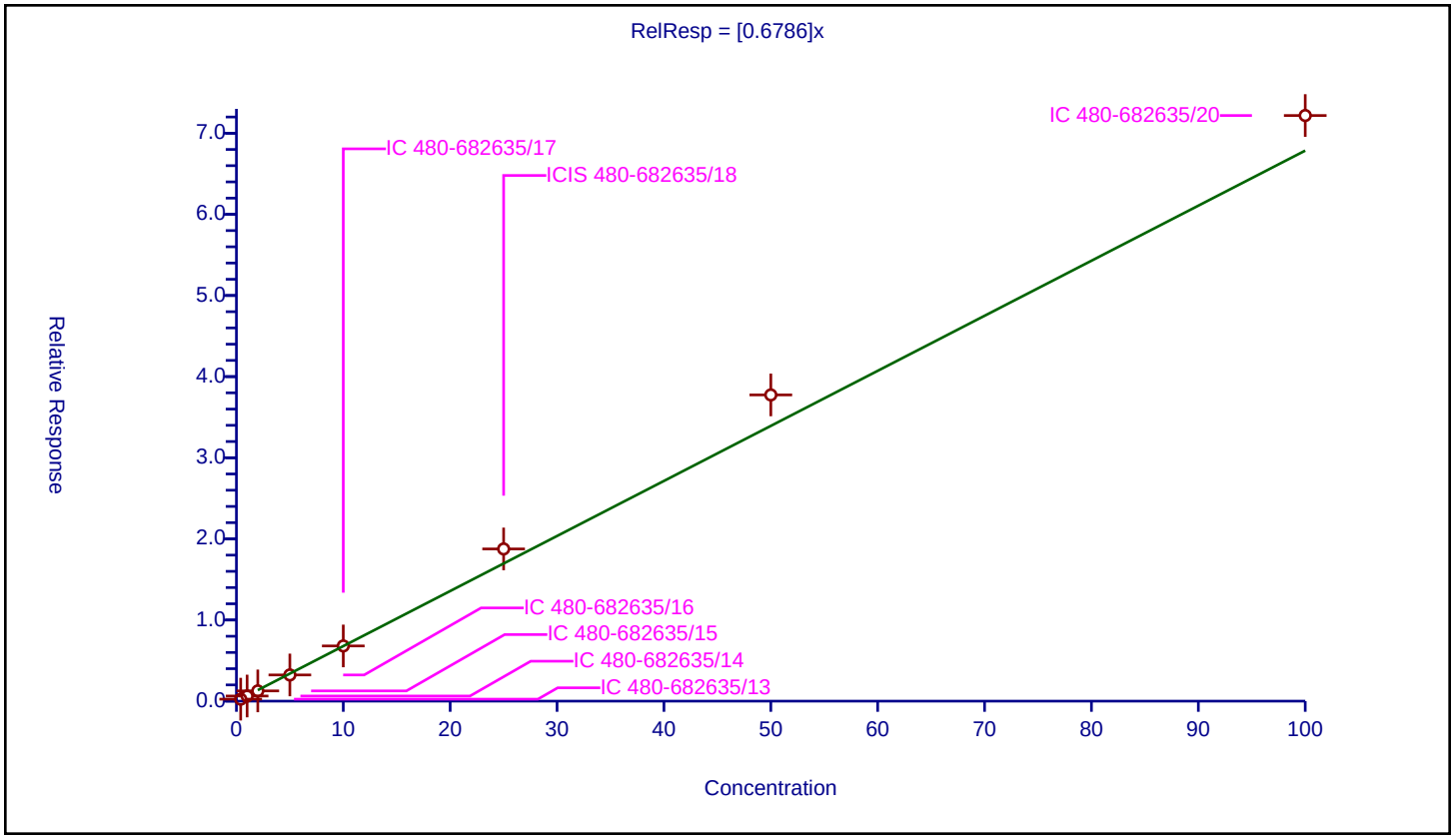
Curve Coefficients

Intercept:	0
Slope:	0.6786

Error Coefficients

Standard Error:	325000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.244888	25.0	272982.0	0.61222	Y
2	IC 480-682635/14	1.0	0.632363	25.0	302793.0	0.632363	Y
3	IC 480-682635/15	2.0	1.261852	25.0	322938.0	0.630926	Y
4	IC 480-682635/16	5.0	3.227502	25.0	284934.0	0.6455	Y
5	IC 480-682635/17	10.0	6.803828	25.0	276135.0	0.680383	Y
6	ICIS 480-682635/18	25.0	18.760004	25.0	267396.0	0.7504	Y
7	IC 480-682635/19	50.0	37.74384	25.0	262211.0	0.754877	Y
8	IC 480-682635/20	100.0	72.182733	25.0	253375.0	0.721827	Y



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Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

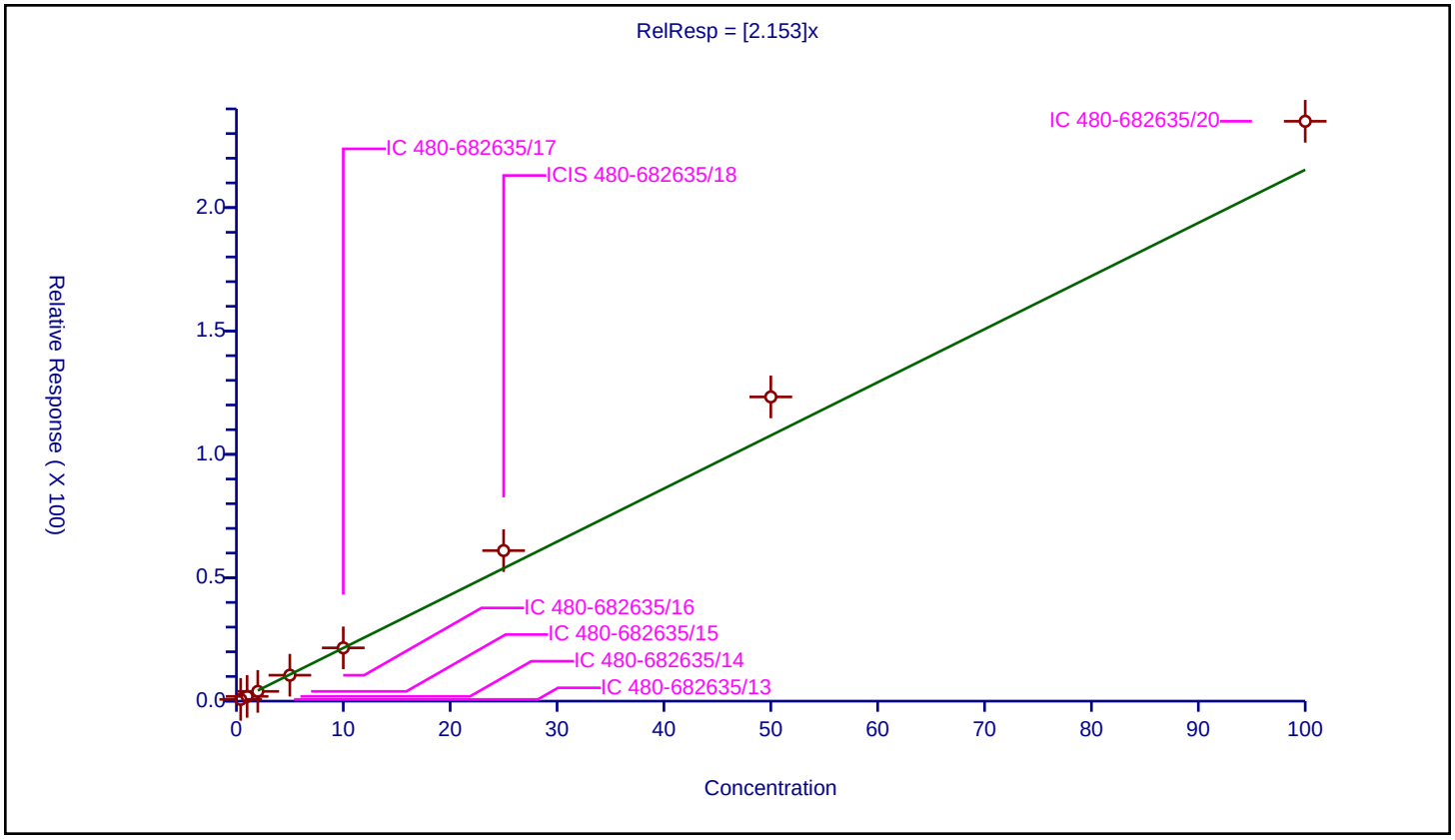
Curve Coefficients

Intercept:	0
Slope:	2.153

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	11.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.719828	25.0	272982.0	1.799569	Y
2	IC 480-682635/14	1.0	1.929619	25.0	302793.0	1.929619	Y
3	IC 480-682635/15	2.0	3.959351	25.0	322938.0	1.979676	Y
4	IC 480-682635/16	5.0	10.510943	25.0	284934.0	2.102189	Y
5	IC 480-682635/17	10.0	21.595958	25.0	276135.0	2.159596	Y
6	ICIS 480-682635/18	25.0	61.01129	25.0	267396.0	2.440452	Y
7	IC 480-682635/19	50.0	123.289069	25.0	262211.0	2.465781	Y
8	IC 480-682635/20	100.0	234.986482	25.0	253375.0	2.349865	Y



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Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

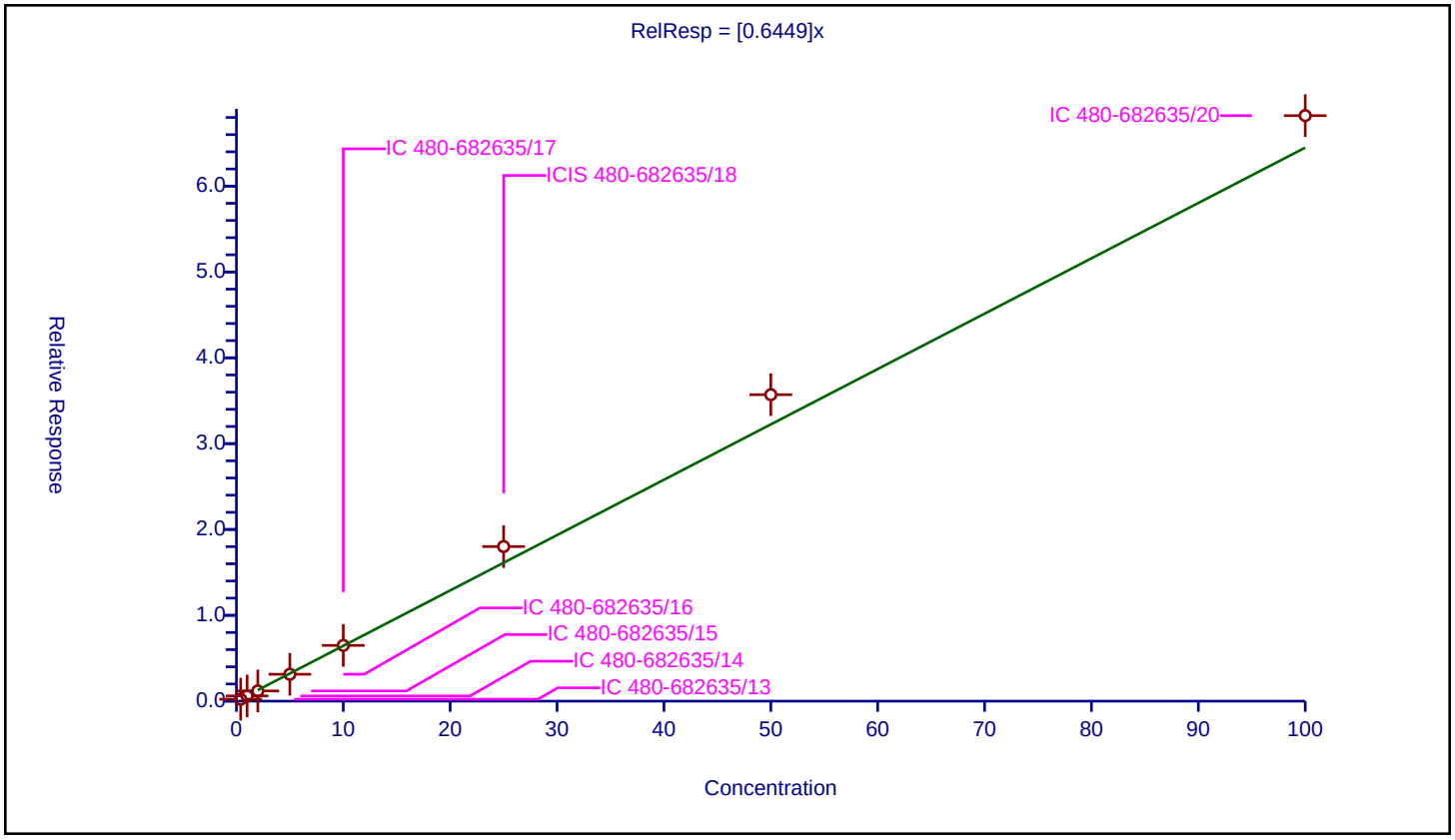
Curve Coefficients

Intercept:	0
Slope:	0.6449

Error Coefficients

Standard Error:	308000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.225381	25.0	272982.0	0.563453	Y
2	IC 480-682635/14	1.0	0.607593	25.0	302793.0	0.607593	Y
3	IC 480-682635/15	2.0	1.190399	25.0	322938.0	0.595199	Y
4	IC 480-682635/16	5.0	3.132743	25.0	284934.0	0.626549	Y
5	IC 480-682635/17	10.0	6.493563	25.0	276135.0	0.649356	Y
6	ICIS 480-682635/18	25.0	18.009619	25.0	267396.0	0.720385	Y
7	IC 480-682635/19	50.0	35.706073	25.0	262211.0	0.714121	Y
8	IC 480-682635/20	100.0	68.215392	25.0	253375.0	0.682154	Y



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Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

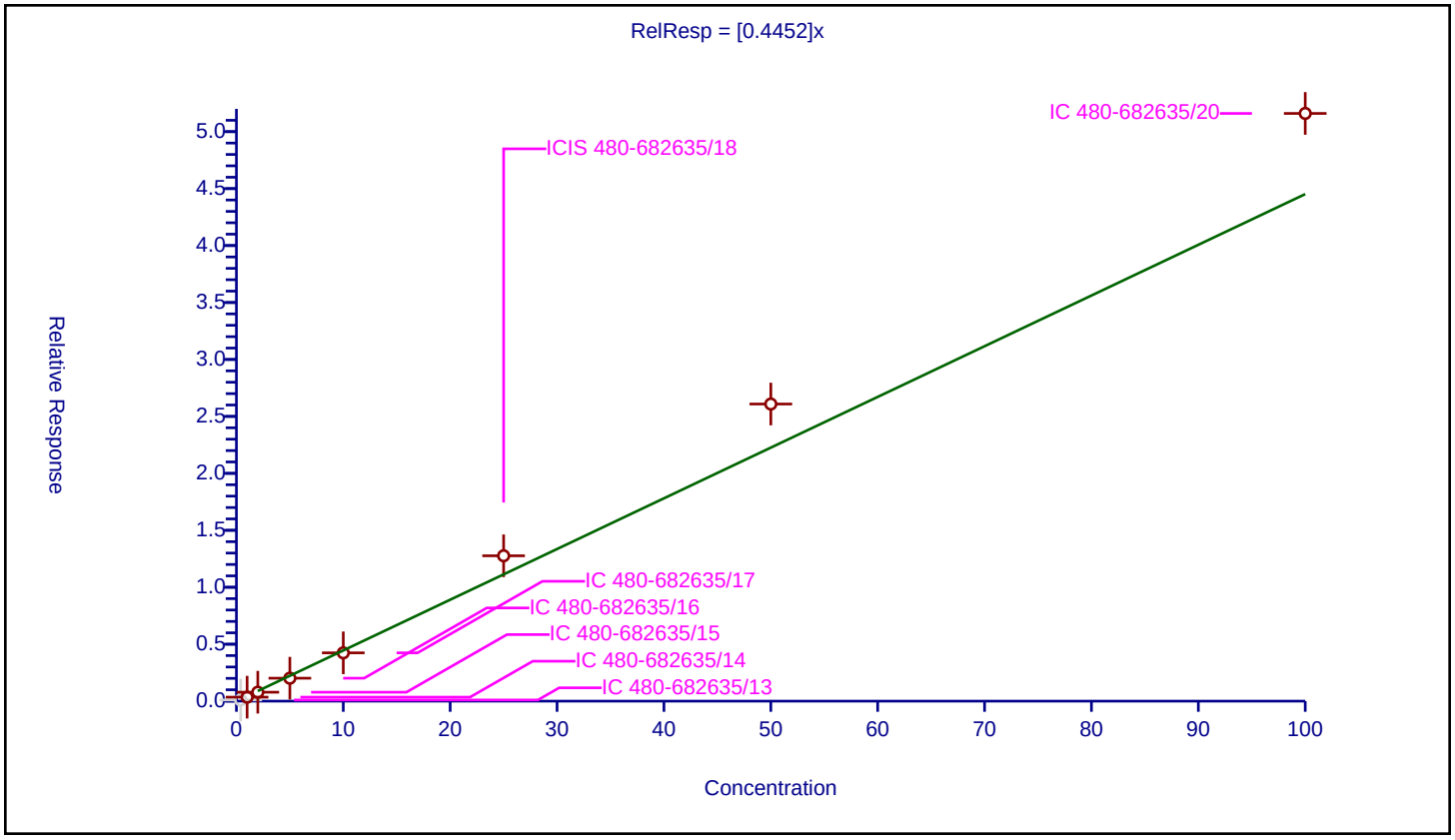
Curve Coefficients

Intercept:	0
Slope:	0.4452

Error Coefficients

Standard Error:	248000
Relative Standard Error:	15.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.100831	25.0	272982.0	0.252077	N
2	IC 480-682635/14	1.0	0.348836	25.0	302793.0	0.348836	Y
3	IC 480-682635/15	2.0	0.784284	25.0	322938.0	0.392142	Y
4	IC 480-682635/16	5.0	2.014677	25.0	284934.0	0.402935	Y
5	IC 480-682635/17	10.0	4.241042	25.0	276135.0	0.424104	Y
6	ICIS 480-682635/18	25.0	12.762345	25.0	267396.0	0.510494	Y
7	IC 480-682635/19	50.0	26.087006	25.0	262211.0	0.52174	Y
8	IC 480-682635/20	100.0	51.600592	25.0	253375.0	0.516006	Y



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Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

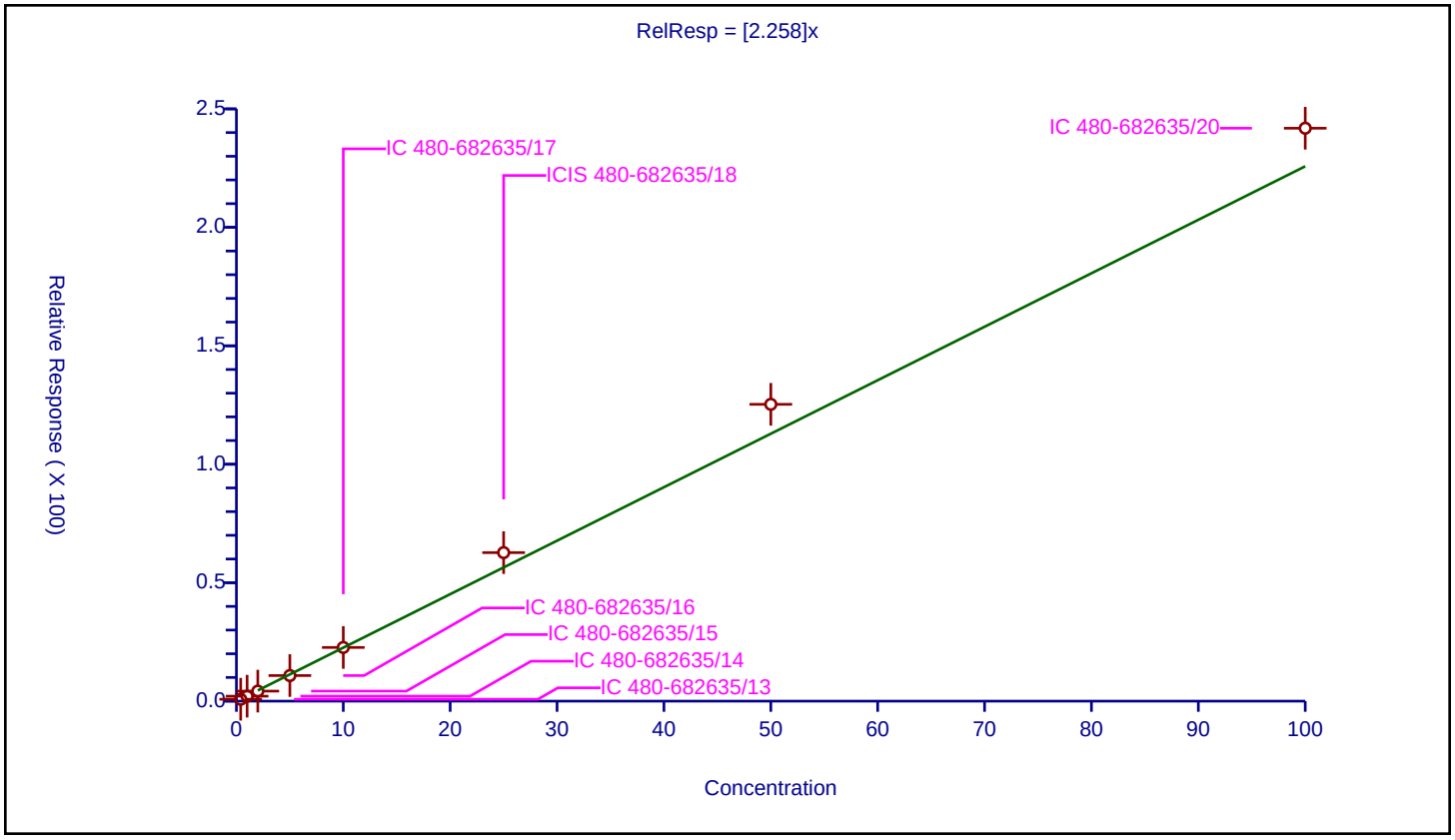
Curve Coefficients

Intercept:	0
Slope:	2.258

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.795107	25.0	272982.0	1.987768	Y
2	IC 480-682635/14	1.0	2.098628	25.0	302793.0	2.098628	Y
3	IC 480-682635/15	2.0	4.231385	25.0	322938.0	2.115692	Y
4	IC 480-682635/16	5.0	10.804169	25.0	284934.0	2.160834	Y
5	IC 480-682635/17	10.0	22.657667	25.0	276135.0	2.265767	Y
6	ICIS 480-682635/18	25.0	62.696992	25.0	267396.0	2.50788	Y
7	IC 480-682635/19	50.0	125.290796	25.0	262211.0	2.505816	Y
8	IC 480-682635/20	100.0	241.838086	25.0	253375.0	2.418381	Y



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Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

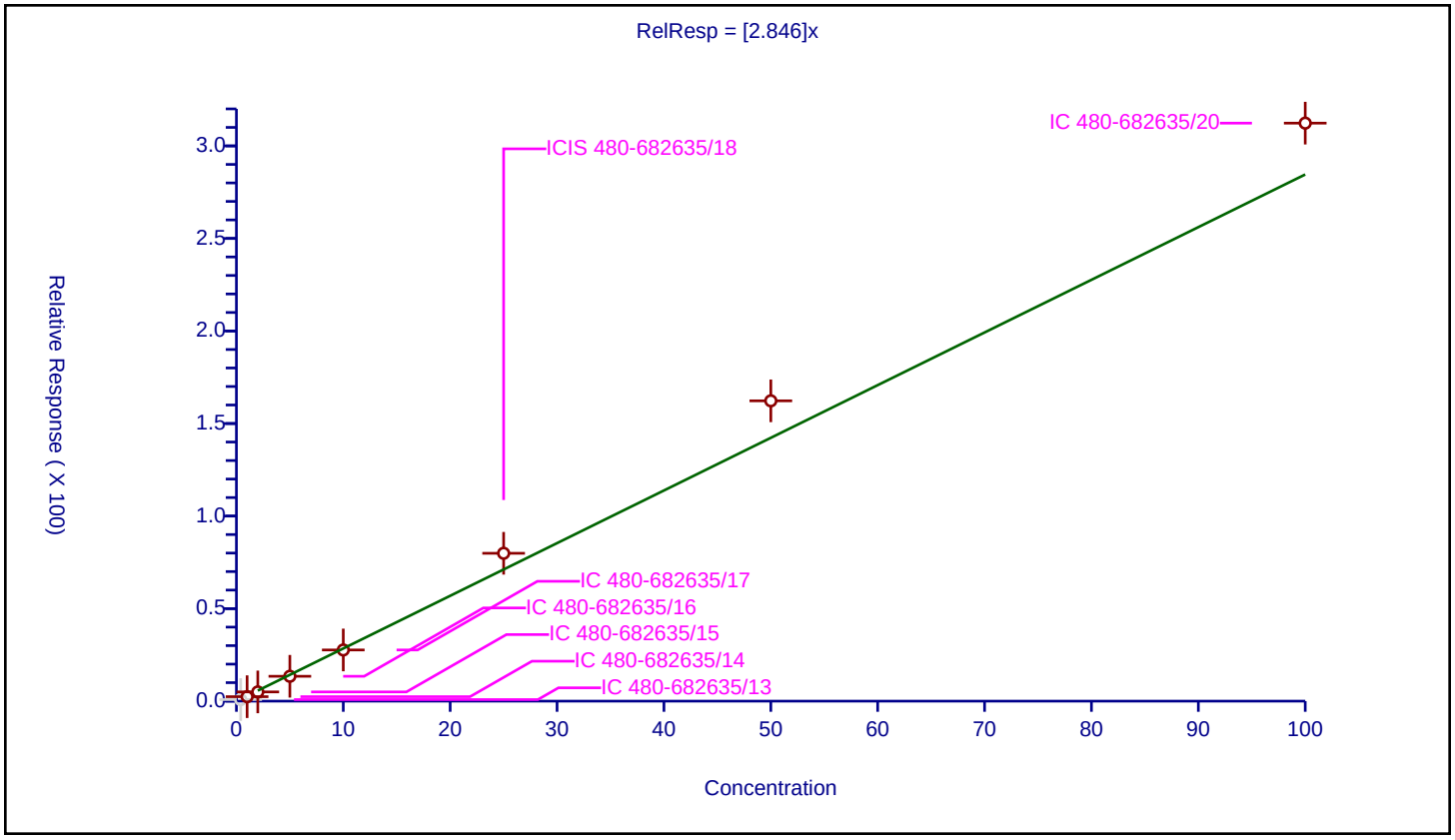
Curve Coefficients

Intercept:	0
Slope:	2.846

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	12.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.845385	25.0	272982.0	2.113464	N
2	IC 480-682635/14	1.0	2.405356	25.0	302793.0	2.405356	Y
3	IC 480-682635/15	2.0	4.992986	25.0	322938.0	2.496493	Y
4	IC 480-682635/16	5.0	13.439253	25.0	284934.0	2.687851	Y
5	IC 480-682635/17	10.0	27.652326	25.0	276135.0	2.765233	Y
6	ICIS 480-682635/18	25.0	79.895735	25.0	267396.0	3.195829	Y
7	IC 480-682635/19	50.0	162.263978	25.0	262211.0	3.24528	Y
8	IC 480-682635/20	100.0	312.295215	25.0	253375.0	3.122952	Y



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Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

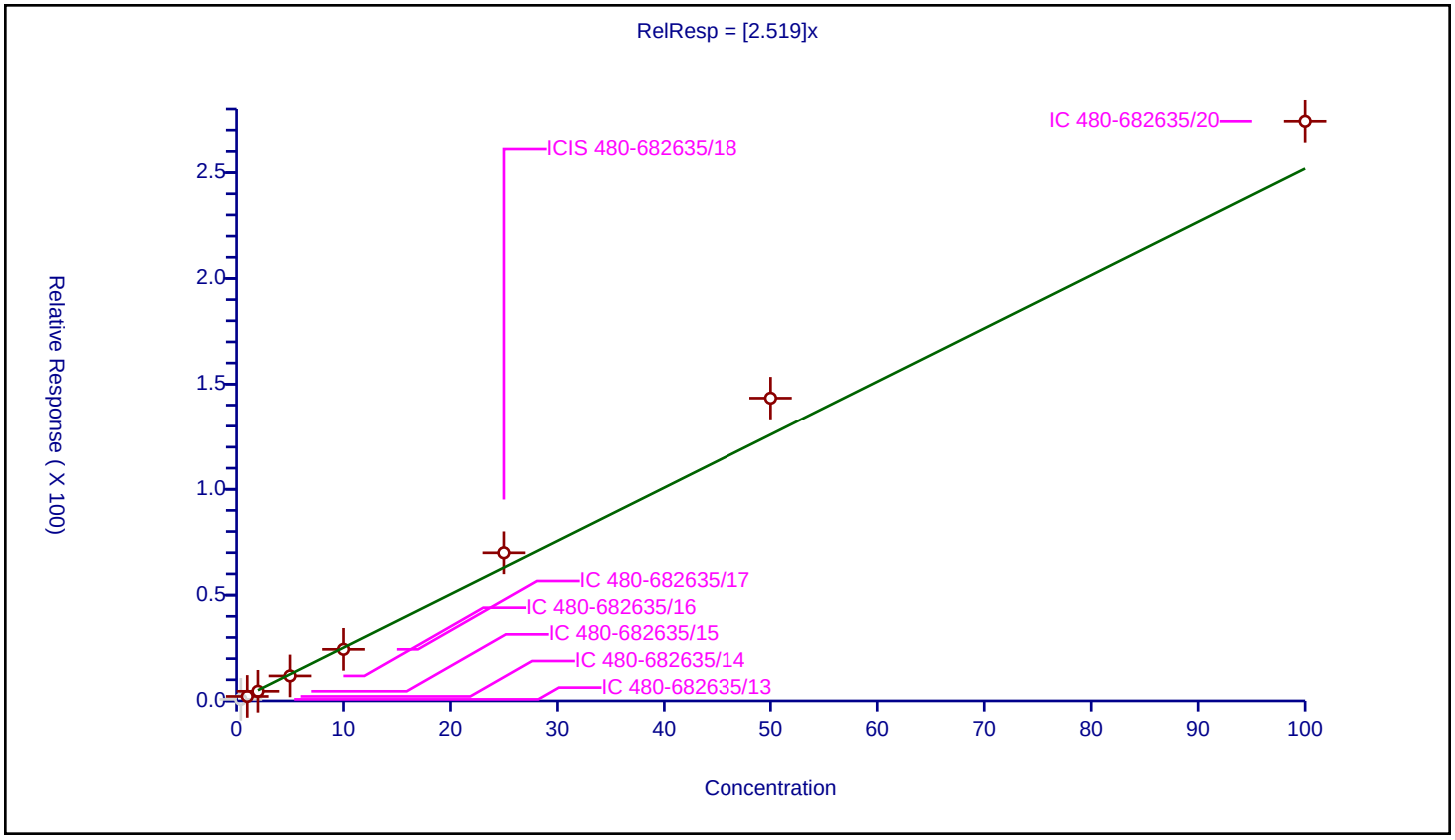
Curve Coefficients

Intercept:	0
Slope:	2.519

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	11.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.74721	25.0	272982.0	1.868026	N
2	IC 480-682635/14	1.0	2.137516	25.0	302793.0	2.137516	Y
3	IC 480-682635/15	2.0	4.569917	25.0	322938.0	2.284959	Y
4	IC 480-682635/16	5.0	11.832389	25.0	284934.0	2.366478	Y
5	IC 480-682635/17	10.0	24.392869	25.0	276135.0	2.439287	Y
6	ICIS 480-682635/18	25.0	69.962901	25.0	267396.0	2.798516	Y
7	IC 480-682635/19	50.0	143.327225	25.0	262211.0	2.866545	Y
8	IC 480-682635/20	100.0	274.195165	25.0	253375.0	2.741952	Y



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Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

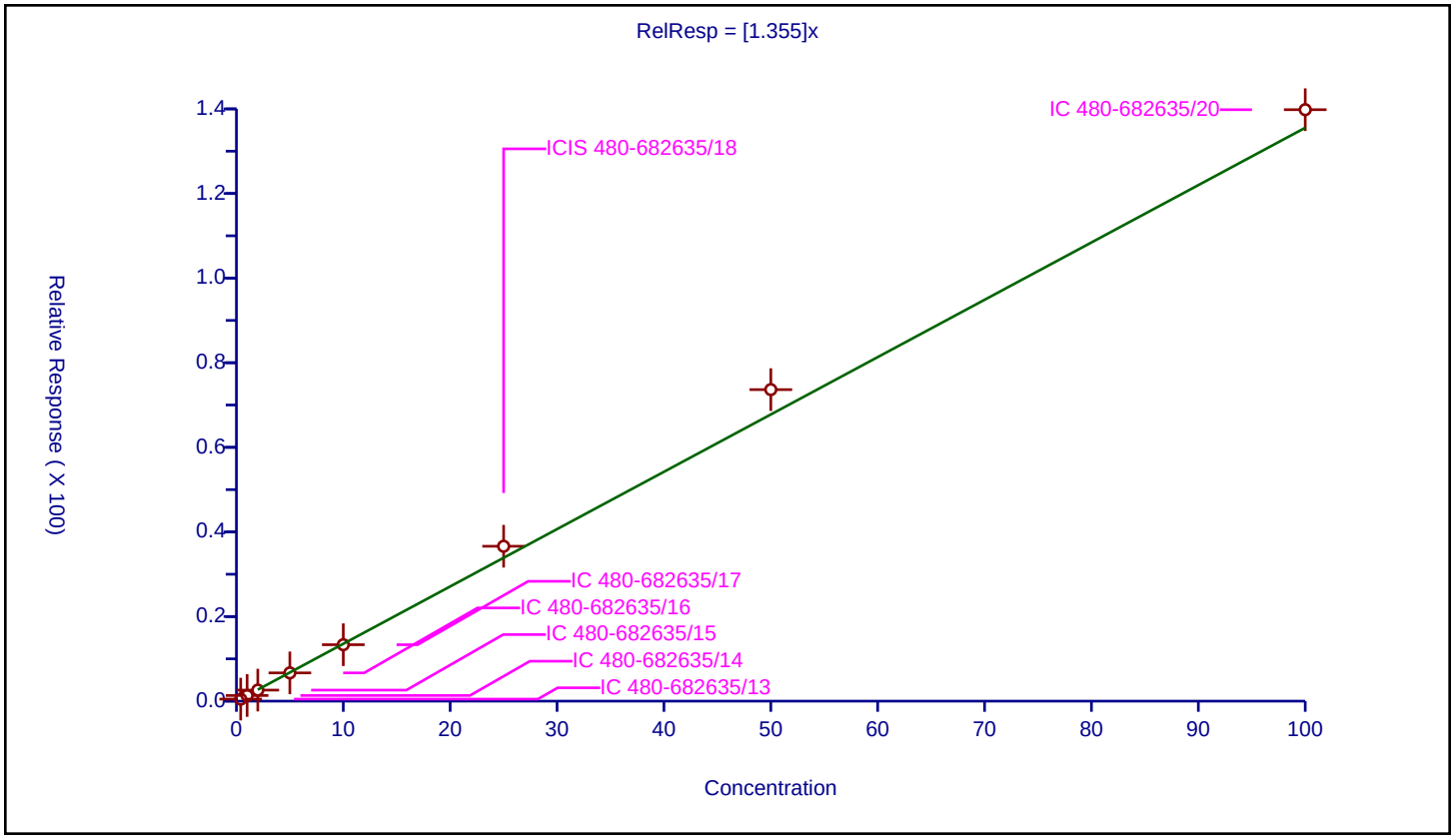
Curve Coefficients

Intercept:	0
Slope:	1.355

Error Coefficients

Standard Error:	631000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.478969	25.0	272982.0	1.197423	Y
2	IC 480-682635/14	1.0	1.333997	25.0	302793.0	1.333997	Y
3	IC 480-682635/15	2.0	2.611879	25.0	322938.0	1.30594	Y
4	IC 480-682635/16	5.0	6.678476	25.0	284934.0	1.335695	Y
5	IC 480-682635/17	10.0	13.341029	25.0	276135.0	1.334103	Y
6	ICIS 480-682635/18	25.0	36.612646	25.0	267396.0	1.464506	Y
7	IC 480-682635/19	50.0	73.641743	25.0	262211.0	1.472835	Y
8	IC 480-682635/20	100.0	139.809867	25.0	253375.0	1.398099	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

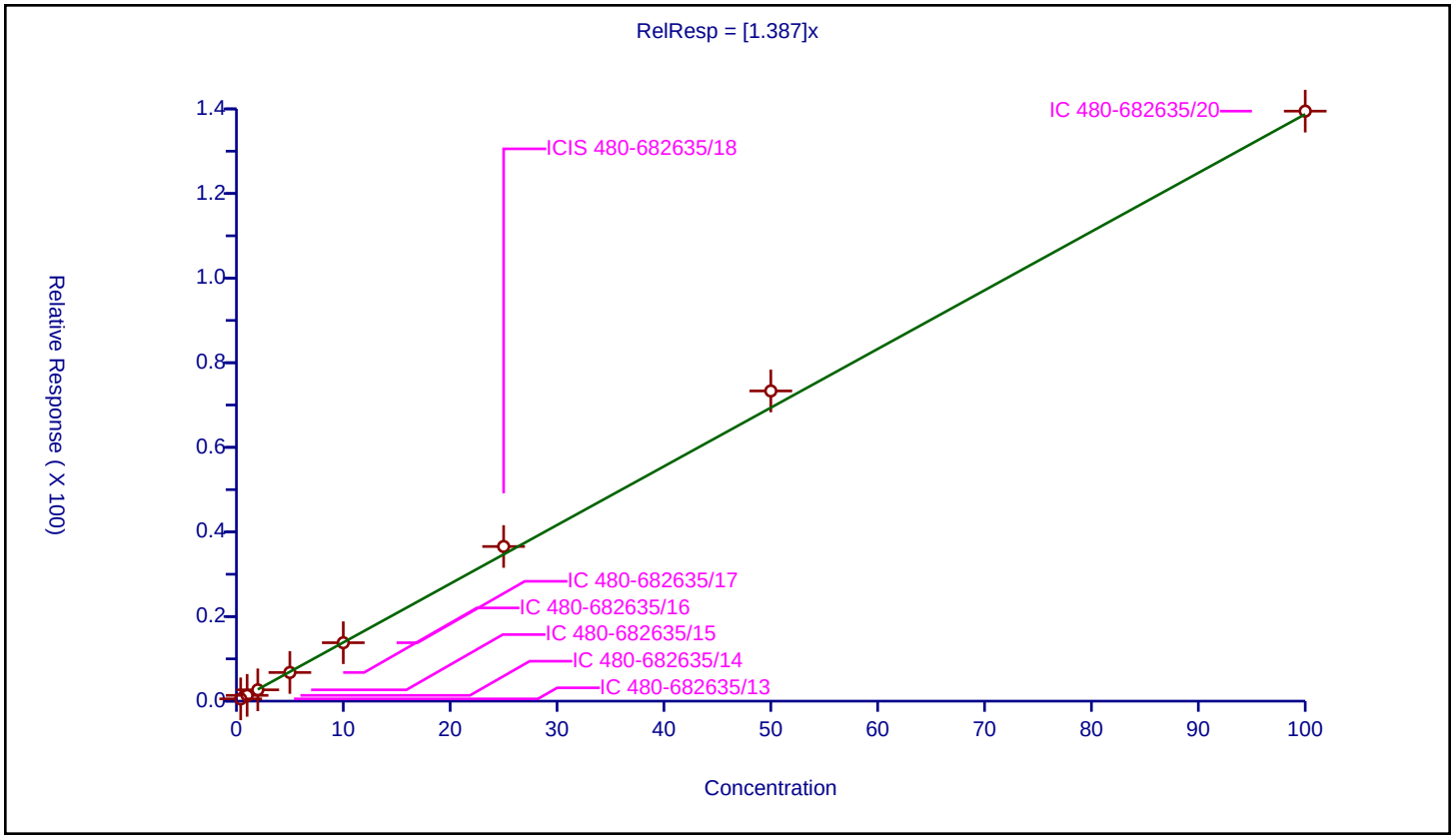
Curve Coefficients

Intercept:	0
Slope:	1.387

Error Coefficients

Standard Error:	629000
Relative Standard Error:	3.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.537856	25.0	272982.0	1.34464	Y
2	IC 480-682635/14	1.0	1.360996	25.0	302793.0	1.360996	Y
3	IC 480-682635/15	2.0	2.670714	25.0	322938.0	1.335357	Y
4	IC 480-682635/16	5.0	6.771568	25.0	284934.0	1.354314	Y
5	IC 480-682635/17	10.0	13.807467	25.0	276135.0	1.380747	Y
6	ICIS 480-682635/18	25.0	36.555147	25.0	267396.0	1.462206	Y
7	IC 480-682635/19	50.0	73.322916	25.0	262211.0	1.466458	Y
8	IC 480-682635/20	100.0	139.469956	25.0	253375.0	1.3947	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

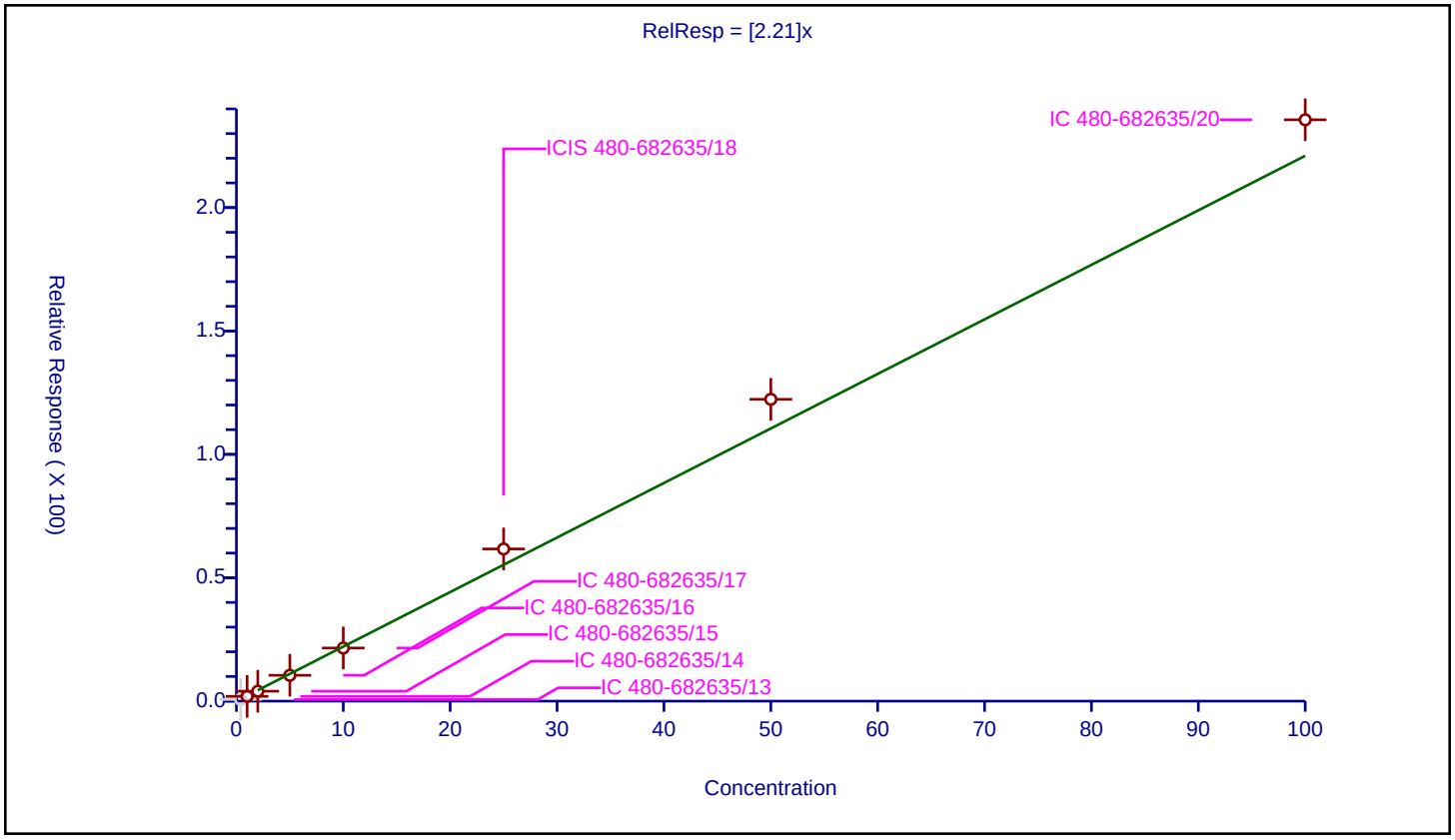
Curve Coefficients

Intercept:	0
Slope:	2.21

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	9.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.688415	25.0	272982.0	1.721038	N
2	IC 480-682635/14	1.0	1.939526	25.0	302793.0	1.939526	Y
3	IC 480-682635/15	2.0	4.026624	25.0	322938.0	2.013312	Y
4	IC 480-682635/16	5.0	10.475759	25.0	284934.0	2.095152	Y
5	IC 480-682635/17	10.0	21.522172	25.0	276135.0	2.152217	Y
6	ICIS 480-682635/18	25.0	61.676409	25.0	267396.0	2.467056	Y
7	IC 480-682635/19	50.0	122.307512	25.0	262211.0	2.44615	Y
8	IC 480-682635/20	100.0	235.584904	25.0	253375.0	2.355849	Y



10/13/2023
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Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

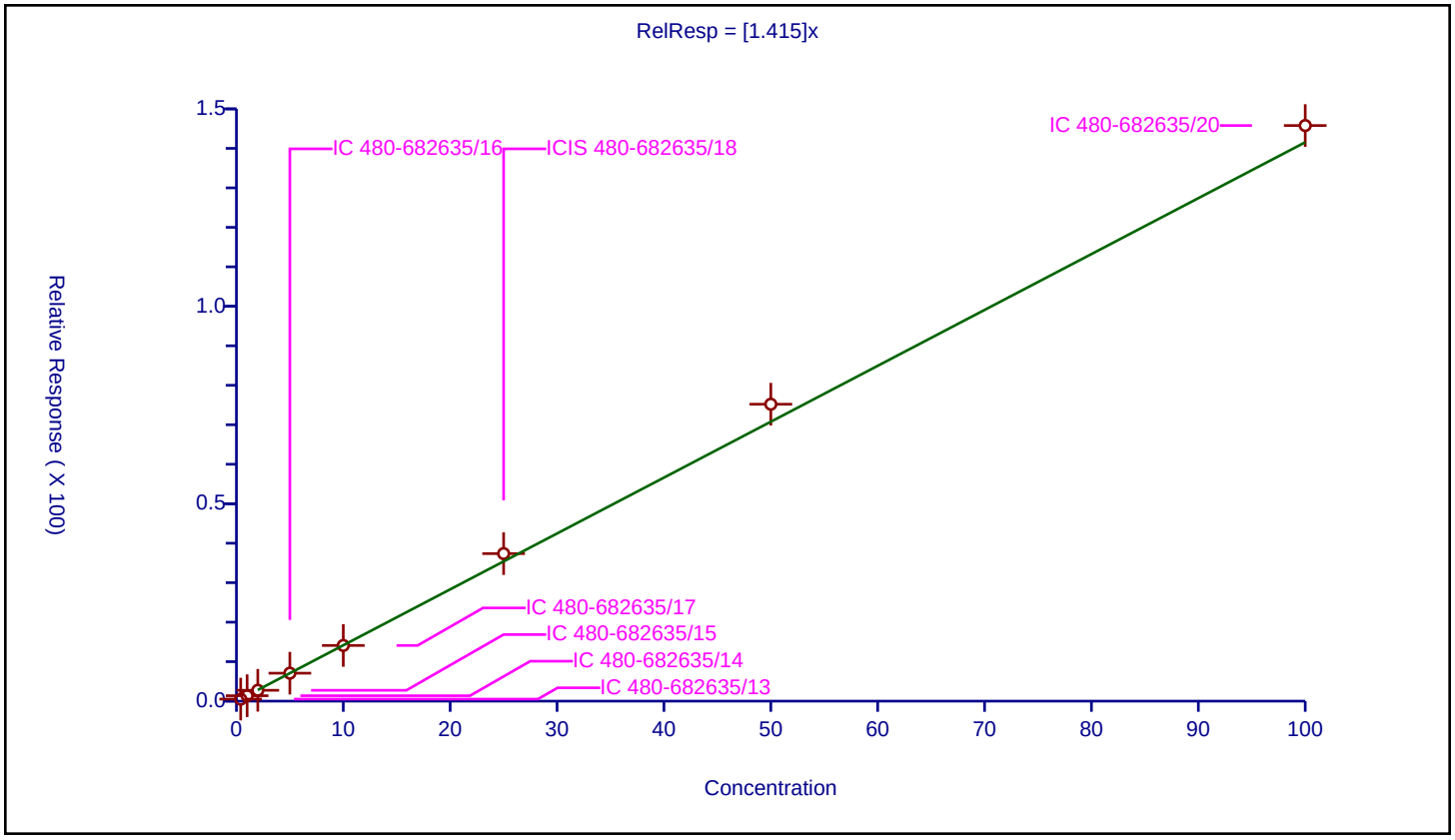
Curve Coefficients

Intercept:	0
Slope:	1.415

Error Coefficients

Standard Error:	654000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.516609	25.0	272982.0	1.291523	Y
2	IC 480-682635/14	1.0	1.373463	25.0	302793.0	1.373463	Y
3	IC 480-682635/15	2.0	2.749909	25.0	322938.0	1.374954	Y
4	IC 480-682635/16	5.0	7.081728	25.0	284934.0	1.416346	Y
5	IC 480-682635/17	10.0	14.103428	25.0	276135.0	1.410343	Y
6	ICIS 480-682635/18	25.0	37.367332	25.0	267396.0	1.494693	Y
7	IC 480-682635/19	50.0	75.203653	25.0	262211.0	1.504073	Y
8	IC 480-682635/20	100.0	145.781944	25.0	253375.0	1.457819	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

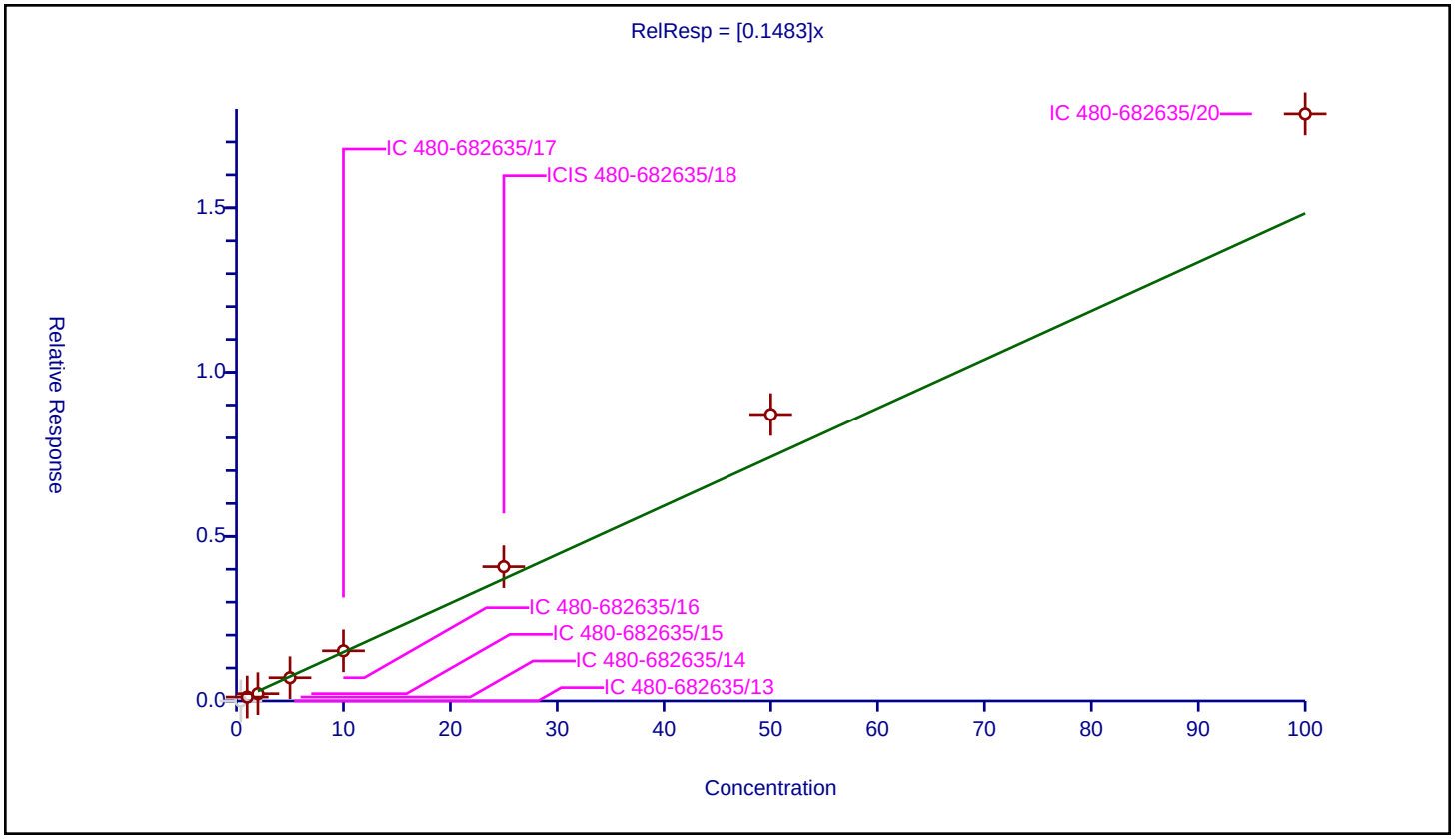
Curve Coefficients

Intercept:	0
Slope:	0.1483

Error Coefficients

Standard Error:	85000
Relative Standard Error:	17.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.0	25.0	272982.0	0.0	N
2	IC 480-682635/14	1.0	0.118315	25.0	302793.0	0.118315	Y
3	IC 480-682635/15	2.0	0.221172	25.0	322938.0	0.110586	Y
4	IC 480-682635/16	5.0	0.705777	25.0	284934.0	0.141155	Y
5	IC 480-682635/17	10.0	1.523259	25.0	276135.0	0.152326	Y
6	ICIS 480-682635/18	25.0	4.079063	25.0	267396.0	0.163163	Y
7	IC 480-682635/19	50.0	8.712163	25.0	262211.0	0.174243	Y
8	IC 480-682635/20	100.0	17.851505	25.0	253375.0	0.178515	Y



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Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

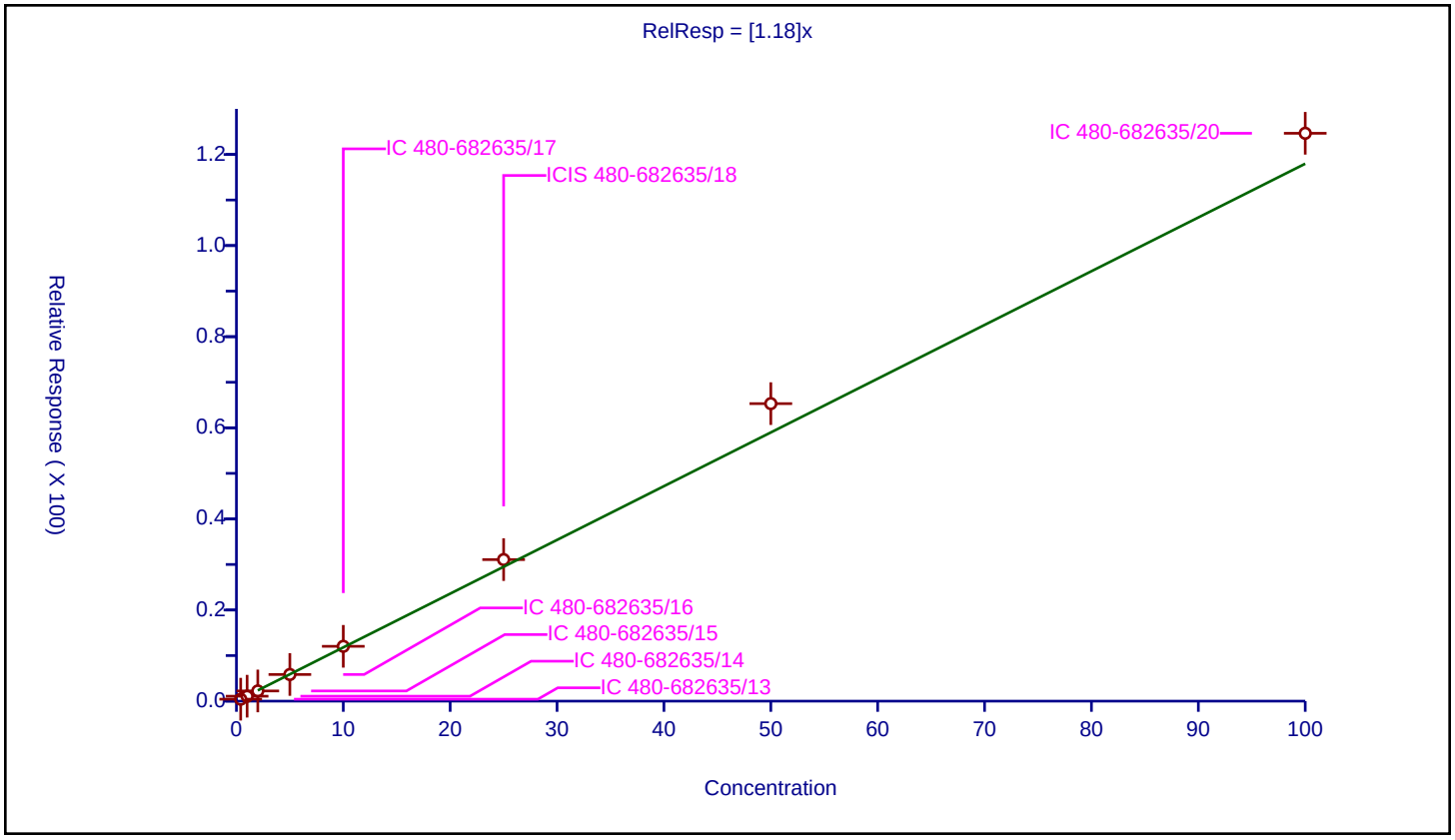
Curve Coefficients

Intercept:	0
Slope:	1.18

Error Coefficients

Standard Error:	560000
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.426951	25.0	272982.0	1.067378	Y
2	IC 480-682635/14	1.0	1.083496	25.0	302793.0	1.083496	Y
3	IC 480-682635/15	2.0	2.234639	25.0	322938.0	1.11732	Y
4	IC 480-682635/16	5.0	5.85118	25.0	284934.0	1.170236	Y
5	IC 480-682635/17	10.0	12.033154	25.0	276135.0	1.203315	Y
6	ICIS 480-682635/18	25.0	31.068154	25.0	267396.0	1.242726	Y
7	IC 480-682635/19	50.0	65.307615	25.0	262211.0	1.306152	Y
8	IC 480-682635/20	100.0	124.643809	25.0	253375.0	1.246438	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

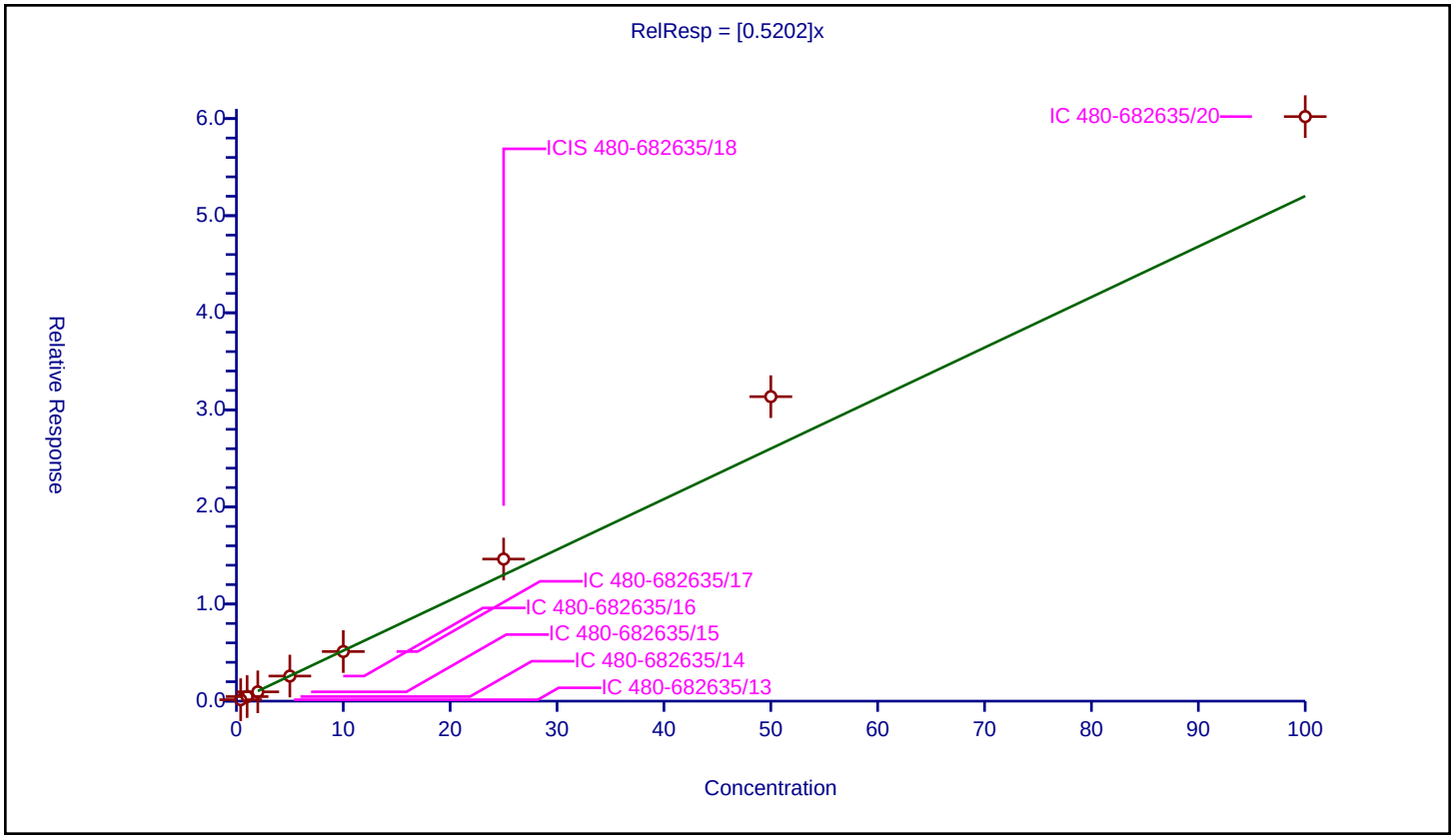
Curve Coefficients

Intercept:	0
Slope:	0.5202

Error Coefficients

Standard Error:	270000
Relative Standard Error:	16.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.147812	25.0	272982.0	0.36953	Y
2	IC 480-682635/14	1.0	0.469463	25.0	302793.0	0.469463	Y
3	IC 480-682635/15	2.0	0.960014	25.0	322938.0	0.480007	Y
4	IC 480-682635/16	5.0	2.585336	25.0	284934.0	0.517067	Y
5	IC 480-682635/17	10.0	5.109729	25.0	276135.0	0.510973	Y
6	ICIS 480-682635/18	25.0	14.633259	25.0	267396.0	0.58533	Y
7	IC 480-682635/19	50.0	31.361099	25.0	262211.0	0.627222	Y
8	IC 480-682635/20	100.0	60.205229	25.0	253375.0	0.602052	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

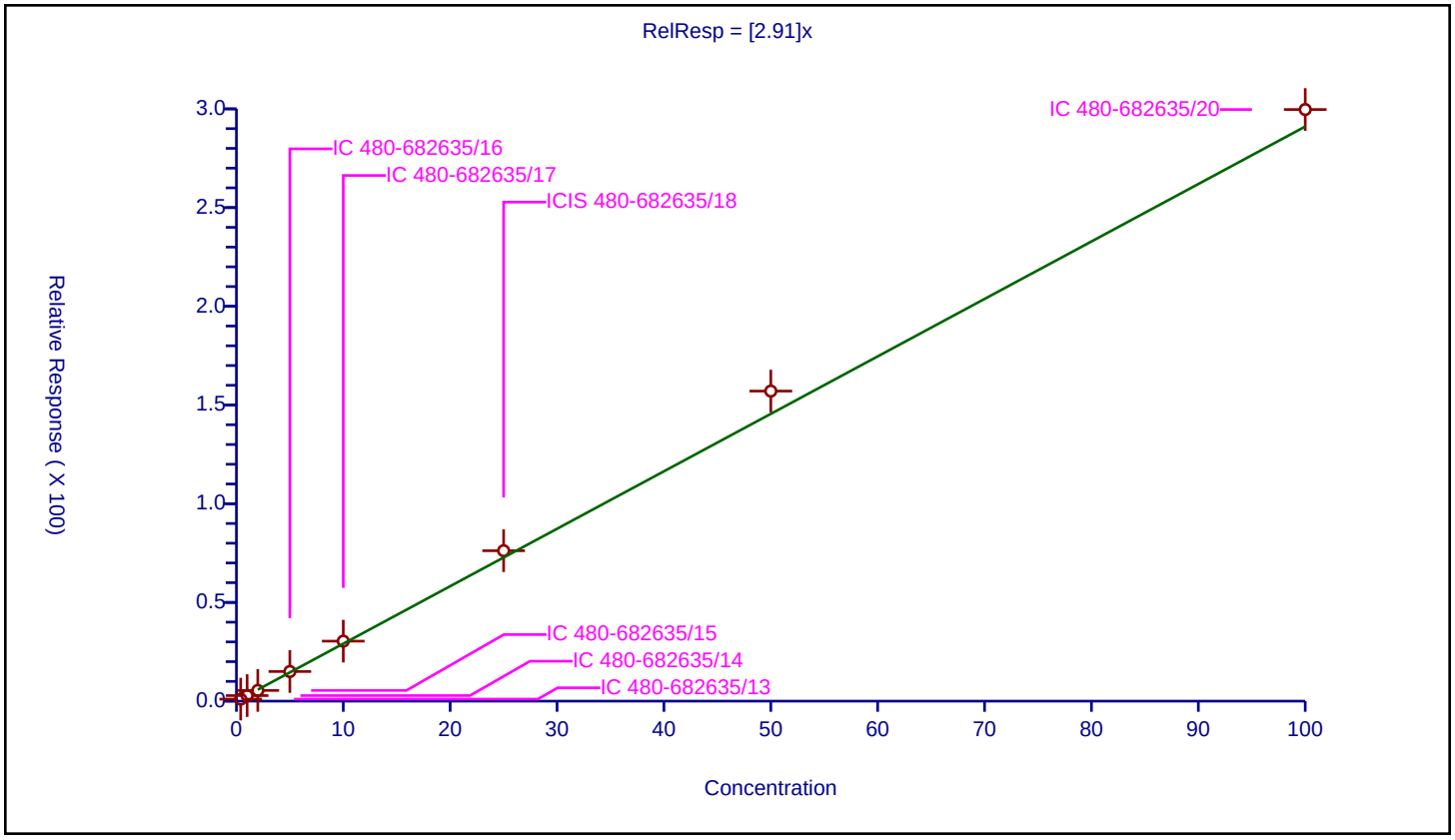
Curve Coefficients

Intercept:	0
Slope:	2.91

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	1.012521	25.0	272982.0	2.531302	Y
2	IC 480-682635/14	1.0	2.818014	25.0	302793.0	2.818014	Y
3	IC 480-682635/15	2.0	5.419616	25.0	322938.0	2.709808	Y
4	IC 480-682635/16	5.0	15.002509	25.0	284934.0	3.000502	Y
5	IC 480-682635/17	10.0	30.383146	25.0	276135.0	3.038315	Y
6	ICIS 480-682635/18	25.0	76.198784	25.0	267396.0	3.047951	Y
7	IC 480-682635/19	50.0	157.063109	25.0	262211.0	3.141262	Y
8	IC 480-682635/20	100.0	299.673113	25.0	253375.0	2.996731	Y



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Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

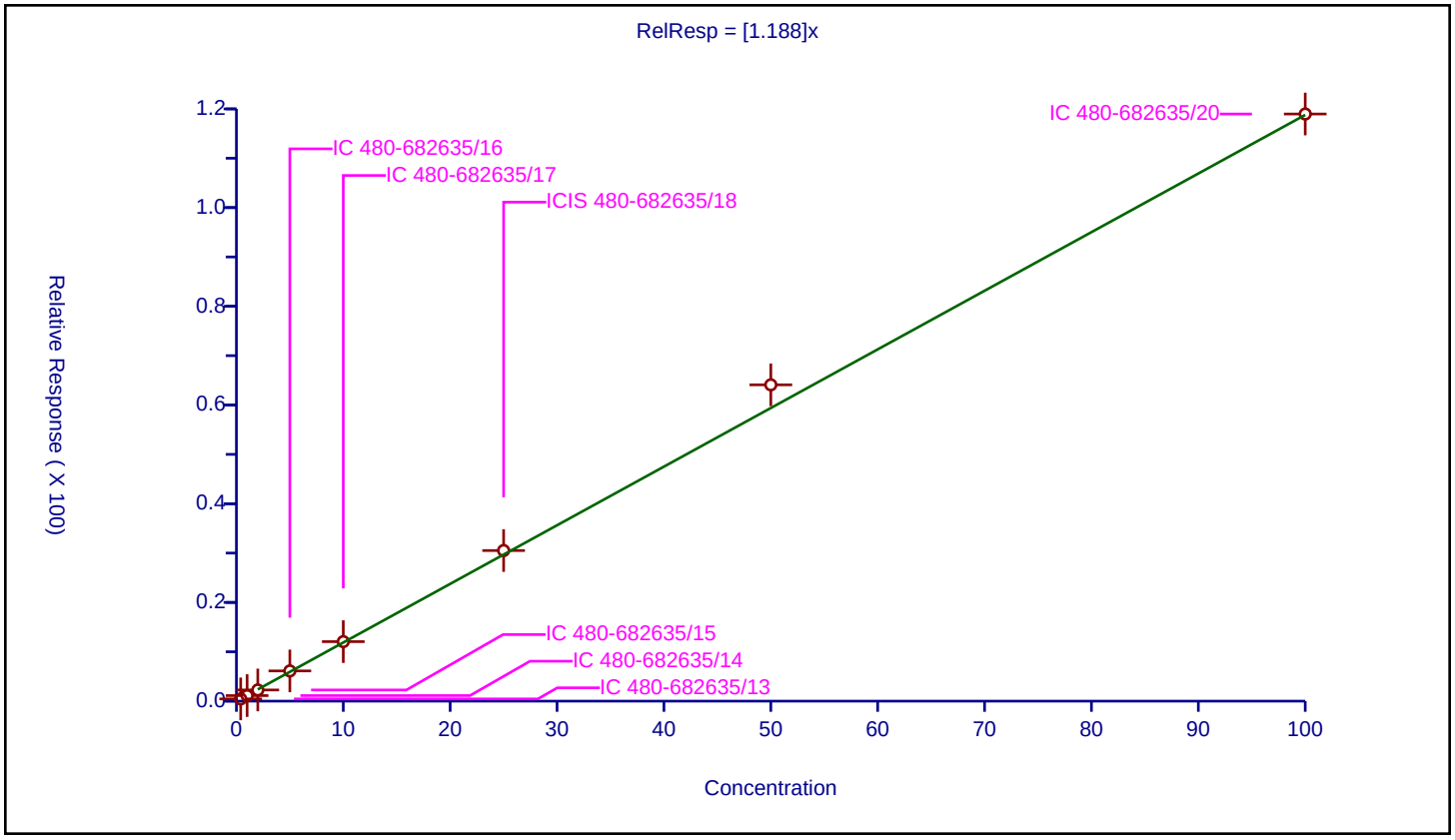
Curve Coefficients

Intercept:	0
Slope:	1.188

Error Coefficients

Standard Error:	539000
Relative Standard Error:	4.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-682635/13	0.4	0.448564	25.0	272982.0	1.121411	Y
2	IC 480-682635/14	1.0	1.126842	25.0	302793.0	1.126842	Y
3	IC 480-682635/15	2.0	2.263128	25.0	322938.0	1.131564	Y
4	IC 480-682635/16	5.0	6.122997	25.0	284934.0	1.224599	Y
5	IC 480-682635/17	10.0	12.059319	25.0	276135.0	1.205932	Y
6	ICIS 480-682635/18	25.0	30.515883	25.0	267396.0	1.220635	Y
7	IC 480-682635/19	50.0	64.092849	25.0	262211.0	1.281857	Y
8	IC 480-682635/20	100.0	118.966256	25.0	253375.0	1.189663	Y



10/13/2023
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FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 Calibration End Date: 09/25/2023 17:49 Calibration ID: 45376

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-684845/14	L0973.D
Level 2	IC 480-684845/15	L0974.D
Level 3	IC 480-684845/16	L0975.D
Level 4	IC 480-684845/17	L0976.D
Level 5	IC 480-684845/18	L0977.D
Level 6	ICIS 480-684845/19	L0978.D
Level 7	IC 480-684845/20	L0979.D
Level 8	IC 480-684845/21	L0980.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.7875 2.3761	1.7991 2.4378	2.3456 2.2420	2.4019	2.3335	Ave		2.2154			0.1000	12.0		20.0			
Chloromethane	+++++ 2.4056	2.1997 2.4613	2.8013 2.3234	2.7407	2.6267	Ave		2.5084			0.1000	8.9		20.0			
Vinyl chloride	1.2593 1.6632	1.2492 1.8177	1.6857 1.6945	1.6541	1.7151	Ave		1.5924			0.1000	13.5		20.0			
Butadiene	+++++ 1.6344	1.2932 1.8678	1.3777 1.5727	1.7062	1.7886	Ave		1.6058				13.1		20.0			
Bromomethane	+++++ 0.7816	0.3001 0.9161	0.4694 0.8874	0.5831	0.7138	Lin1	-0.833	0.8871			0.1000	15.5			0.9960		0.9900
Chloroethane	+++++ 0.9036	0.7979 0.9851	0.9493 0.9279	1.0186	0.9805	Ave		0.9376			0.1000	7.7		20.0			
Dichlorofluoromethane	+++++ 2.2065	1.6441 2.4485	2.0307 2.3132	2.2417	2.3239	Ave		2.1727				12.2		20.0			
Trichlorofluoromethane	+++++ 1.9643	0.8565 2.1895	1.4924 2.0636	1.6962	1.9122	Lin1	-1.362	2.1032			0.1000	5.2			0.9990		0.9900
Ethyl ether	+++++ 1.4607	1.5450 1.4837	1.5294 1.4233	1.5578	1.5100	Ave		1.5014				3.2		20.0			
Acrolein	0.1800 0.1523	0.1492 0.1593	0.1833 0.1518	0.2017	0.1635	Ave		0.1677				11.2		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.5135	1.1818 1.5310	1.3485 1.4194	1.4623	1.5323	Ave		1.4270			0.1000	8.9		20.0			
1,1-Dichloroethene	+++++ 1.4547	1.2110 1.4652	1.4094 1.3908	1.4644	1.4663	Ave		1.4088			0.1000	6.6		20.0			
Acetone	+++++ 0.5597	0.6841 0.5457	0.6644 0.5549	0.7323	0.5839	Ave		0.6179			0.1000	12.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 Calibration End Date: 09/25/2023 17:49 Calibration ID: 45376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	+++++ 2.3999	2.1130 2.3935	2.2529 2.3196	2.3783	2.4758	Ave		2.3333				5.1		20.0			
Carbon disulfide	+++++ 3.5946	2.1613 3.9138	2.6454 3.9115	2.8889	3.2981	Lin1	-2.550	3.8830			0.1000	11.9			0.9980		0.9900
Allyl chloride	+++++ 2.7053	2.3990 2.7127	2.5811 2.5719	2.7838	2.7965	Ave		2.6500				5.3		20.0			
Methyl acetate	2.1908 1.9004	1.9206 1.7502	2.0911 1.6688	2.1853	1.8791	Ave		1.9483			0.1000	9.9		20.0			
Methylene Chloride	+++++ 1.6799	2.1130 1.6028	1.9429 1.5413	1.8160	1.7241	Lin1	0.7597	1.5713			0.1000	7.5			0.9990		0.9900
2-Methyl-2-propanol	+++++ 0.1714	0.1726 0.1418	0.1988 0.1412	0.1759	0.1769	Ave		0.1684				12.2		20.0			
Methyl tert-butyl ether	5.1494 4.4862	4.8206 4.3994	4.9647 4.3405	5.2102	4.7479	Ave		4.7649			0.1000	7.0		20.0			
trans-1,2-Dichloroethene	+++++ 1.6392	1.3871 1.5991	1.6122 1.5052	1.6947	1.6781	Ave		1.5880			0.1000	6.8		20.0			
Acrylonitrile	1.1077 0.7952	0.9270 0.7321	1.0029 +++++	1.0375	0.7977	Ave		0.9143				15.6		20.0			
Hexane	+++++ 2.5118	2.1651 2.5316	2.6603 2.3391	2.6163	2.6237	Ave		2.4925				7.2		20.0			
1,1-Dichloroethane	+++++ 2.7614	2.5802 2.7207	2.8627 2.5852	2.9534	2.8777	Ave		2.7630			0.2000	5.2		20.0			
Vinyl acetate	4.2505 4.4178	4.0091 4.1286	4.2873 3.9692	4.3345	4.1357	Ave		4.1916				3.8		20.0			
2,2-Dichloropropane	+++++ 1.2811	1.1227 1.1538	1.1662 1.0396	1.4213	1.2725	Ave		1.2082				10.4		20.0			
cis-1,2-Dichloroethene	+++++ 1.7154	1.6188 1.7125	1.7636 1.6256	1.8298	1.8090	Ave		1.7249			0.1000	4.8		20.0			
2-Butanone (MEK)	+++++ 1.3568	1.1943 1.0384	1.3838 1.0285	1.3793	1.1260	Ave		1.2153			0.1000	13.0		20.0			
Chlorobromomethane	+++++ 0.8741	0.7904 0.8329	0.8776 0.7892	0.8657	0.8688	Ave		0.8427				4.6		20.0			
Tetrahydrofuran	0.8465 0.9440	0.9742 0.7546	0.9924 0.7347	0.9982	0.8403	Ave		0.8856				12.0		20.0			
Chloroform	2.8988 2.7177	2.6596 2.6895	2.8048 2.5815	2.8273	2.7972	Ave		2.7471			0.2000	3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 Calibration End Date: 09/25/2023 17:49 Calibration ID: 45376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	+++++ 2.1461	1.7867 2.1147	2.0638 2.0632	2.1012	2.1294	Ave		2.0579			0.1000	6.0		20.0			
Cyclohexane	+++++ 3.0455	2.4297 3.0606	3.0457 2.8497	3.0768	3.1964	Ave		2.9578			0.1000	8.6		20.0			
Carbon tetrachloride	+++++ 1.7600	1.2673 1.8306	1.5489 1.8130	1.6356	1.7462	Ave		1.6574			0.1000	12.0		20.0			
1,1-Dichloropropene	+++++ 2.1567	1.7995 2.1578	2.1075 2.0736	2.1886	2.2184	Ave		2.1003				6.7		20.0			
Isobutyl alcohol	+++++ 0.1375	0.1298 0.0958	0.1192 0.0965	0.1301	0.1105	Ave		0.1171				14.3		20.0			
Benzene	5.8755 6.1346	5.7873 5.9736	6.5745 5.7467	6.4974	6.2402	Ave		6.1037			0.5000	5.2		20.0			
1,2-Dichloroethane	2.2423 2.2305	2.2189 2.0824	2.2133 2.0186	2.2603	2.1685	Ave		2.1793			0.1000	3.9		20.0			
n-Heptane	+++++ 2.9474	2.5097 2.8905	2.9140 2.7134	2.9135	2.9536	Ave		2.8346				5.8		20.0			
Trichloroethene	+++++ 1.5956	1.3578 1.5777	1.6066 1.5626	1.6278	1.5940	Ave		1.5603			0.2000	5.9		20.0			
Methylcyclohexane	+++++ 2.8808	2.2071 2.9634	2.8283 2.7464	2.8613	2.9627	Ave		2.7786			0.1000	9.5		20.0			
1,2-Dichloropropane	+++++ 1.5885	1.4294 1.5009	1.6125 1.4925	1.5997	1.5530	Ave		1.5395			0.1000	4.4		20.0			
1,4-Dioxane	+++++ 0.0044	+++++ 0.0032	0.0031 0.0033	0.0040	0.0044	Ave		0.0037				16.1		20.0			
Dibromomethane	0.8758 1.0310	0.9143 0.9499	0.9288 0.9322	1.0428	0.9871	Ave		0.9577			0.1000	6.1		20.0			
Bromodichloromethane	+++++ 1.8919	1.3573 1.8484	1.6582 1.9004	1.7402	1.7583	Ave		1.7364			0.2000	10.9		20.0			
2-Chloroethyl vinyl ether	1.1034 1.2514	1.0091 1.1794	1.1943 1.1684	1.1266	1.1186	Ave		1.1439				6.3		20.0			
cis-1,3-Dichloropropene	2.0605 2.5325	2.1289 2.5133	2.2959 2.5357	2.3662	2.3073	Ave		2.3425			0.2000	7.8		20.0			
4-Methyl-2-pentanone (MIBK)	0.7181 0.6757	0.6658 0.5960	0.6911 0.5497	0.7255	0.6590	Ave		0.6601			0.1000	9.1		20.0			
Toluene	0.8597 0.9387	0.9167 0.9310	1.0135 0.9219	1.0304	0.9798	Ave		0.9490			0.4000	5.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 Calibration End Date: 09/25/2023 17:49 Calibration ID: 45376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	0.4565 0.5550	0.4331 0.5610	0.5194 0.5758	0.5428	0.5500	Ave		0.5242			0.1000	9.9		20.0			
Ethyl methacrylate	0.5258 0.5664	0.4982 0.5488	0.5411 0.5594	0.5754	0.5592	Ave		0.5468				4.6		20.0			
1,1,2-Trichloroethane	0.3076 0.2919	0.2841 0.2849	0.3118 0.2782	0.3143	0.3071	Ave		0.2975			0.1000	4.8		20.0			
Tetrachloroethene	+++++ 0.3883	0.3250 0.3921	0.4040 0.3902	0.4078	0.4071	Ave		0.3878			0.2000	7.4		20.0			
1,3-Dichloropropane	0.6358 0.6191	0.6350 0.6029	0.6510 0.5980	0.6691	0.6431	Ave		0.6318				3.8		20.0			
2-Hexanone	0.5006 0.4610	0.4444 0.4237	0.4895 0.4162	0.4906	0.4549	Ave		0.4601			0.1000	6.9		20.0			
Dibromochloromethane	0.2466 0.3379	0.2656 0.3481	0.2628 0.3672	0.3055	0.3160	Ave		0.3062			0.1000	14.4		20.0			
1,2-Dibromoethane	0.3881 0.3789	0.3372 0.3697	0.3662 0.3697	0.3980	0.3773	Ave		0.3731				4.8		20.0			
Chlorobenzene	0.9956 1.0180	1.0016 1.0073	1.0775 1.0079	1.0964	1.0607	Ave		1.0331			0.5000	3.8		20.0			
Ethylbenzene	+++++ 1.7444	1.6031 1.7187	1.8491 1.7293	1.8853	1.8298	Ave		1.7657			0.1000	5.5		20.0			
1,1,1,2-Tetrachloroethane	0.2520 0.3557	0.2949 0.3401	0.3161 0.3496	0.3657	0.3483	Ave		0.3278				11.7		20.0			
m,p-Xylene	+++++ 0.6825	0.5713 0.6762	0.7197 0.6842	0.7458	0.7076	Ave		0.6839			0.1000	8.1		20.0			
o-Xylene	+++++ 0.6882	0.6511 0.6537	0.7101 0.6525	0.7477	0.7217	Ave		0.6893			0.3000	5.6		20.0			
Styrene	+++++ 1.0770	0.9823 1.0662	1.0829 1.0623	1.1341	1.1138	Ave		1.0741			0.3000	4.5		20.0			
Bromoform	+++++ 0.2291	0.1562 0.2384	0.1785 0.2554	0.1966	0.2003	Lin1	-0.1488	0.2473			0.1000	12.8			0.9970		0.9900
Isopropylbenzene	+++++ 3.3206	2.6918 3.1846	3.2769 3.2567	3.7041	3.4936	Ave		3.2755			0.1000	9.5		20.0			
Bromobenzene	+++++ 0.7804	0.7633 0.7780	0.7910 0.7873	0.8844	0.8375	Ave		0.8031				5.3		20.0			
1,1,2,2-Tetrachloroethane	1.0393 1.0687	1.0261 0.9815	1.0928 0.9783	1.1995	1.0817	Ave		1.0585			0.3000	6.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 Calibration End Date: 09/25/2023 17:49 Calibration ID: 45376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	+++++ 3.9375	3.3219 3.8843	3.8834 3.8903	4.4547	4.2158	Ave		3.9411				8.9		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3505	0.2996 0.3582	0.3370 0.3690	0.3566	0.3508	Ave		0.3460				6.5		20.0			
1,2,3-Trichloropropane	+++++ 0.3476	0.3317 0.3195	0.3592 0.3170	0.3976	0.3605	Ave		0.3476				8.1		20.0			
2-Chlorotoluene	+++++ 0.7621	0.6472 0.7450	0.7824 0.7537	0.8982	0.8180	Ave		0.7724				9.9		20.0			
1,3,5-Trimethylbenzene	+++++ 2.8062	2.2259 2.6546	2.7085 2.7301	3.1147	2.8866	Ave		2.7324				9.9		20.0			
4-Chlorotoluene	2.0633 2.2970	2.1892 2.3229	2.4016 2.3501	2.6573	2.4990	Ave		2.3475				7.7		20.0			
tert-Butylbenzene	+++++ 0.6297	0.5081 0.6038	0.5945 0.6167	0.6907	0.6403	Ave		0.6120				9.1		20.0			
1,2,4-Trimethylbenzene	+++++ 2.9010	2.3808 2.7521	2.8257 2.8083	3.2704	3.0433	Ave		2.8545				9.6		20.0			
sec-Butylbenzene	+++++ 3.6347	2.8323 3.4634	3.6198 3.4985	4.1148	3.7967	Ave		3.5657				11.0		20.0			
4-Isopropyltoluene	+++++ 3.0748	2.3933 2.9494	2.9347 3.0073	3.4910	3.2293	Ave		3.0114				11.1		20.0			
1,3-Dichlorobenzene	1.4569 1.5050	1.4409 1.4873	1.6212 1.4905	1.8003	1.6618	Ave		1.5580			0.6000	8.0		20.0			
1,4-Dichlorobenzene	1.4526 1.5234	1.5111 1.5291	1.7155 1.5349	1.8288	1.6728	Ave		1.5960			0.5000	8.1		20.0			
n-Butylbenzene	+++++ 2.8284	2.1861 2.8209	2.7071 2.8733	3.2446	3.0188	Ave		2.8113				11.6		20.0			
1,2-Dichlorobenzene	1.4916 1.5350	1.5591 1.4585	1.6207 1.4661	1.7912	1.6329	Ave		1.5694			0.4000	7.1		20.0			
1,2-Dibromo-3-Chloropropane	0.1870 0.2406	0.1784 0.2151	0.1939 0.2391	0.2223	0.2136	Ave		0.2112			0.0500	11.0		20.0			
1,2,4-Trichlorobenzene	+++++ 1.1910	1.0047 1.1468	1.0967 1.1702	1.3193	1.2109	Ave		1.1628			0.2000	8.4		20.0			
Hexachlorobutadiene	+++++ 0.4652	0.3216 0.4782	0.4130 0.4716	0.4975	0.4798	Ave		0.4467				13.7		20.0			
Naphthalene	3.6162 4.0672	3.5538 3.6582	3.7143 3.7834	4.4829	3.8621	Ave		3.8423				7.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 Calibration End Date: 09/25/2023 17:49 Calibration ID: 45376

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.9828 1.1619	1.0300 1.0774	1.0837 1.1055	1.3435	1.1198	Ave		1.1131				9.7		20.0			
Dibromofluoromethane (Surr)	+++++ 1.3149	1.2454 1.3111	1.2069 1.2911	1.3102	1.3185	Ave		1.2854				3.3		20.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 1.6833	1.5804 1.5420	1.5574 1.5070	1.6688	1.5796	Ave		1.5884				4.1		20.0			
Toluene-d8 (Surr)	+++++ 1.2210	1.2873 1.2644	1.2418 1.3127	1.3569	1.3260	Ave		1.2872				3.7		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.3369	0.3511 0.3597	0.3403 0.3772	0.3826	0.3717	Ave		0.3599				5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30 | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-684845/14	L0973.D
Level 2	IC 480-684845/15	L0974.D
Level 3	IC 480-684845/16	L0975.D
Level 4	IC 480-684845/17	L0976.D
Level 5	IC 480-684845/18	L0977.D
Level 6	ICIS 480-684845/19	L0978.D
Level 7	IC 480-684845/20	L0979.D
Level 8	IC 480-684845/21	L0980.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4335 318724	10437 627121	27653 1176383	67429	124679	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	+++++ 322676	12761 633167	33026 1219093	76940	140340	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	3054 223094	7247 467623	19873 889114	46437	91635	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	+++++ 219228	7502 480493	16242 825200	47899	95563	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Lin1	+++++ 104835	1741 235659	5534 465619	16370	38139	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	+++++ 121203	4629 253413	11192 486880	28596	52388	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	+++++ 295967	9538 629895	23941 1213747	62932	124162	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Lin1	+++++ 263489	4969 563253	17594 1082764	47619	102165	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	+++++ 195936	8963 381694	18031 746812	43733	80676	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	2183 102144	4329 204852	10807 398285	28319	43691	2.00 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 203010	6856 393848	15898 744756	41052	81872	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	+++++ 195127	7025 376926	16616 729771	41110	78345	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	+++++ 375356	19843 701911	39162 1455789	102795	155996	+++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	+++++ 321915	12258 615744	26560 1217093	66766	132278	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Lin1	+++++	12538	31187	81101	176214	+++++	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			482166	1006837	2052364			25.0	50.0	100		
Allyl chloride	FB	Ave	+++++ 362873	13917 697850	30430 1349471	78150	149415	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	10626 509837	22284 900511	49305 1751268	122698	200795	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	+++++ 225341	12258 412336	22906 808705	50982	92115	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	+++++ 229947	10014 364756	23443 740731	49394	94499	+++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	12488 601763	27965 1131761	58531 2277470	146267	253677	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 219878	8047 411374	19007 789798	47575	89661	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	26864 1066679	53777 1883234	118238 +++++	291269	426196	4.00 250	10.0 500	20.0 +++++	50.0	100
Hexane	FB	Ave	+++++ 336929	12560 651260	31363 1227313	73449	140181	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	+++++ 370408	14968 699908	33749 1356488	82913	153754	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	20616 1185179	46515 2124175	101089 4165304	243369	441930	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 171840	6513 296820	13749 545476	39900	67991	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 230102	9391 440535	20792 852938	51368	96653	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 909958	34642 1335623	81570 2698357	193606	300795	+++++ 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	+++++ 117250	4585 214267	10346 414077	24303	46419	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	4106 253242	11303 388242	23399 770951	56048	89794	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	7030 364541	15429 691886	33067 1354538	79373	149450	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	+++++ 287864	10365 544026	24331 1082583	58988	113773	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	+++++ 408508	14095 787360	35907 1495250	86375	170780	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 236073	7352 470922	18260 951299	45916	93299	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	+++++ 289288	10439 555110	24846 1088027	61441	118526	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30 | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	+++++ 461055	18828 616164	35130 1265950	91298	147609	+++++ 625	25.0 1250	50.0 2500	125	250
Benzene	FB	Ave	14249 822871	33573 1536733	77509 3015292	182403	333408	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	5438 299196	12872 535705	26093 1059165	63455	115859	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	+++++ 395349	14559 743599	34354 1423725	81793	157811	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	+++++ 214025	7877 405879	18941 819928	45697	85165	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	+++++ 386424	12804 762344	33344 1441022	80327	158294	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	+++++ 213074	8292 386112	19010 783102	44908	82976	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZd5	Ave	+++++ 47223	+++++ 65438	2918 135627	8455	17832	+++++ 500	+++++ 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	2124 138294	5304 244377	10950 489124	29275	52739	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	+++++ 253768	7874 475507	19549 997173	48854	93944	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	2676 167855	5854 303418	14080 613055	31628	59767	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	4997 339696	12350 646562	27067 1330513	66428	123279	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZd5	Ave	34446 1823066	74476 3045855	163696 5651810	384714	669660	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZd5	Ave	8247 506527	20506 951601	48014 1895727	109270	199144	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZd5	Ave	4379 299469	9689 573406	24604 1184028	57563	111786	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZd5	Ave	5044 305628	11145 560908	25634 1150405	61017	113661	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZd5	Ave	2951 157536	6355 291179	14769 572113	33333	62411	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZd5	Ave	+++++	7271	19141	43250	82733	+++++	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			209535	400761	802397			25.0	50.0	100		
1,3-Dichloropropane	CBNZd5	Ave	6099 334055	14205 616282	30842 1229823	70957	130711	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZd5	Ave	24012 1243747	49706 2165157	115954 4279814	260146	462274	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZd5	Ave	2366 182326	5941 355845	12450 755055	32393	64215	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZd5	Ave	3723 204446	7543 377872	17350 760221	42209	76681	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZd5	Ave	9551 549340	22407 1029642	51044 2072633	116270	215583	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZd5	Ave	+++++ 941293	35862 1756738	87597 3556157	199936	371884	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	2418 191961	6597 347662	14977 718974	38778	70796	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZd5	Ave	+++++ 368290	12780 691187	34096 1407041	79090	143815	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZd5	Ave	+++++ 371330	14566 668131	33639 1341727	79287	146688	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZd5	Ave	+++++ 581155	21974 1089781	51302 2184590	120269	226372	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZd5	Lin1	+++++ 123637	3494 243720	8458 525238	20852	40719	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd4	Ave	+++++ 963809	33202 1731358	85933 3513731	201337	374792	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd4	Ave	+++++ 226499	9415 422993	20744 849422	48071	89845	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	5524 310195	12657 533601	28658 1055512	65201	116049	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd4	Ave	+++++ 1142864	40975 2111791	101839 4197377	242135	452270	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	+++++	3696	8837	19384	37634	+++++	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			101742	194719	398076			25.0	50.0	100		
1,2,3-Trichloropropane	DCBd4	Ave	+++++ 100878	4091 173704	9419 341981	21610	38679	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd4	Ave	+++++ 221193	7983 405031	20518 813226	48819	87755	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	+++++ 814507	27456 1443211	71029 2945561	169299	309677	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd4	Ave	10967 666696	27003 1262903	62980 2535630	144436	268094	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd4	Ave	+++++ 182780	6267 328276	15589 665428	37545	68696	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	+++++ 842009	29366 1496261	74102 3029924	177762	326488	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd4	Ave	+++++ 1054979	34935 1882946	94927 3774637	223659	407309	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd4	Ave	+++++ 892463	29521 1603539	76959 3244664	189754	346437	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd4	Ave	7744 436813	17773 808608	42515 1608119	97855	178280	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd4	Ave	7721 442162	18639 831344	44987 1656019	99405	179464	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd4	Ave	+++++ 820936	26965 1533665	70990 3100046	176360	323863	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd4	Ave	7928 445521	19231 792959	42502 1581834	97363	175178	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	994 69833	2200 116962	5086 257927	12083	22914	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	+++++ 345686	12392 623496	28760 1262533	71711	129902	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 135012	3967 259986	10831 508866	27044	51472	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd4	Ave	19221 1180498	43835 1988846	97404 4082061	243666	414333	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	5224 337227	12705 585741	28418 1192734	73024	120136	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 176377	180625 168649	177855 169365	183903	176112	+++++ 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 225794	229201 198342	229512 197686	234244	210996	+++++ 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZd5	Ave	+++++	719910	735368	719504	673720	+++++	25.0	25.0	25.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30 | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			658868	646181	674876			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZd 5	Ave	+++++ 181797	196356 183820	201511 193930	202875	188840	+++++ 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30) ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-684845/14	L0973.D
Level 2	IC 480-684845/15	L0974.D
Level 3	IC 480-684845/16	L0975.D
Level 4	IC 480-684845/17	L0976.D
Level 5	IC 480-684845/18	L0977.D
Level 6	ICIS 480-684845/19	L0978.D
Level 7	IC 480-684845/20	L0979.D
Level 8	IC 480-684845/21	L0980.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-19.3						30					
Chloromethane	+++++	-12.3						30				
Vinyl chloride	-20.9						30					
Butadiene	+++++	-19.5						30				
Bromomethane	+++++	27.8						30				
Chloroethane	+++++	-14.9						30				
Dichlorofluoromethane	+++++	-24.3						30				
Trichlorofluoromethane	+++++	5.5						30				
Ethyl ether	+++++	2.9						30				
Acrolein	7.4						30					
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	-17.2						30				
1,1-Dichloroethene	+++++	-14.0						30				
Acetone	+++++	10.7						30				
Iodomethane	+++++	-9.4						30				
Carbon disulfide	+++++	21.3						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30) ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	+++++	-9.5						30				
Methyl acetate	12.4						30					
Methylene Chloride	+++++	-13.9						30				
2-Methyl-2-propanol	+++++	2.5						30				
Methyl tert-butyl ether	8.1						30					
trans-1,2-Dichloroethene	+++++	-12.6						30				
Acrylonitrile	21.2	+++++					30					
Hexane	+++++	-13.1						30				
1,1-Dichloroethane	+++++	-6.6						30				
Vinyl acetate	1.4						30					
2,2-Dichloropropane	+++++	-7.1						30				
cis-1,2-Dichloroethene	+++++	-6.2						30				
2-Butanone (MEK)	+++++	-1.7						30				
Chlorobromomethane	+++++	-6.2						30				
Tetrahydrofuran	-4.4						30					
Chloroform	5.5						30					
1,1,1-Trichloroethane	+++++	-13.2						30				
Cyclohexane	+++++	-17.9						30				
Carbon tetrachloride	+++++	-23.5						30				
1,1-Dichloropropene	+++++	-14.3						30				
Isobutyl alcohol	+++++	10.9						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30) ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzene	-3.7						30					
1,2-Dichloroethane	2.9						30					
n-Heptane	+++++	-11.5						30				
Trichloroethene	+++++	-13.0						30				
Methylcyclohexane	+++++	-20.6						30				
1,2-Dichloropropane	+++++	-7.2						30				
1,4-Dioxane	+++++	+++++	-17.2						30			
Dibromomethane	-8.6						30					
Bromodichloromethane	+++++	-21.8						30				
2-Chloroethyl vinyl ether	-3.5						30					
cis-1,3-Dichloropropene	-12.0						30					
4-Methyl-2-pentanone (MIBK)	8.8						30					
Toluene	-9.4						30					
trans-1,3-Dichloropropene	-12.9						30					
Ethyl methacrylate	-3.8						30					
1,1,2-Trichloroethane	3.4						30					
Tetrachloroethene	+++++	-16.2						30				
1,3-Dichloropropane	0.6						30					
2-Hexanone	8.8						30					
Dibromochloromethane	-19.5						30					
1,2-Dibromoethane	4.0						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30) ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-3.6						30					
Ethylbenzene	+++++	-9.2						30				
1,1,1,2-Tetrachloroethane	-23.1						30					
m,p-Xylene	+++++	-16.5						30				
o-Xylene	+++++	-5.5						30				
Styrene	+++++	-8.5						30				
Bromoform	+++++	22.9						30				
Isopropylbenzene	+++++	-17.8						30				
Bromobenzene	+++++	-5.0						30				
1,1,2,2-Tetrachloroethane	-1.8						30					
N-Propylbenzene	+++++	-15.7						30				
trans-1,4-Dichloro-2-butene	+++++	-13.4						30				
1,2,3-Trichloropropane	+++++	-4.6						30				
2-Chlorotoluene	+++++	-16.2						30				
1,3,5-Trimethylbenzene	+++++	-18.5						30				
4-Chlorotoluene	-12.1						30					
tert-Butylbenzene	+++++	-17.0						30				
1,2,4-Trimethylbenzene	+++++	-16.6						30				
sec-Butylbenzene	+++++	-20.6						30				
4-Isopropyltoluene	+++++	-20.5						30				
1,3-Dichlorobenzene	-6.5						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 684845

SDG No.: 480-213061-1

Instrument ID: HP5977L | GC Column: ZB-624 (30) ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2023 14:59 | Calibration End Date: 09/25/2023 17:49 | Calibration ID: 45376

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-9.0						30					
n-Butylbenzene	+++++	-22.2						30				
1,2-Dichlorobenzene	-5.0						30					
1,2-Dibromo-3-Chloropropane	-11.5						30					
1,2,4-Trichlorobenzene	+++++	-13.6						30				
Hexachlorobutadiene	+++++	-28.0						30				
Naphthalene	-5.9						30					
1,2,3-Trichlorobenzene	-11.7						30					
Dibromofluoromethane (Surr)	+++++	-3.1						30				
1,2-Dichloroethane-d4 (Surr)	+++++	-0.5						30				
Toluene-d8 (Surr)	+++++	0.0						30				
4-Bromofluorobenzene (Surr)	+++++	-2.5						30				

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-Sep-2023 14:59:36 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.4
Misc. Info.: 480-0113942-014
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:41:51 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 10:10:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.673	-0.003	99	151572	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.544	8.548	-0.004	87	599584	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	95	332203	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	183501	25.0	23.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.419	5.422	-0.003	98	237480	25.0	24.7	
$ 6 Toluene-d8 (Surr)	98	7.088	7.091	-0.003	94	764300	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.789	-0.004	98	221826	25.0	25.7	
10 Dichlorodifluoromethane	85	1.728	1.721	0.007	93	4335	0.4000	0.3227	
13 Chloromethane	50	1.956	1.937	0.019	95	5420	0.4000	0.3564	
14 Vinyl chloride	62	2.062	2.056	0.006	84	3054	0.4000	0.3163	
15 Butadiene	54	2.075	2.075	0.000	87	2166	0.4000	0.2225	
18 Bromomethane	94	2.435	2.416	0.019	0	389	0.4000	1.01	M
19 Chloroethane	64	2.487	2.480	0.007	85	2037	0.4000	0.3584	
20 Dichlorofluoromethane	67	2.728	2.699	0.029	73	3504	0.4000	0.2660	
21 Trichlorofluoromethane	101	2.718	2.721	-0.003	72	857	0.4000	0.7150	
26 Ethyl ether	59	2.956	2.950	0.006	92	4464	0.4000	0.4904	
28 Acrolein	56	3.130	3.130	0.000	91	2183	2.00	2.15	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.162	3.155	0.007	0	1741	0.4000	0.2012	M
30 1,1-Dichloroethene	96	3.187	3.187	0.000	87	2413	0.4000	0.2825	
31 Acetone	43	3.265	3.271	-0.006	98	8972	2.00	2.40	M
33 Iodomethane	142	3.361	3.355	0.006	94	4405	0.4000	0.3114	
35 Carbon disulfide	76	3.396	3.406	-0.010	0	3371	0.4000	0.7998	M
37 3-Chloro-1-propene	41	3.509	3.503	0.006	92	5770	0.4000	0.3591	
38 Methyl acetate	43	3.535	3.528	0.007	99	10626	0.8000	0.8996	
39 Methylene Chloride	84	3.650	3.647	0.003	96	6626	0.4000	0.2120	
40 2-Methyl-2-propanol	59	3.737	3.747	-0.010	94	4880	4.00	4.78	
41 Methyl tert-butyl ether	73	3.814	3.808	0.006	98	12488	0.4000	0.4323	
42 trans-1,2-Dichloroethene	96	3.843	3.837	0.006	0	3066	0.4000	0.3185	M
44 Acrylonitrile	53	3.885	3.879	0.006	99	26864	4.00	4.85	
47 Hexane	57	3.998	3.998	0.000	96	3829	0.4000	0.2534	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	90	5739	0.4000	0.3426	
49 Vinyl acetate	43	4.236	4.229	0.007	98	20616	0.8000	0.8112	
56 2,2-Dichloropropane	77	4.670	4.686	-0.016	0	2248	0.4000	0.3069	M
58 cis-1,2-Dichloroethene	96	4.712	4.708	0.004	78	3392	0.4000	0.3243	
57 2-Butanone (MEK)	43	4.728	4.721	0.007	99	19062	2.00	2.59	
60 Chlorobromomethane	128	4.930	4.930	0.000	88	1568	0.4000	0.3069	
61 Tetrahydrofuran	42	4.946	4.946	0.000	86	4106	0.8000	0.7647	M
62 Chloroform	83	4.978	4.978	0.000	90	7030	0.4000	0.4221	
64 1,1,1-Trichloroethane	97	5.104	5.110	-0.006	0	3680	0.4000	0.2950	M
65 Cyclohexane	56	5.130	5.130	0.000	61	4490	0.4000	0.2504	
66 Carbon tetrachloride	117	5.242	5.239	0.003	0	2545	0.4000	0.2533	M
67 1,1-Dichloropropene	75	5.242	5.242	0.000	89	4009	0.4000	0.3148	
69 Isobutyl alcohol	43	5.371	5.367	0.004	94	8163	10.0	11.5	
70 Benzene	78	5.435	5.435	0.000	96	14249	0.4000	0.3850	
72 1,2-Dichloroethane	62	5.496	5.486	0.010	95	5438	0.4000	0.4116	
73 n-Heptane	43	5.548	5.551	-0.003	96	4817	0.4000	0.2803	
75 Trichloroethene	95	5.985	5.988	-0.003	89	2982	0.4000	0.3152	
76 Methylcyclohexane	83	6.113	6.110	0.003	89	3688	0.4000	0.2189	M
77 1,2-Dichloropropane	63	6.226	6.220	0.006	0	3129	0.4000	0.3352	M
81 1,4-Dioxane	88		6.339				ND	ND	
82 Dibromomethane	93	6.358	6.355	0.003	88	2124	0.4000	0.3658	
83 Dichlorobromomethane	83	6.474	6.480	-0.006	91	3343	0.4000	0.3175	
84 2-Chloroethyl vinyl ether	63	6.715	6.712	0.003	0	2676	0.4000	0.3858	M
85 cis-1,3-Dichloropropene	75	6.872	6.869	0.003	92	4997	0.4000	0.3518	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.985	0.000	98	34446	2.00	2.18	
88 Toluene	92	7.158	7.155	0.003	96	8247	0.4000	0.3624	
91 trans-1,3-Dichloropropene	75	7.396	7.406	-0.010	86	4379	0.4000	0.3483	
90 Ethyl methacrylate	69	7.412	7.412	0.000	84	5044	0.4000	0.3846	
93 1,1,2-Trichloroethane	83	7.599	7.596	0.003	81	2951	0.4000	0.4136	
94 Tetrachloroethene	166	7.670	7.679	-0.009	92	2815	0.4000	0.3027	
95 1,3-Dichloropropane	76	7.763	7.763	0.000	0	6099	0.4000	0.4025	M
96 2-Hexanone	43	7.792	7.792	0.000	95	24012	2.00	2.18	
98 Chlorodibromomethane	129	8.004	8.001	0.003	0	2366	0.4000	0.3222	M
101 Ethylene Dibromide	107	8.117	8.123	-0.006	92	3723	0.4000	0.4160	
103 Chlorobenzene	112	8.583	8.580	0.003	0	9551	0.4000	0.3855	M
104 Ethylbenzene	91	8.647	8.647	0.000	97	14688	0.4000	0.3468	
105 1,1,1,2-Tetrachloroethane	131	8.663	8.660	0.003	59	2418	0.4000	0.3075	
106 m-Xylene & p-Xylene	106	8.766	8.763	0.003	0	5610	0.4000	0.3420	M
107 o-Xylene	106	9.191	9.194	-0.003	95	5571	0.4000	0.3370	
109 Styrene	104	9.216	9.219	-0.003	91	8669	0.4000	0.3365	
110 Bromoform	173	9.490	9.493	-0.003	0	1219	0.4000	0.8031	M
111 Isopropylbenzene	105	9.564	9.564	0.000	96	13364	0.4000	0.3070	
113 Bromobenzene	156	9.962	9.959	0.003	90	3497	0.4000	0.3277	
112 1,1,2,2-Tetrachloroethane	83	9.972	9.975	-0.003	88	5524	0.4000	0.3927	
114 N-Propylbenzene	91	10.010	10.010	0.000	99	15929	0.4000	0.3042	
115 trans-1,4-Dichloro-2-butene	53	10.020	10.023	-0.003	68	1371	0.4000	0.2982	
116 1,2,3-Trichloropropane	110	10.020	10.027	-0.007	0	1578	0.4000	0.3417	M
117 2-Chlorotoluene	126	10.139	10.139	0.000	0	3050	0.4000	0.2972	M
118 1,3,5-Trimethylbenzene	105	10.187	10.187	0.000	93	10836	0.4000	0.2984	
119 4-Chlorotoluene	91	10.248	10.252	-0.004	93	10967	0.4000	0.3516	
120 tert-Butylbenzene	134	10.515	10.518	-0.003	93	2038	0.4000	0.2506	
121 1,2,4-Trimethylbenzene	105	10.576	10.573	0.003	93	11509	0.4000	0.3034	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	93	13056	0.4000	0.2755	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	95	11296	0.4000	0.2823	
124 1,3-Dichlorobenzene	146	10.888	10.888	0.000	94	7744	0.4000	0.3741	
126 1,4-Dichlorobenzene	146	10.978	10.975	0.003	0	7721	0.4000	0.3641	M
127 n-Butylbenzene	91	11.245	11.248	-0.003	95	10182	0.4000	0.2726	
128 1,2-Dichlorobenzene	146	11.326	11.329	-0.003	95	7928	0.4000	0.3802	
129 1,2-Dibromo-3-Chloropropane	75	12.026	12.030	-0.004	72	994	0.4000	0.3541	
130 1,2,4-Trichlorobenzene	180	12.657	12.660	-0.003	89	5343	0.4000	0.3458	
131 Hexachlorobutadiene	225	12.750	12.747	0.003	71	1338	0.4000	0.2254	
132 Naphthalene	128	12.869	12.869	0.000	96	19221	0.4000	0.3765	
133 1,2,3-Trichlorobenzene	180	13.065	13.065	0.000	89	5224	0.4000	0.3532	
S 141 1,2-Dichloroethene, Total	1				0			0.6428	
S 142 Total BTEX	1				0			1.77	
S 144 1,3-Dichloropropene, Total	1				0			0.7002	
S 143 Xylenes, Total	1				0			0.6790	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

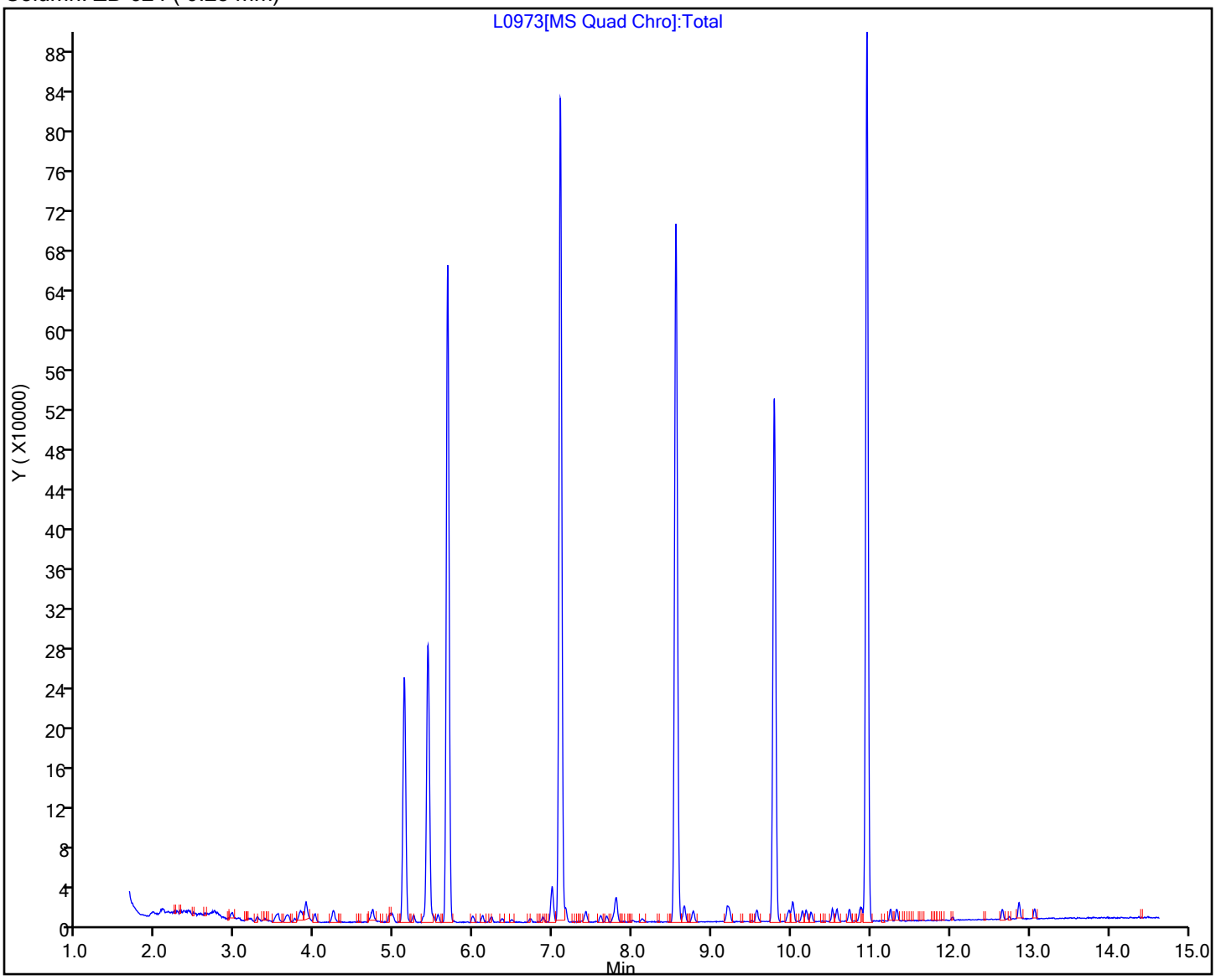
Reagents:

8260 CORP mix_00244	Amount Added:	0.40	Units: uL	
GAS CORP mix_00587	Amount Added:	0.40	Units: uL	
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:41:51 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



Eurofins Buffalo

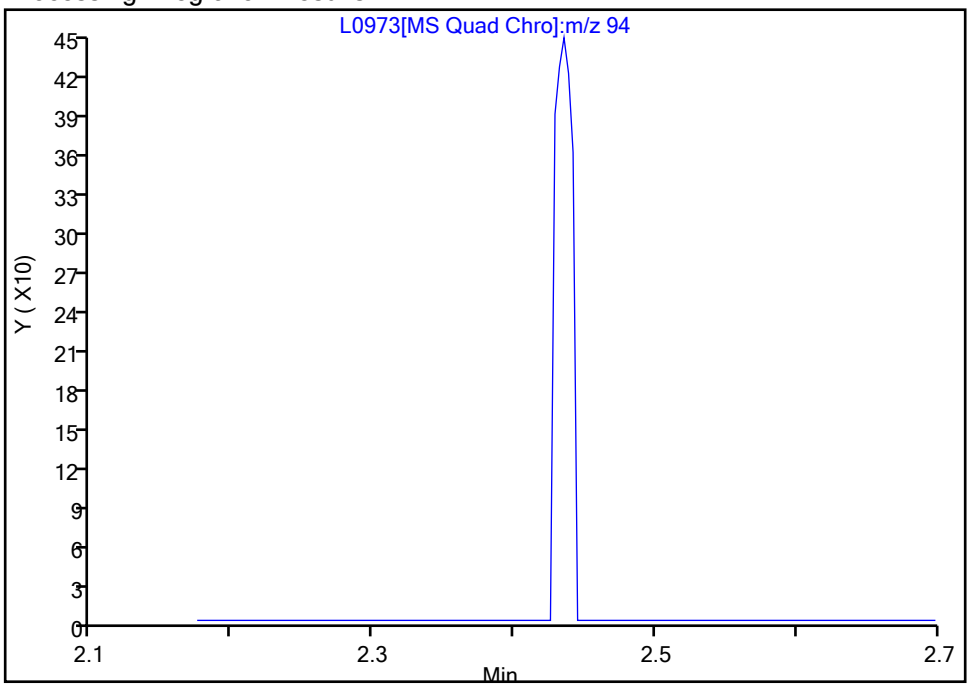
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

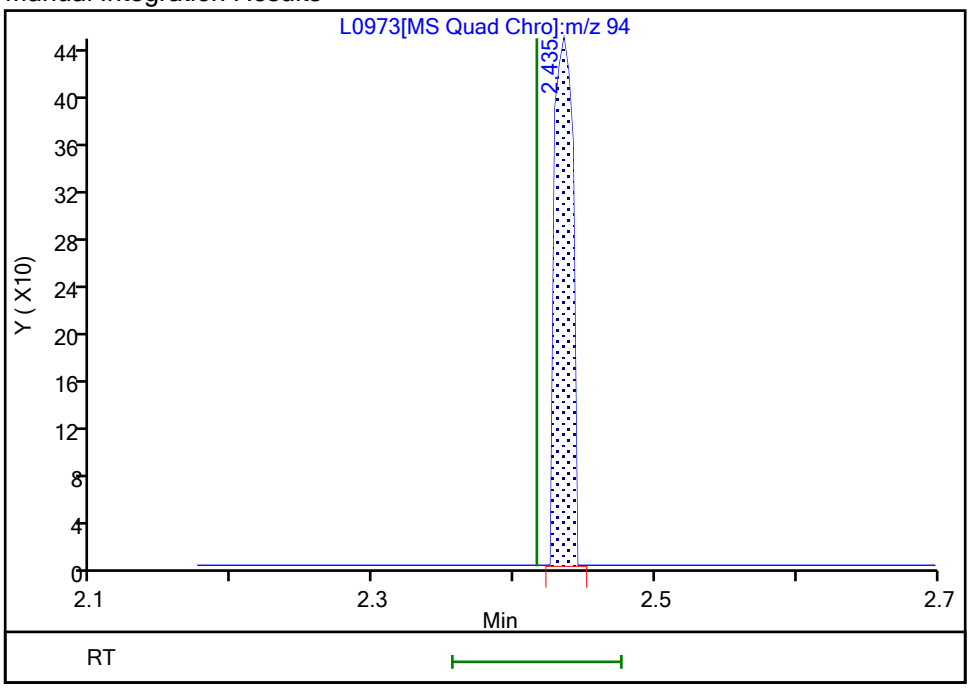
Not Detected
Expected RT: 2.42

Processing Integration Results



Manual Integration Results

RT: 2.44
Area: 389
Amount: 1.011596
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:08:01 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

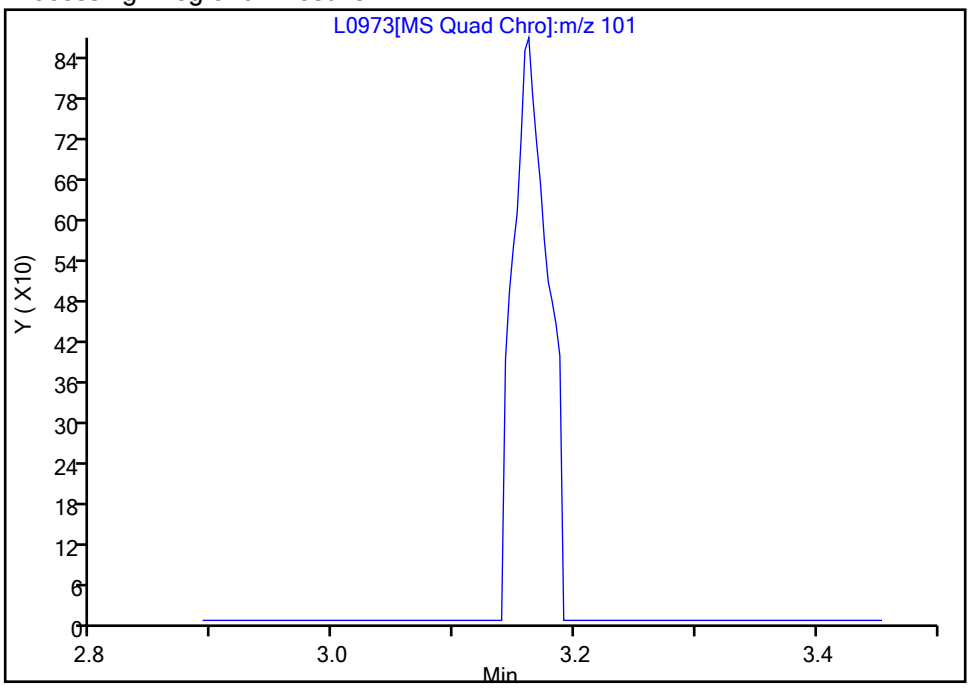
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 1,1,2-Trichloro-1,2,2-trifluoroe, CAS: 76-13-1

Signal: 1

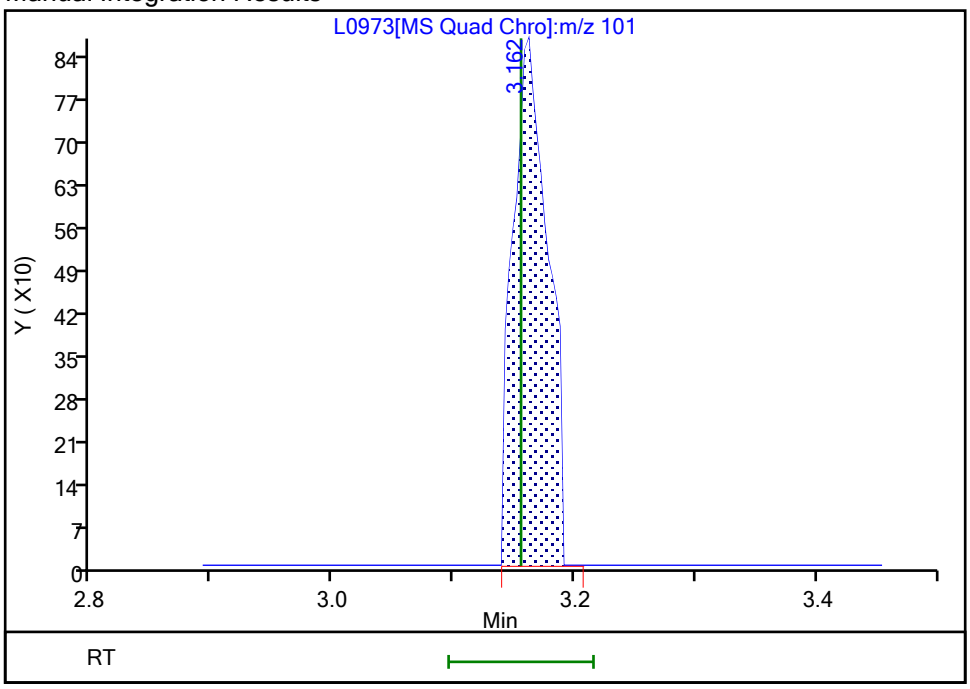
Not Detected
Expected RT: 3.16

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 1741
Amount: 0.201235
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:08:10 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

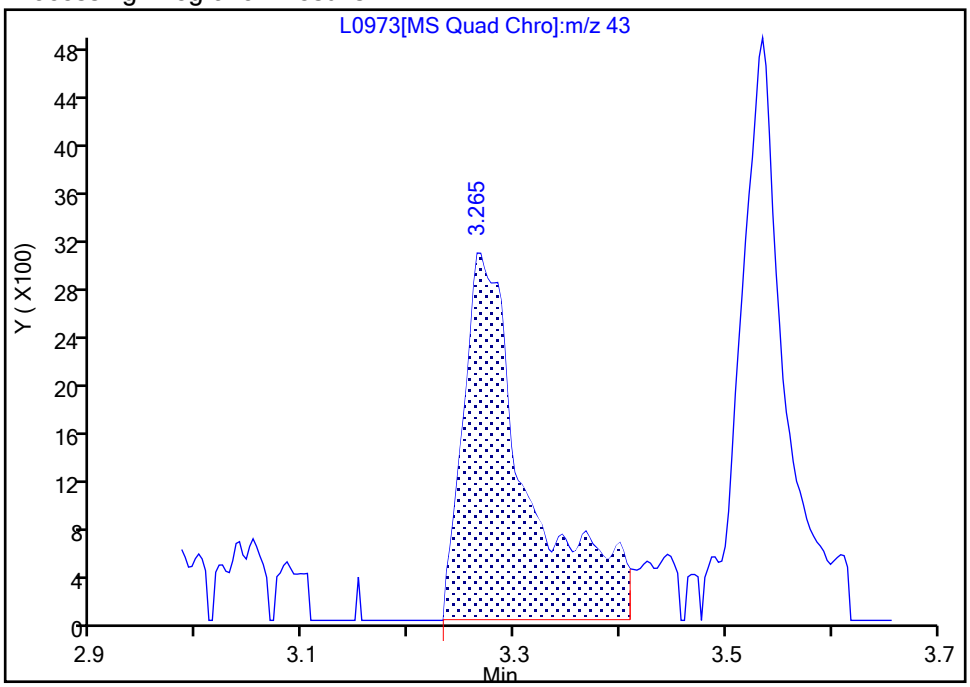
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

31 Acetone, CAS: 67-64-1

Signal: 1

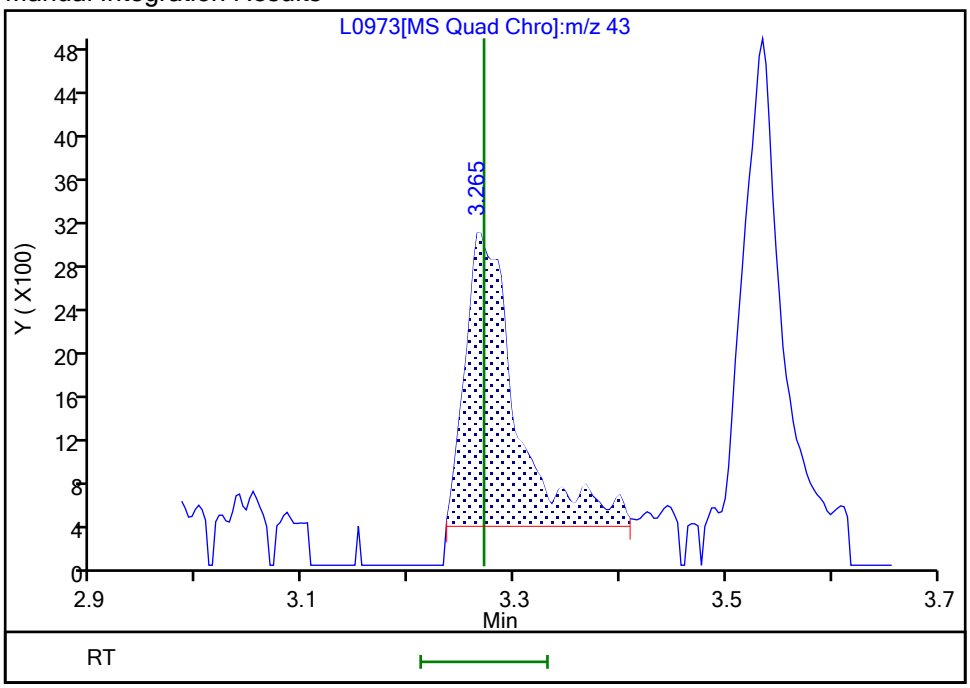
Processing Integration Results

RT: 3.26
Area: 12845
Amount: 3.084422
Amount Units: ug/L



Manual Integration Results

RT: 3.26
Area: 8972
Amount: 2.395100
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:08:19 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

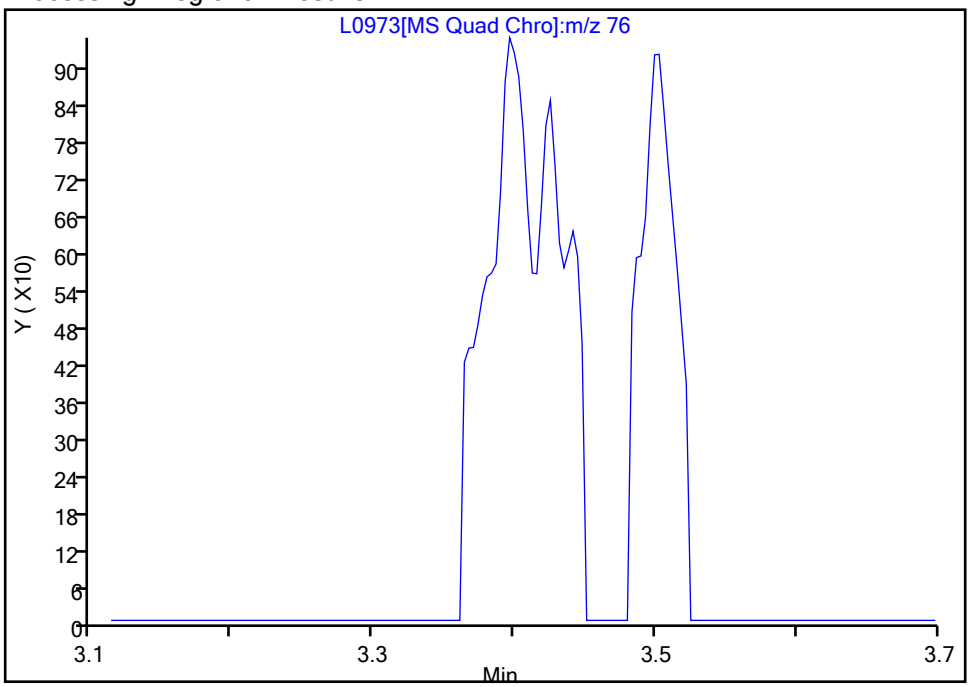
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

35 Carbon disulfide, CAS: 75-15-0

Signal: 1

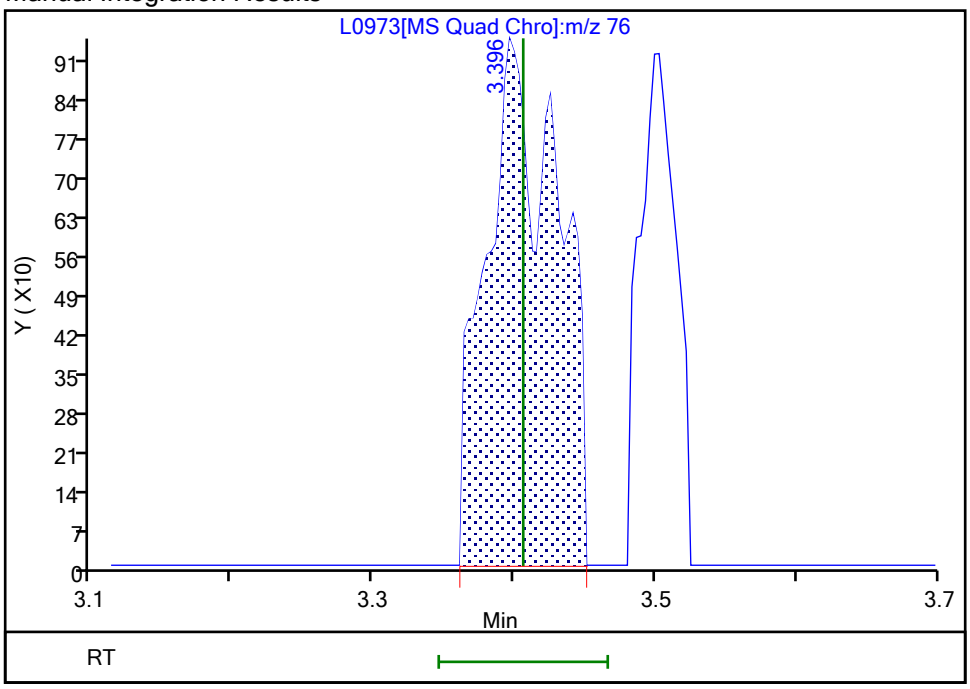
Not Detected
Expected RT: 3.41

Processing Integration Results



Manual Integration Results

RT: 3.40
Area: 3371
Amount: 0.799793
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:08:26 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

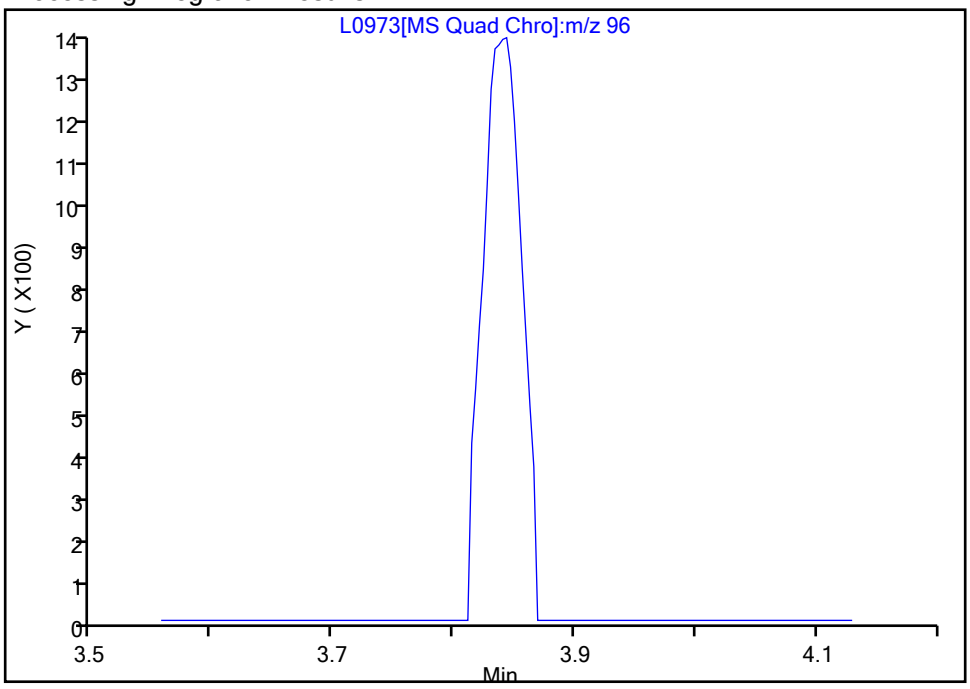
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

42 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

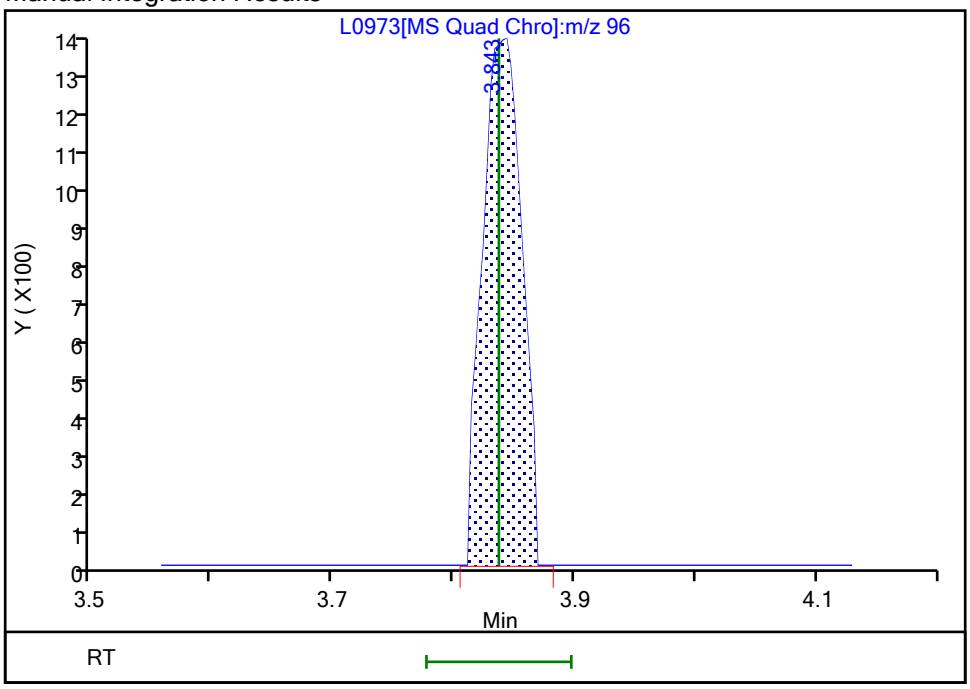
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.84
Area: 3066
Amount: 0.318460
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:08:34 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

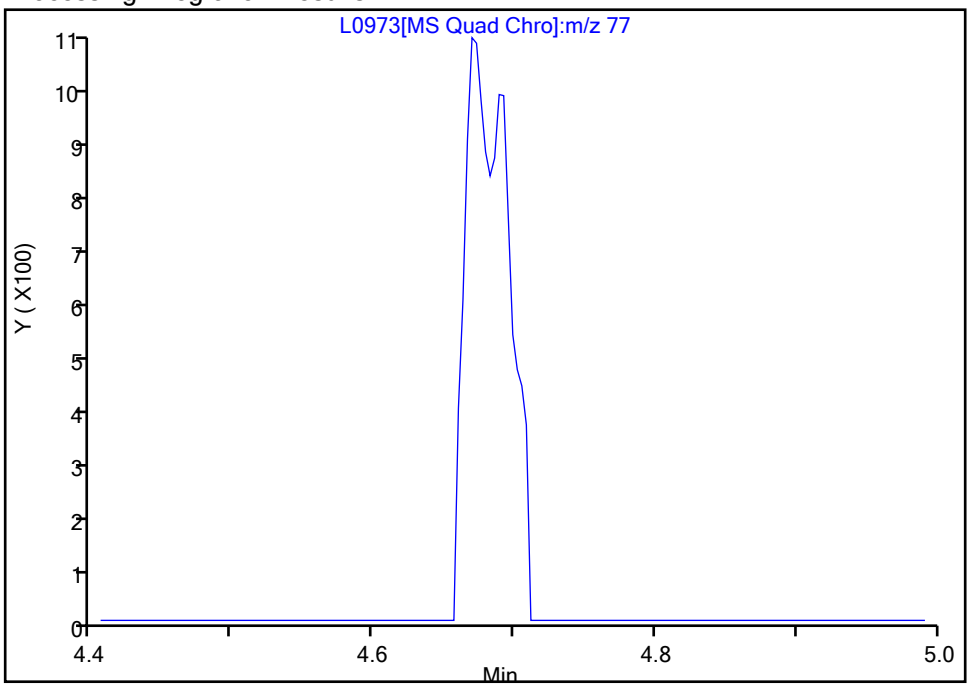
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

56 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

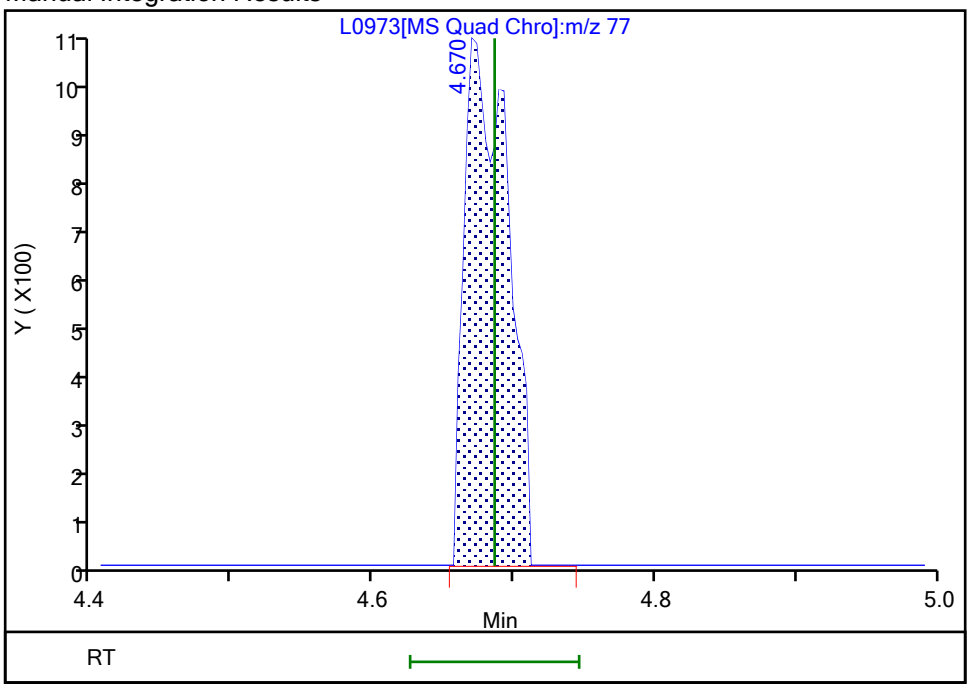
Not Detected
Expected RT: 4.69

Processing Integration Results



Manual Integration Results

RT: 4.67
Area: 2248
Amount: 0.306894
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:08:41 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

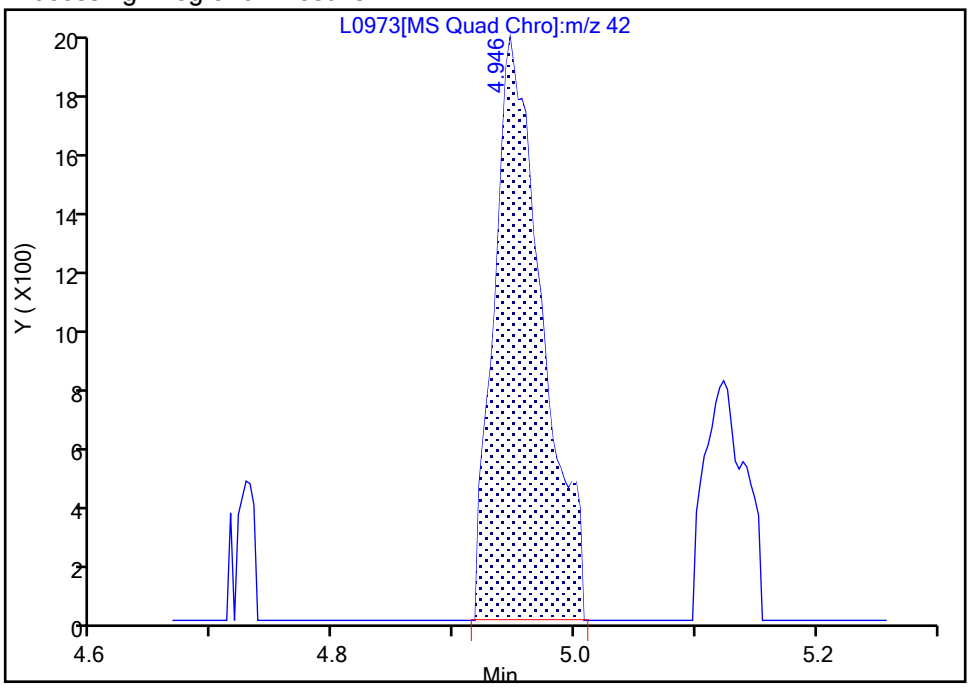
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

61 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

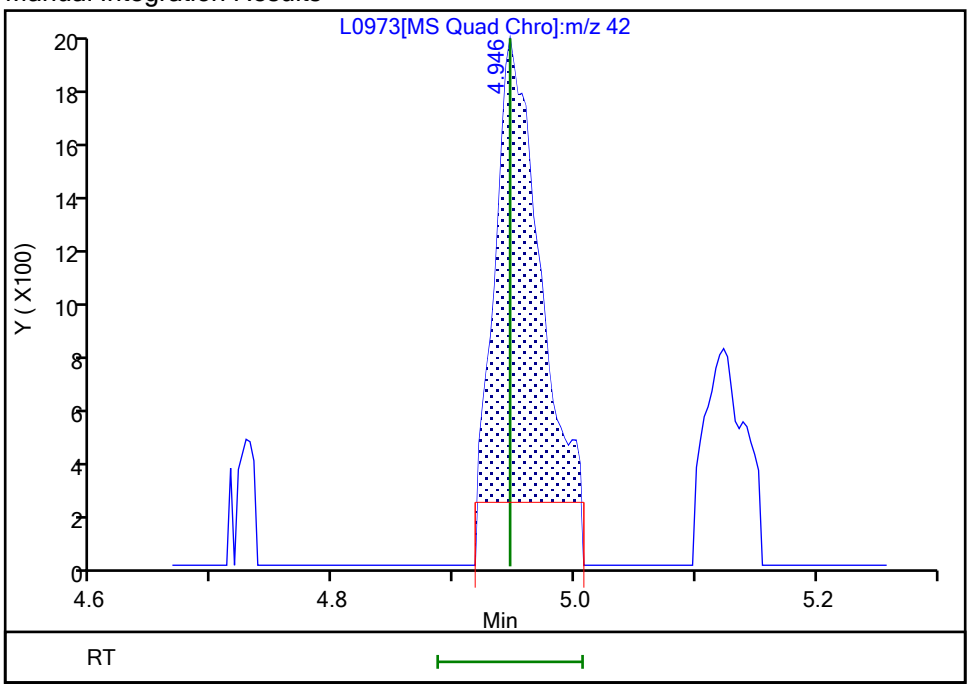
Processing Integration Results

RT: 4.95
Area: 5426
Amount: 0.973169
Amount Units: ug/L



Manual Integration Results

RT: 4.95
Area: 4106
Amount: 0.764711
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:09:06 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

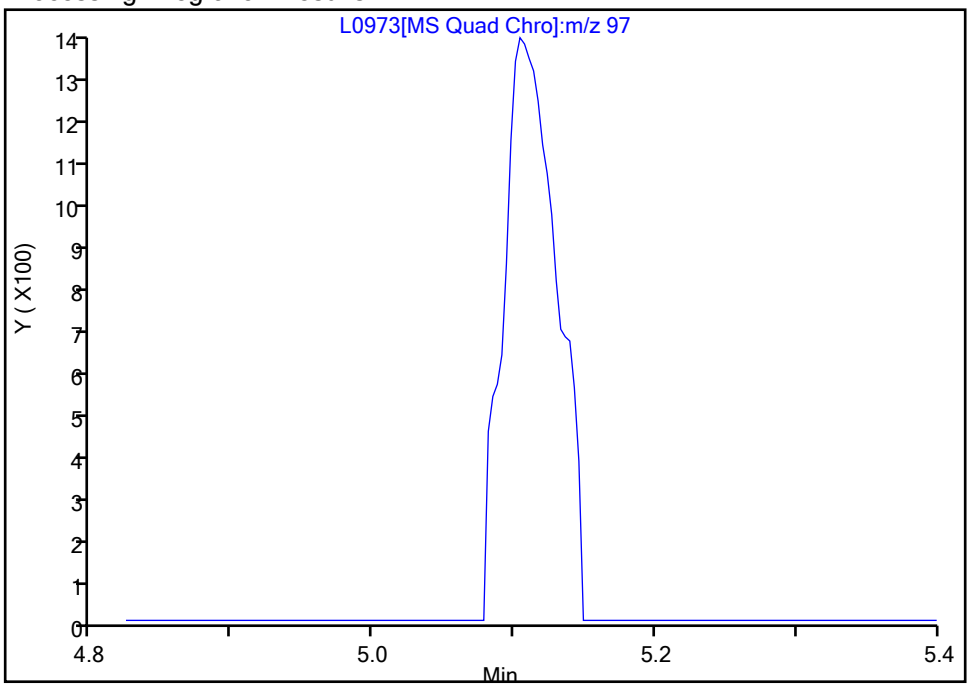
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

64 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

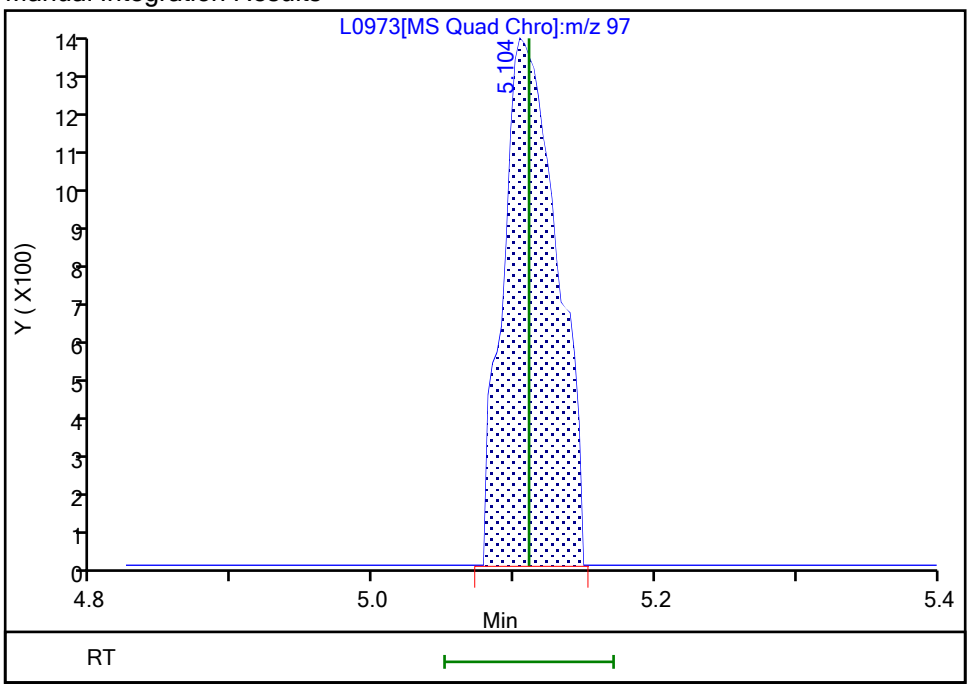
Not Detected
Expected RT: 5.11

Processing Integration Results



Manual Integration Results

RT: 5.10
Area: 3680
Amount: 0.294950
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:09:13 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

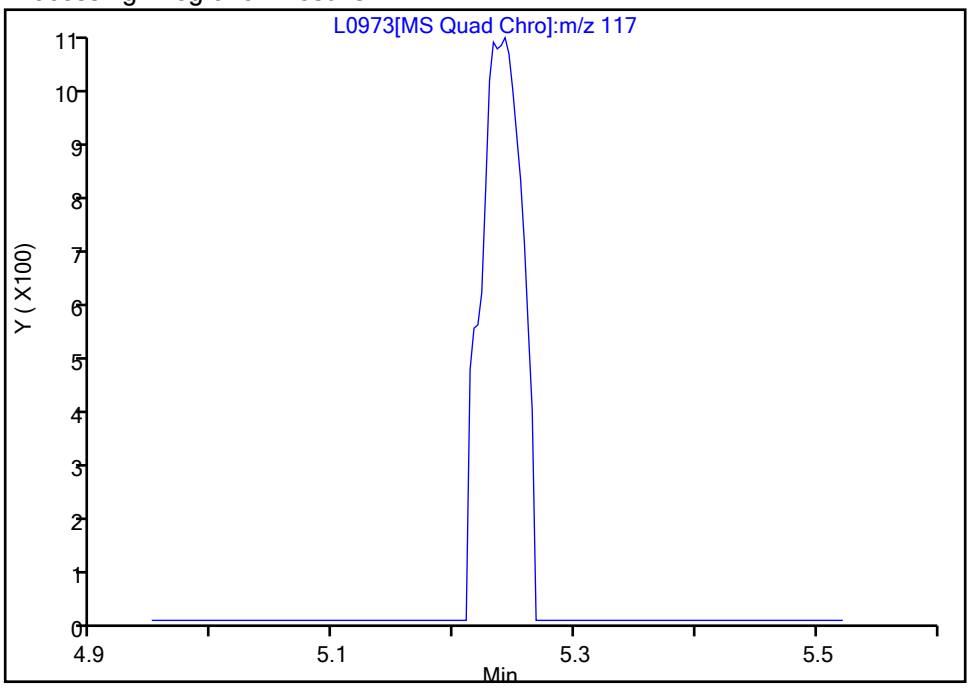
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

66 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

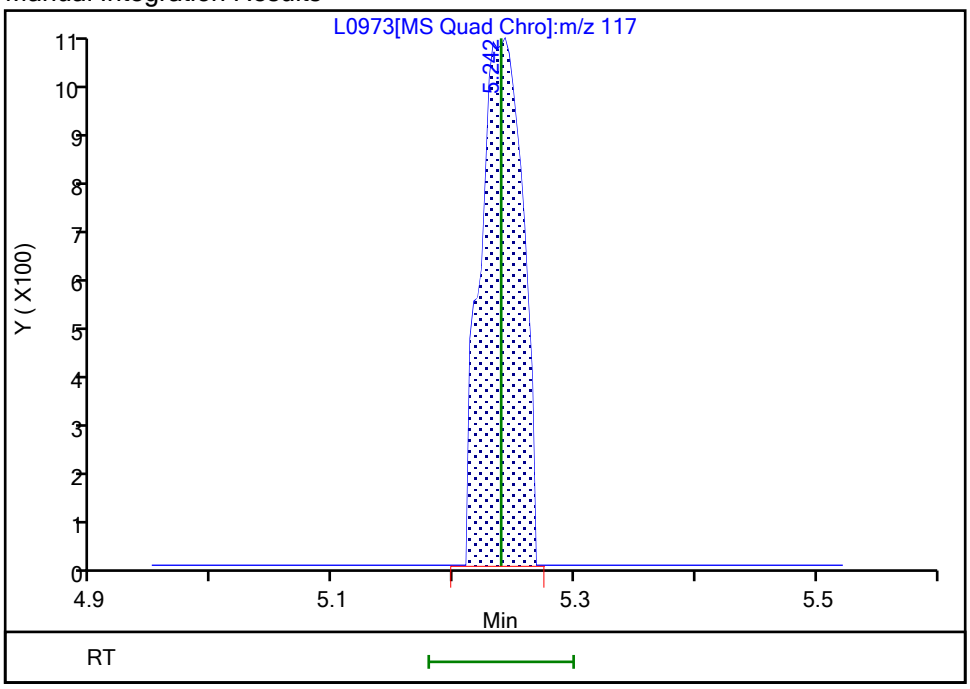
Not Detected
Expected RT: 5.24

Processing Integration Results



Manual Integration Results

RT: 5.24
Area: 2545
Amount: 0.253275
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:09:19 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

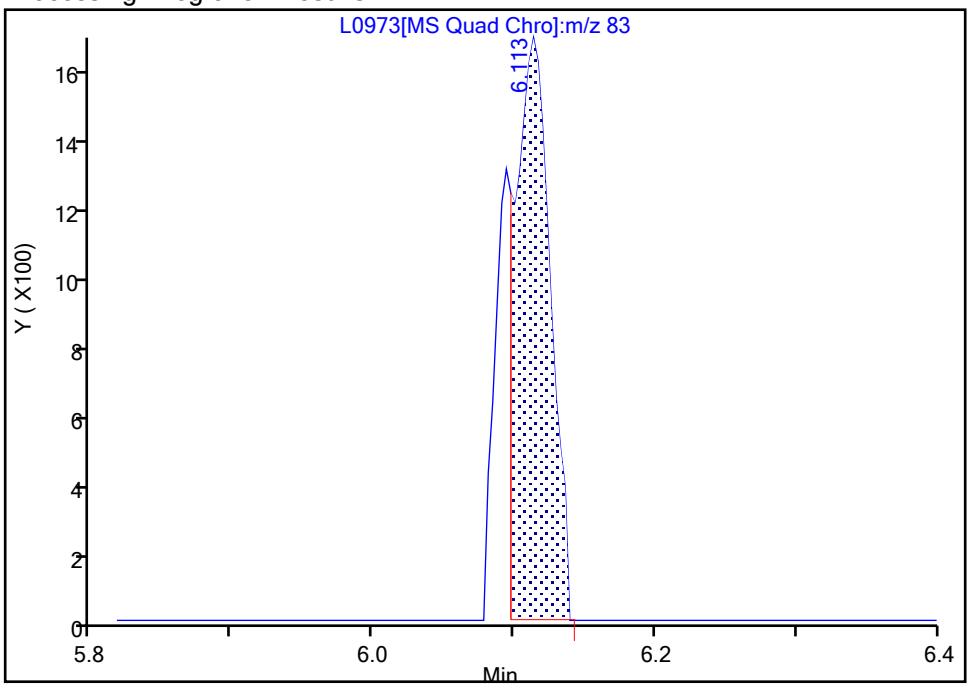
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

76 Methylcyclohexane, CAS: 108-87-2

Signal: 1

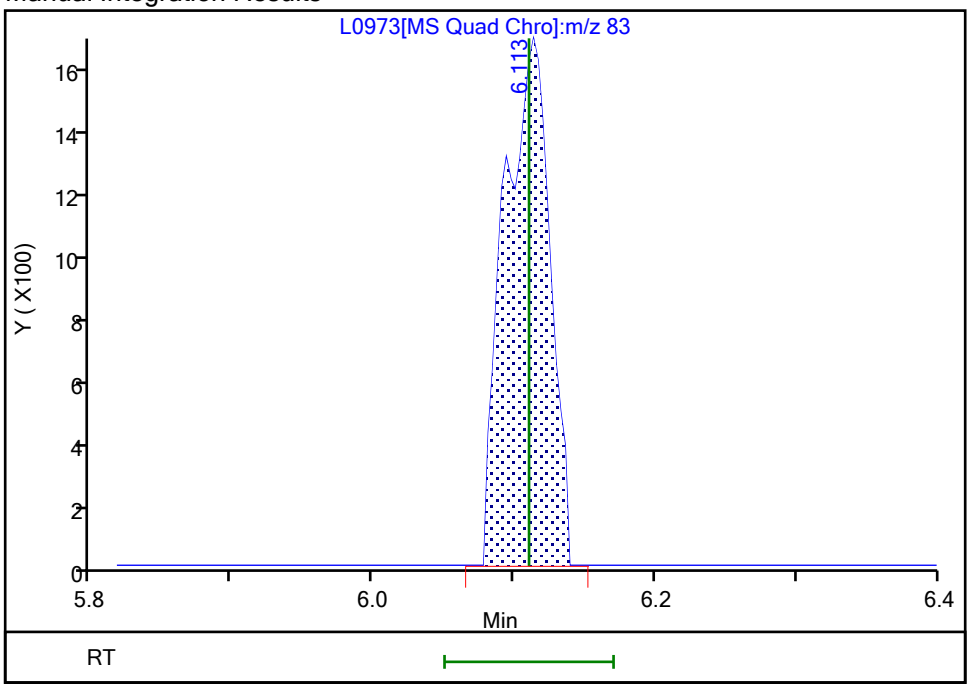
Processing Integration Results

RT: 6.11
Area: 2843
Amount: 0.339056
Amount Units: ug/L



Manual Integration Results

RT: 6.11
Area: 3688
Amount: 0.218922
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:09:31 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

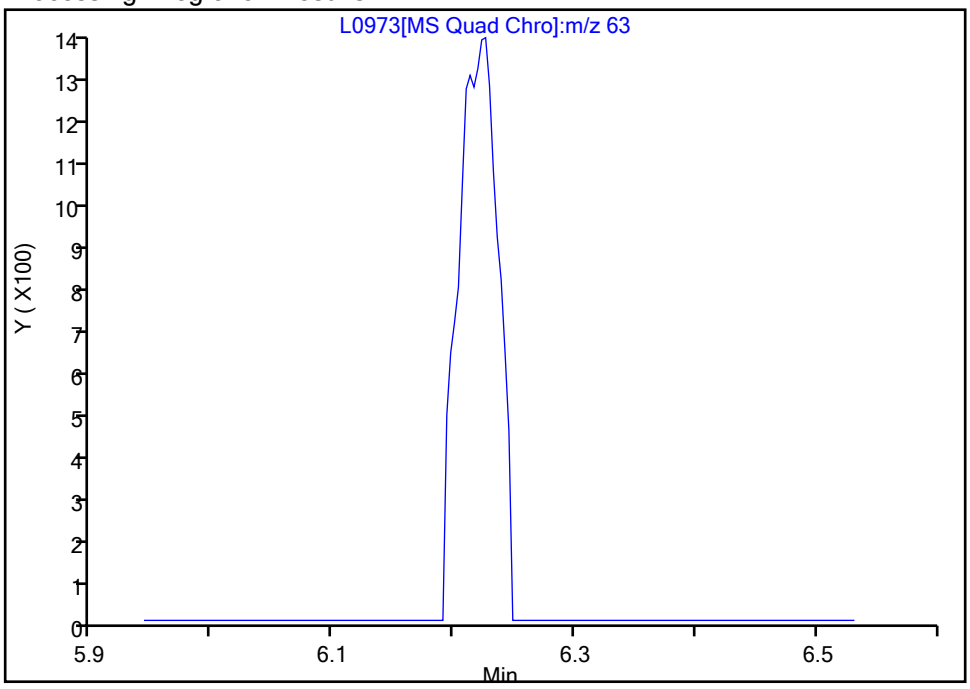
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

77 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

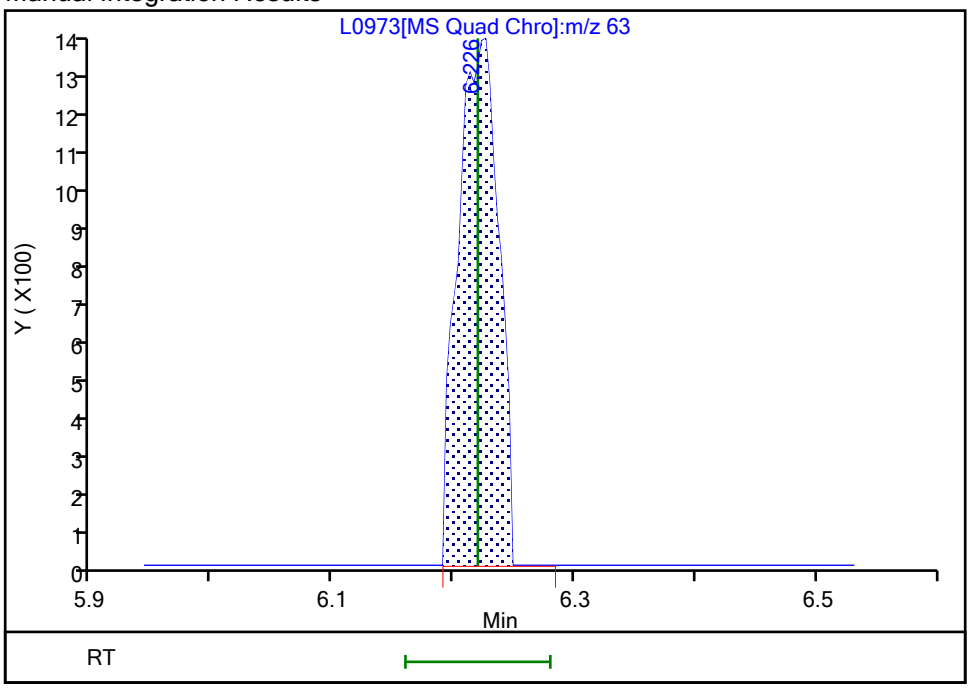
Not Detected
Expected RT: 6.22

Processing Integration Results



Manual Integration Results

RT: 6.23
Area: 3129
Amount: 0.335238
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:09:39 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

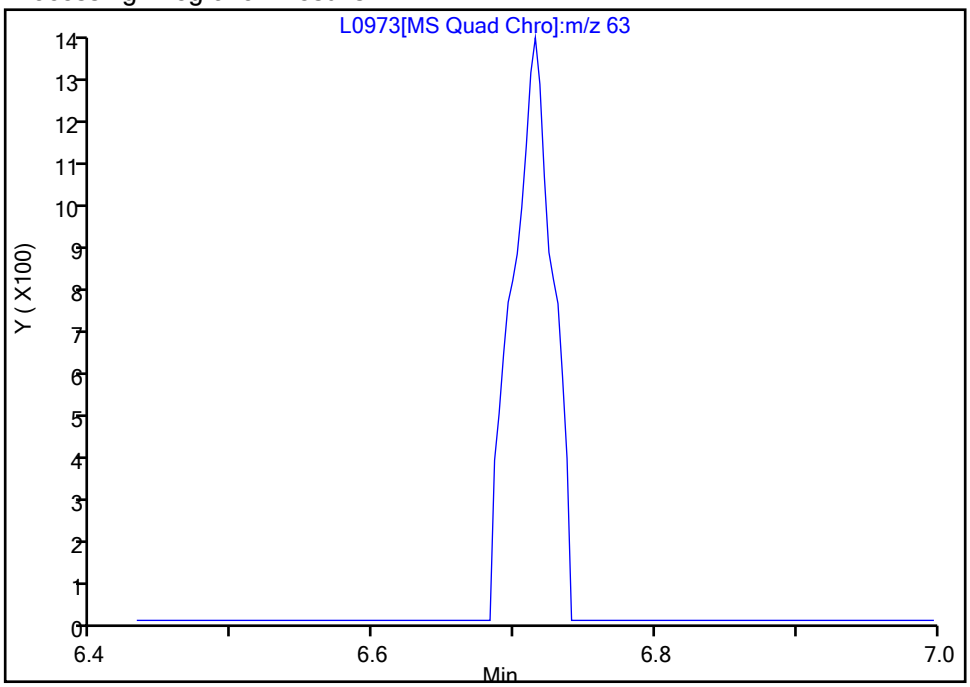
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

84 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

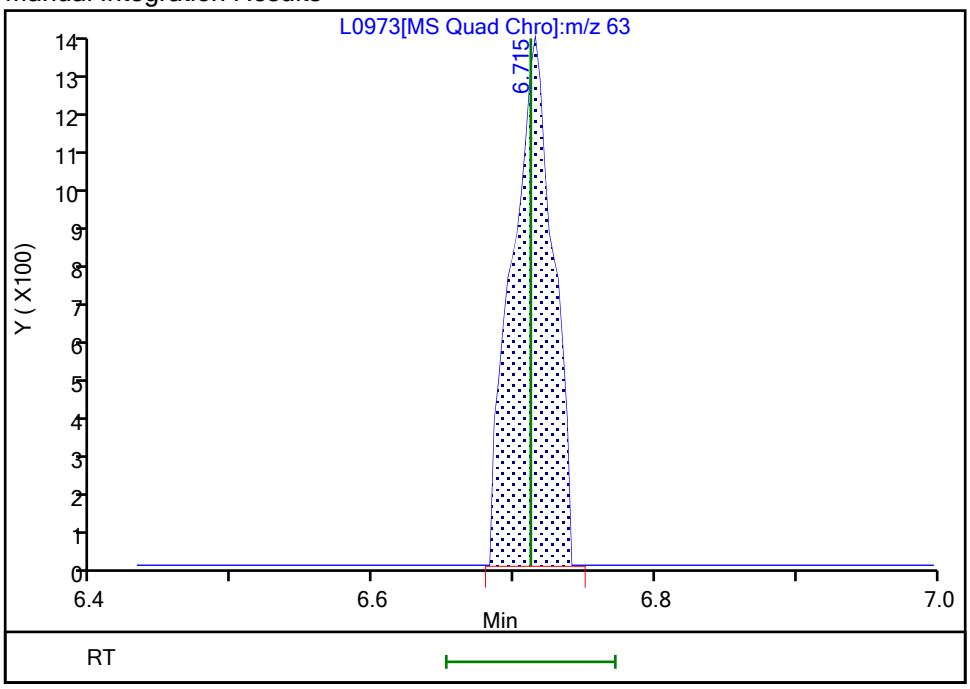
Not Detected
Expected RT: 6.71

Processing Integration Results



Manual Integration Results

RT: 6.71
Area: 2676
Amount: 0.385847
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:09:47 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

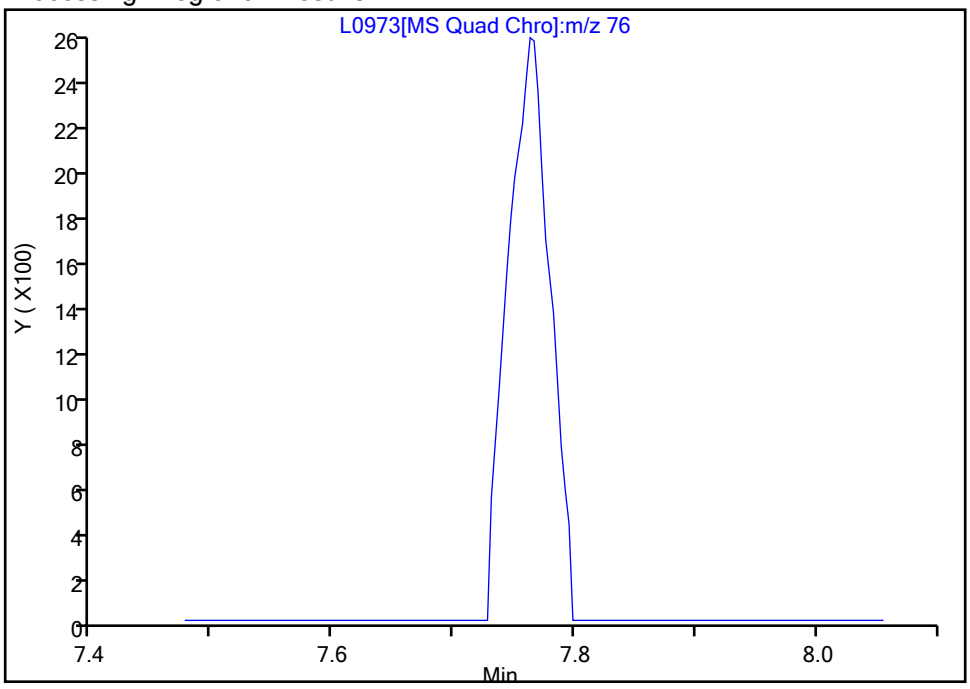
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

95 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

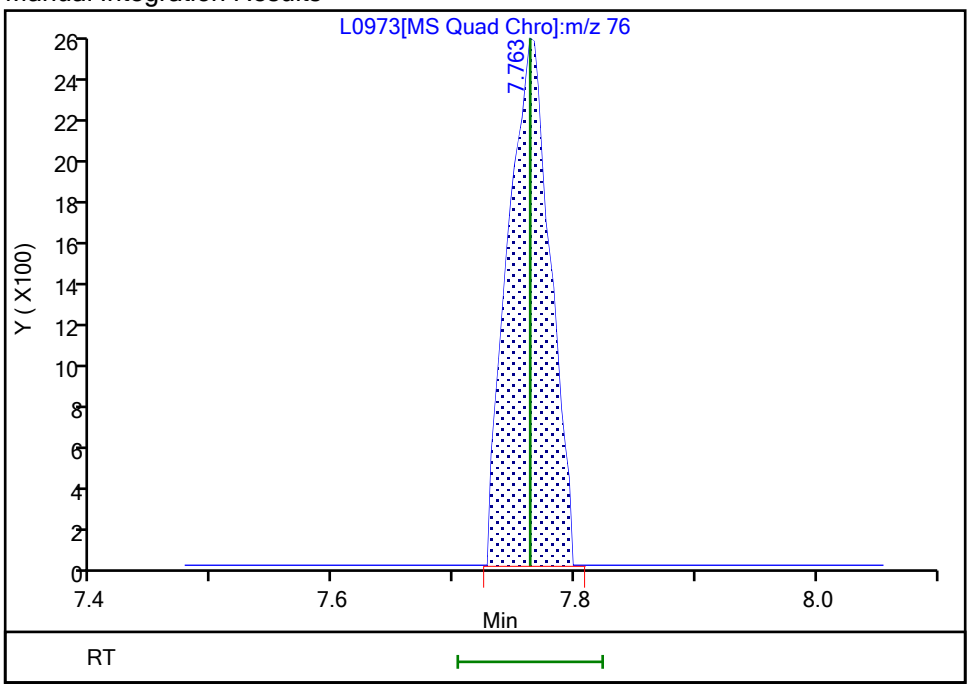
Not Detected
Expected RT: 7.76

Processing Integration Results



Manual Integration Results

RT: 7.76
Area: 6099
Amount: 0.402528
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:09:57 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

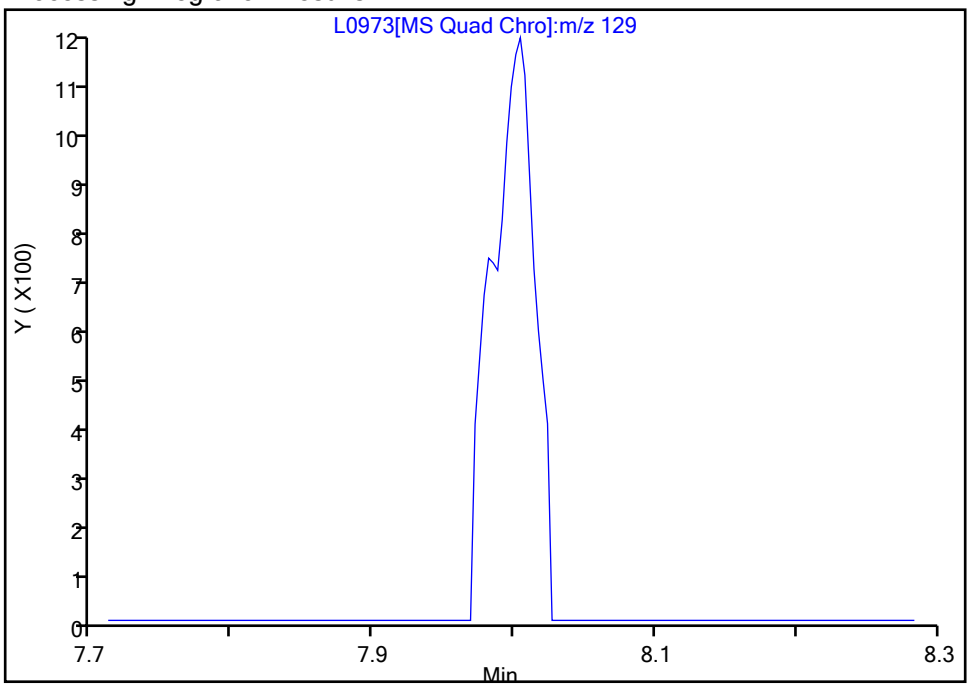
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

98 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

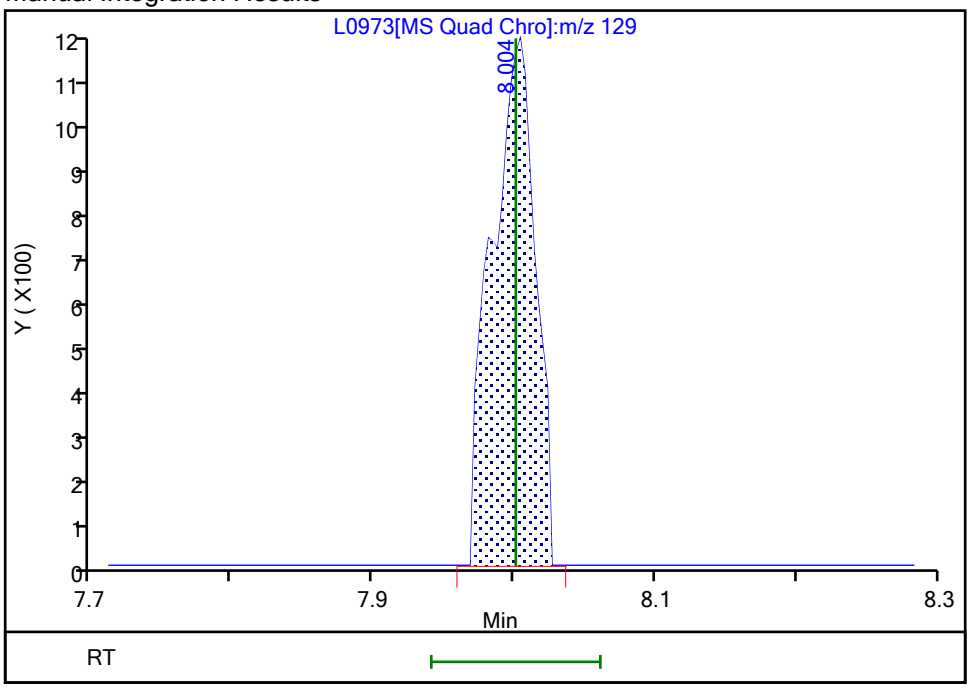
Not Detected
Expected RT: 8.00

Processing Integration Results



Manual Integration Results

RT: 8.00
Area: 2366
Amount: 0.322177
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:10:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

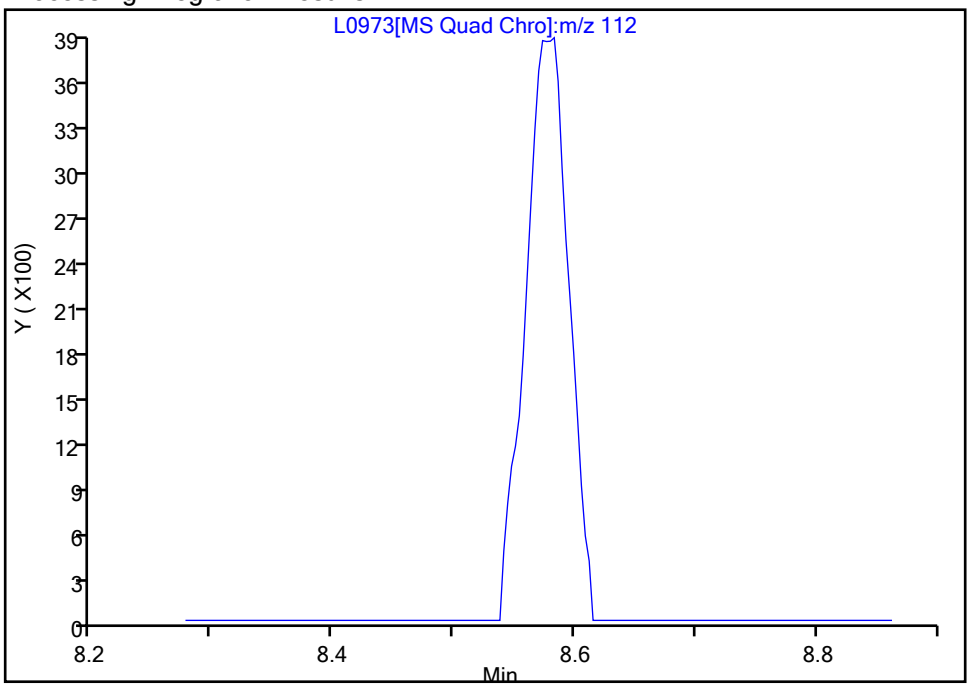
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

103 Chlorobenzene, CAS: 108-90-7

Signal: 1

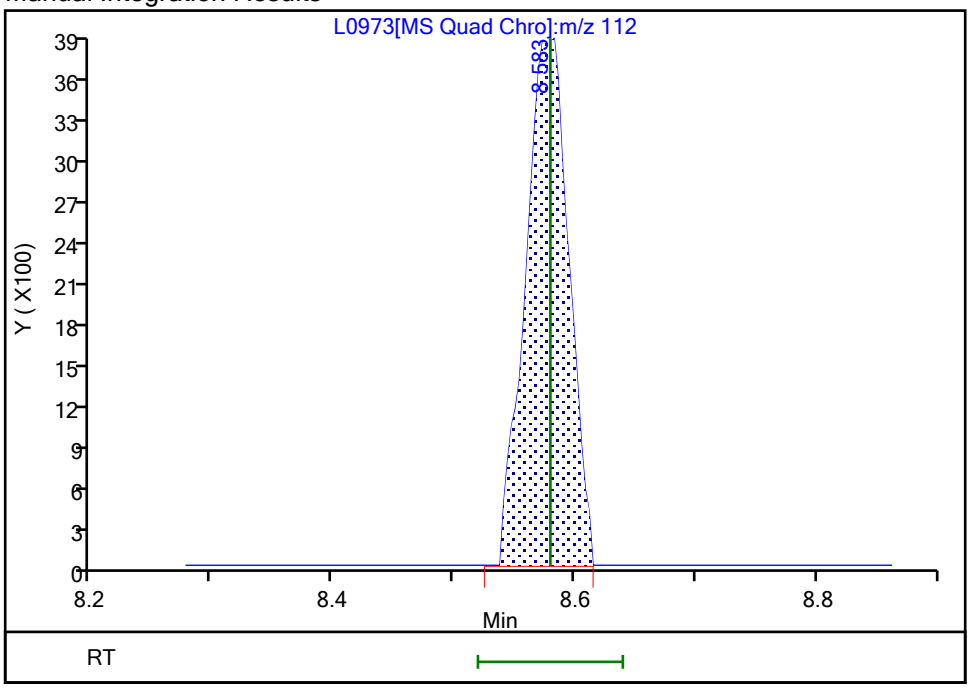
Not Detected
Expected RT: 8.58

Processing Integration Results



Manual Integration Results

RT: 8.58
Area: 9551
Amount: 0.385460
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:10:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

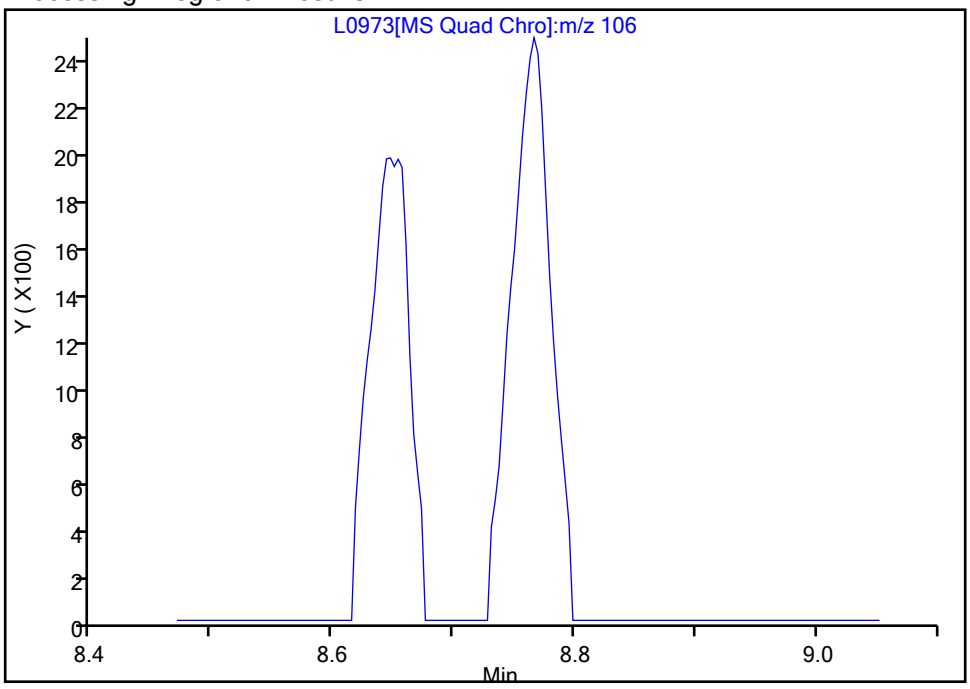
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

106 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

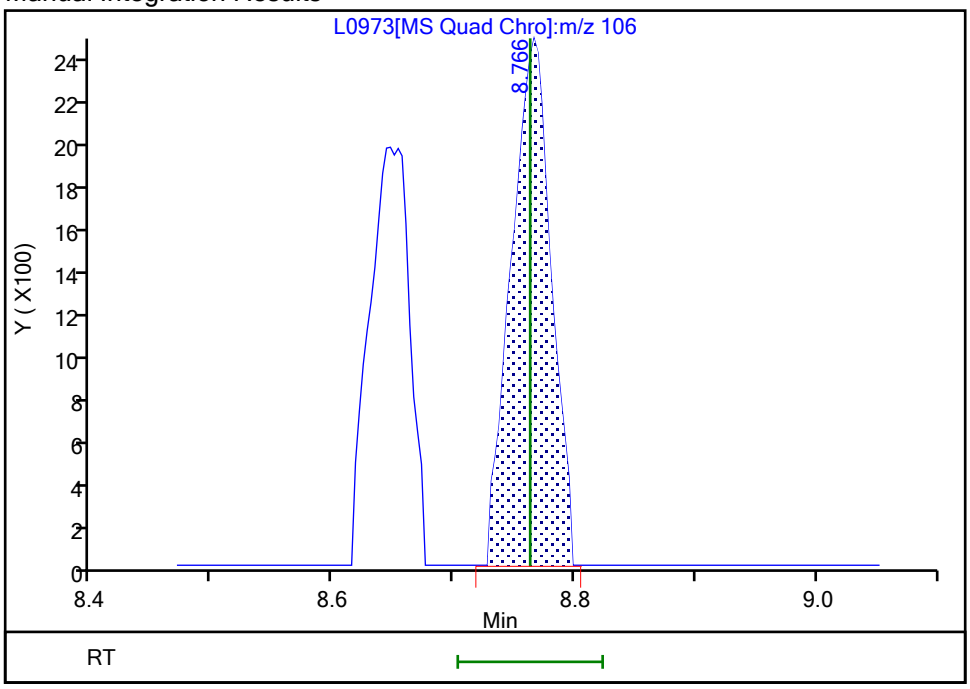
Not Detected
Expected RT: 8.76

Processing Integration Results



Manual Integration Results

RT: 8.77
Area: 5610
Amount: 0.342020
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:10:17 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

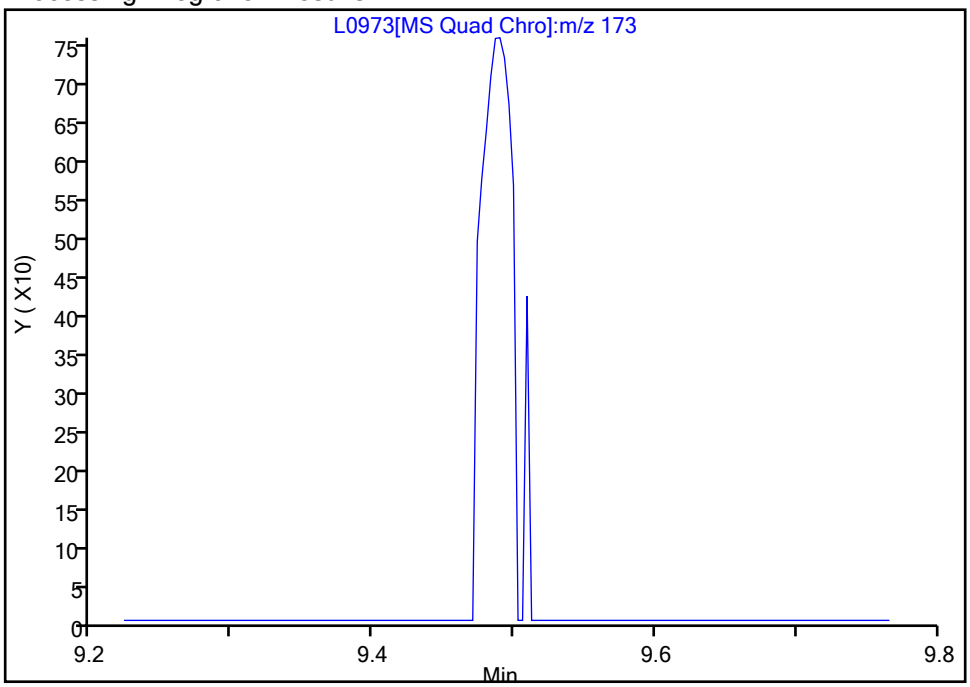
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

110 Bromoform, CAS: 75-25-2

Signal: 1

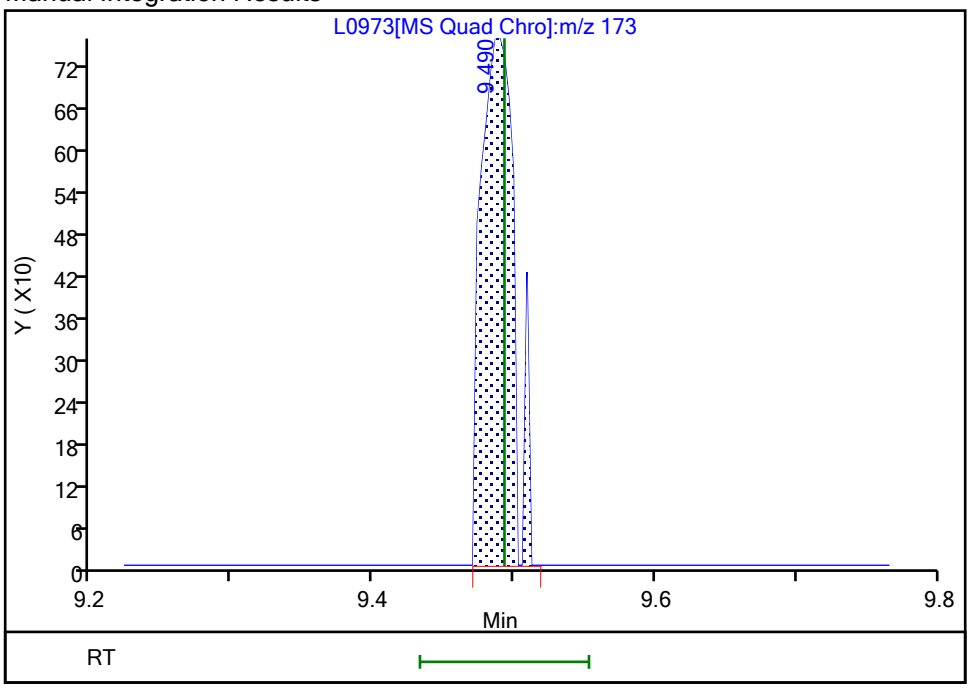
Not Detected
Expected RT: 9.49

Processing Integration Results



Manual Integration Results

RT: 9.49
Area: 1219
Amount: 0.803061
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:10:23 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

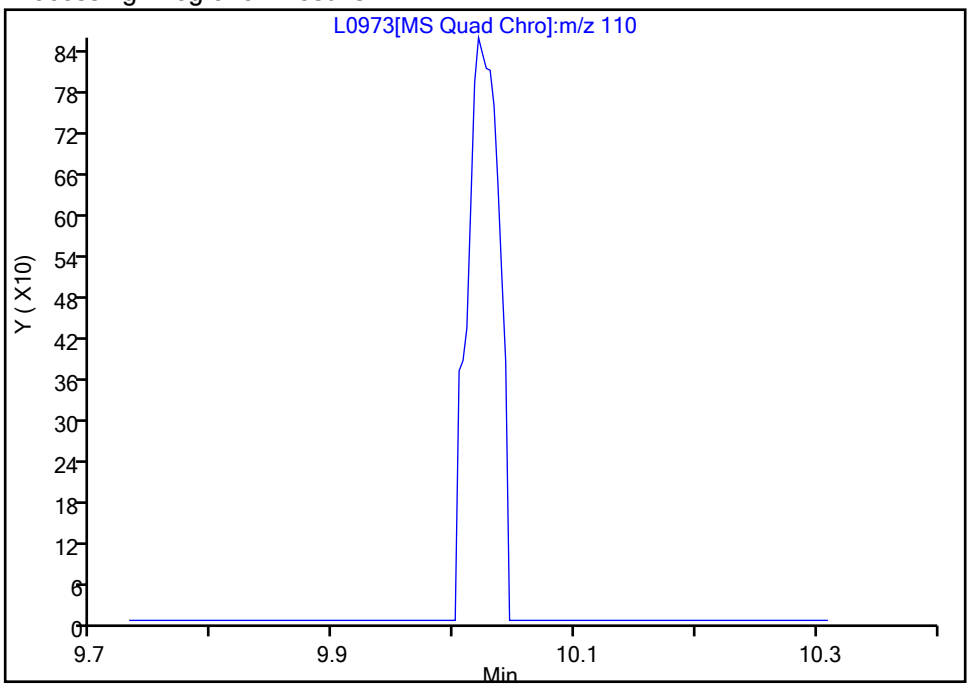
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

116 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

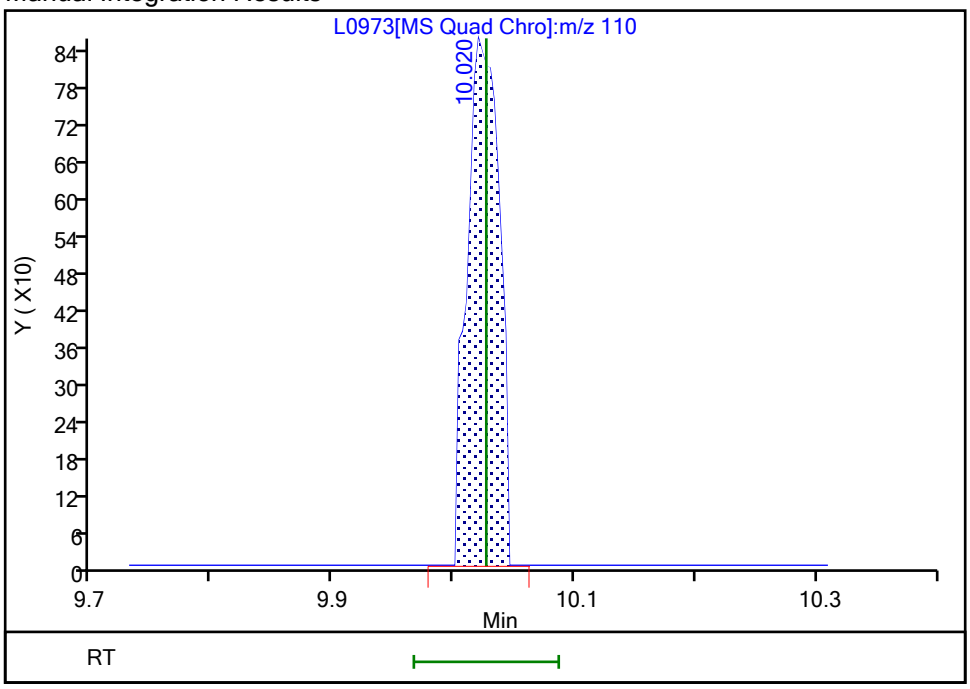
Not Detected
Expected RT: 10.03

Processing Integration Results



Manual Integration Results

RT: 10.02
Area: 1578
Amount: 0.341668
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:10:32 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

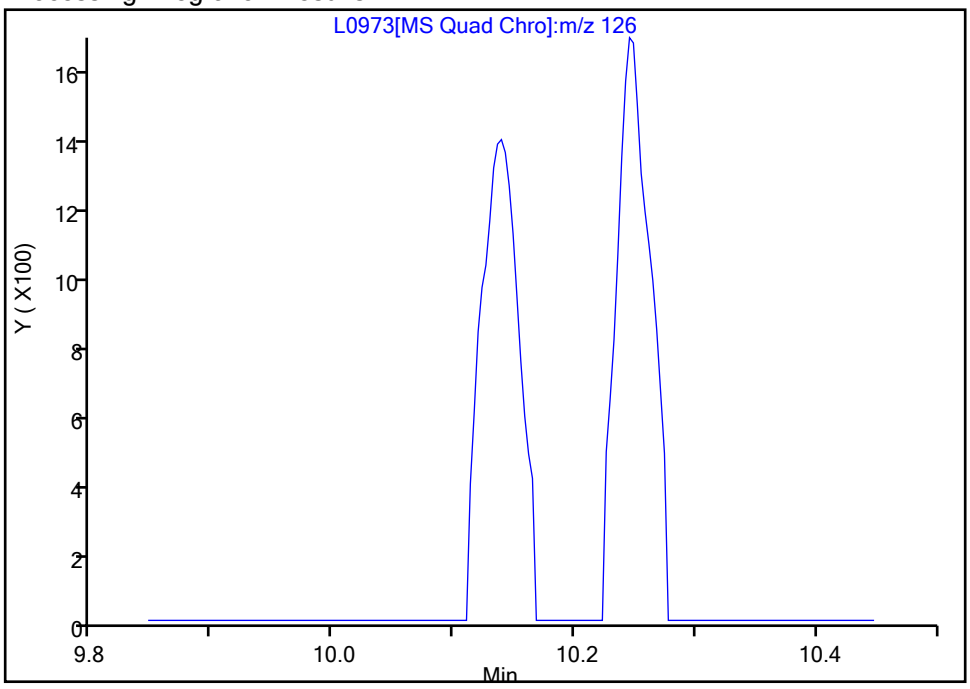
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

117 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

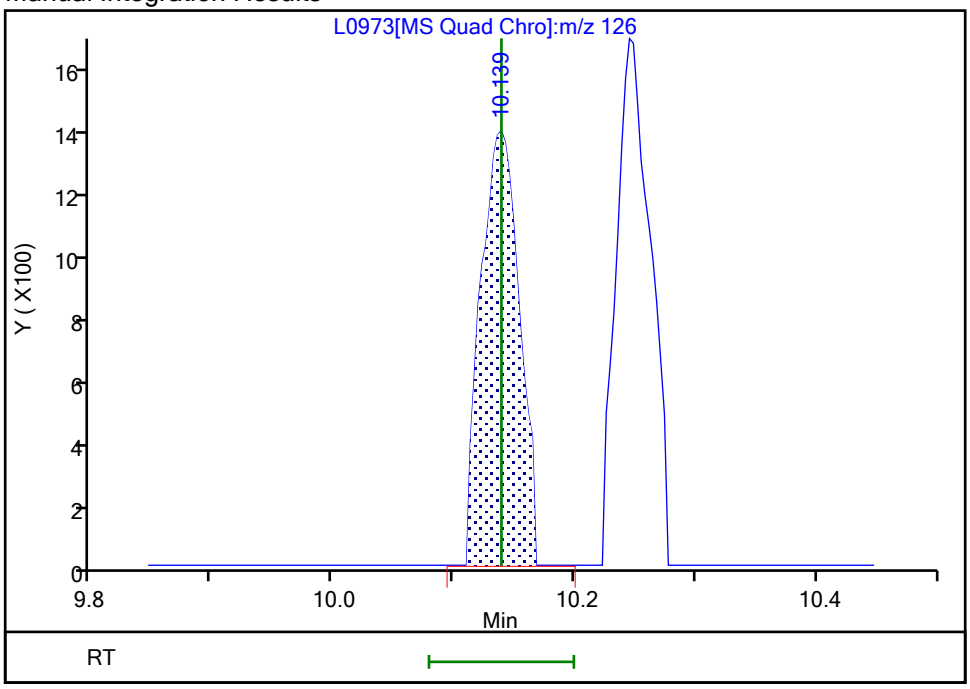
Not Detected
Expected RT: 10.14

Processing Integration Results



Manual Integration Results

RT: 10.14
Area: 3050
Amount: 0.297176
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:10:38 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

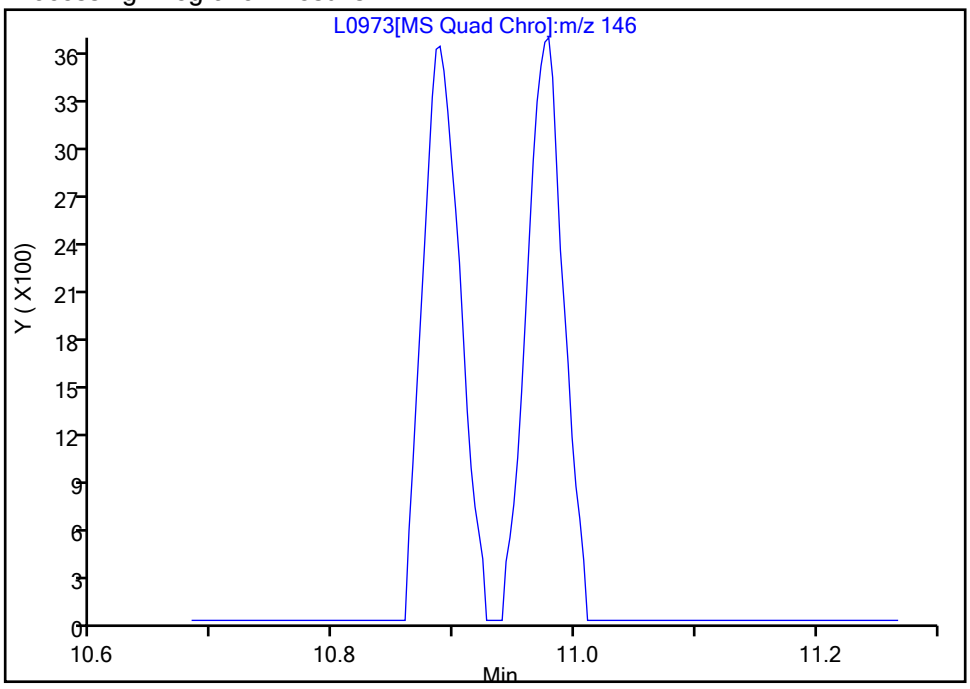
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0973.D
Injection Date: 25-Sep-2023 14:59:36 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

126 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

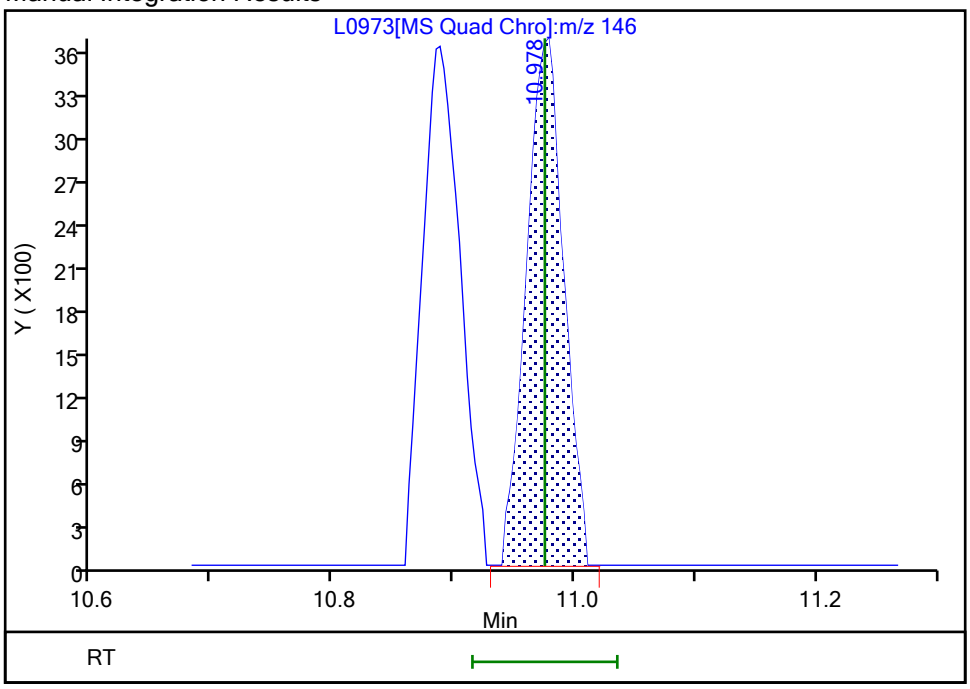
Not Detected
Expected RT: 10.98

Processing Integration Results



Manual Integration Results

RT: 10.98
Area: 7721
Amount: 0.364057
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:10:47 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Sep-2023 15:24:11 ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0113942-015
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:42:04 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 10:13:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.673	-0.003	99	145030	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.544	8.548	-0.004	86	559256	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	308366	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	180625	25.0	24.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	97	229201	25.0	24.9	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	719910	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.789	-0.003	98	196356	25.0	24.4	
10 Dichlorodifluoromethane	85	1.728	1.721	0.007	96	10437	1.00	0.8121	
13 Chloromethane	50	1.943	1.937	0.006	95	12761	1.00	0.8769	
14 Vinyl chloride	62	2.049	2.056	-0.007	95	7247	1.00	0.7845	
15 Butadiene	54	2.078	2.075	0.003	94	7502	1.00	0.8053	
18 Bromomethane	94	2.413	2.416	-0.003	0	1741	1.00	1.28	M
19 Chloroethane	64	2.487	2.480	0.007	90	4629	1.00	0.8511	
20 Dichlorofluoromethane	67	2.699	2.699	0.000	94	9538	1.00	0.7567	
21 Trichlorofluoromethane	101	2.728	2.721	0.007	65	4969	1.00	1.06	
26 Ethyl ether	59	2.953	2.950	0.003	90	8963	1.00	1.03	
28 Acrolein	56	3.127	3.130	-0.003	95	4329	5.00	4.45	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.156	3.155	0.001	86	6856	1.00	0.8282	
30 1,1-Dichloroethene	96	3.194	3.187	0.007	94	7025	1.00	0.8596	
31 Acetone	43	3.268	3.271	-0.003	99	19843	5.00	5.54	
33 Iodomethane	142	3.358	3.355	0.003	98	12258	1.00	0.9056	
35 Carbon disulfide	76	3.410	3.406	0.004	0	12538	1.00	1.21	M
37 3-Chloro-1-propene	41	3.500	3.503	-0.003	88	13917	1.00	0.9053	
38 Methyl acetate	43	3.532	3.528	0.004	98	22284	2.00	1.97	
39 Methylene Chloride	84	3.644	3.647	-0.003	96	12258	1.00	0.8612	
40 2-Methyl-2-propanol	59	3.744	3.747	-0.003	96	10014	10.0	10.3	
41 Methyl tert-butyl ether	73	3.811	3.808	0.003	98	27965	1.00	1.01	
42 trans-1,2-Dichloroethene	96	3.844	3.837	0.007	98	8047	1.00	0.8735	
44 Acrylonitrile	53	3.882	3.879	0.003	100	53777	10.0	10.1	
47 Hexane	57	3.998	3.998	0.000	94	12560	1.00	0.8686	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	94	14968	1.00	0.9338	
49 Vinyl acetate	43	4.233	4.229	0.004	97	46515	2.00	1.91	
56 2,2-Dichloropropane	77	4.686	4.686	0.000	85	6513	1.00	0.9293	
58 cis-1,2-Dichloroethene	96	4.709	4.708	0.001	75	9391	1.00	0.9385	
57 2-Butanone (MEK)	43	4.725	4.721	0.004	99	34642	5.00	4.91	M
60 Chlorobromomethane	128	4.930	4.930	0.000	96	4585	1.00	0.9379	
61 Tetrahydrofuran	42	4.950	4.946	0.004	92	11303	2.00	2.20	
62 Chloroform	83	4.979	4.978	0.001	94	15429	1.00	0.9682	
64 1,1,1-Trichloroethane	97	5.114	5.110	0.004	0	10365	1.00	0.8682	M
65 Cyclohexane	56	5.127	5.130	-0.003	35	14095	1.00	0.8215	
66 Carbon tetrachloride	117	5.236	5.239	-0.003	70	7352	1.00	0.7647	
67 1,1-Dichloropropene	75	5.239	5.242	-0.003	89	10439	1.00	0.8568	
69 Isobutyl alcohol	43	5.374	5.367	0.007	97	18828	25.0	27.7	
70 Benzene	78	5.435	5.435	0.000	96	33573	1.00	0.9482	
72 1,2-Dichloroethane	62	5.490	5.486	0.004	96	12872	1.00	1.02	
73 n-Heptane	43	5.548	5.551	-0.003	94	14559	1.00	0.8854	
75 Trichloroethene	95	5.985	5.988	-0.003	93	7877	1.00	0.8702	
76 Methylcyclohexane	83	6.107	6.110	-0.003	90	12804	1.00	0.7943	
77 1,2-Dichloropropane	63	6.220	6.220	0.000	94	8292	1.00	0.9285	
81 1,4-Dioxane	88	6.345	6.339	0.006	44	685	20.0	8.23	
82 Dibromomethane	93	6.355	6.355	0.000	92	5304	1.00	0.9546	
83 Dichlorobromomethane	83	6.477	6.480	-0.003	94	7874	1.00	0.7817	
84 2-Chloroethyl vinyl ether	63	6.715	6.712	0.003	0	5854	1.00	0.8822	M
85 cis-1,3-Dichloropropene	75	6.869	6.869	0.000	93	12350	1.00	0.9088	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.985	0.000	97	74476	5.00	5.04	
88 Toluene	92	7.155	7.155	0.000	98	20506	1.00	0.9660	
91 trans-1,3-Dichloropropene	75	7.406	7.406	0.000	94	9689	1.00	0.8263	
90 Ethyl methacrylate	69	7.413	7.412	0.001	89	11145	1.00	0.9112	
93 1,1,2-Trichloroethane	83	7.593	7.596	-0.003	0	6355	1.00	0.9549	M
94 Tetrachloroethene	166	7.673	7.679	-0.006	87	7271	1.00	0.8381	
95 1,3-Dichloropropane	76	7.760	7.763	-0.003	92	14205	1.00	1.01	
96 2-Hexanone	43	7.792	7.792	0.000	98	49706	5.00	4.83	
98 Chlorodibromomethane	129	7.998	8.001	-0.003	0	5941	1.00	0.8673	M
101 Ethylene Dibromide	107	8.130	8.123	0.007	0	7543	1.00	0.9037	M
103 Chlorobenzene	112	8.573	8.580	-0.007	95	22407	1.00	0.9695	
104 Ethylbenzene	91	8.647	8.647	0.000	98	35862	1.00	0.9079	
105 1,1,1,2-Tetrachloroethane	131	8.667	8.660	0.007	88	6597	1.00	0.8996	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.000	98	12780	1.00	0.8353	
107 o-Xylene	106	9.188	9.194	-0.006	95	14566	1.00	0.9447	
109 Styrene	104	9.220	9.219	0.001	94	21974	1.00	0.9145	
110 Bromoform	173	9.493	9.493	0.000	0	3494	1.00	1.23	M
111 Isopropylbenzene	105	9.564	9.564	0.000	96	33202	1.00	0.8218	
113 Bromobenzene	156	9.962	9.959	0.003	94	9415	1.00	0.9504	
112 1,1,2,2-Tetrachloroethane	83	9.979	9.975	0.003	93	12657	1.00	0.9694	
114 N-Propylbenzene	91	10.011	10.010	0.001	99	40975	1.00	0.8429	
115 trans-1,4-Dichloro-2-butene	53	10.027	10.023	0.004	73	3696	1.00	0.8661	
116 1,2,3-Trichloropropane	110	10.020	10.027	-0.007	0	4091	1.00	0.9543	M
117 2-Chlorotoluene	126	10.136	10.139	-0.003	0	7983	1.00	0.8379	M
118 1,3,5-Trimethylbenzene	105	10.188	10.187	0.001	94	27456	1.00	0.8146	
119 4-Chlorotoluene	91	10.252	10.252	0.000	97	27003	1.00	0.9325	
120 tert-Butylbenzene	134	10.515	10.518	-0.003	93	6267	1.00	0.8302	
121 1,2,4-Trimethylbenzene	105	10.570	10.573	-0.003	97	29366	1.00	0.8340	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	34935	1.00	0.7943	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	97	29521	1.00	0.7948	
124 1,3-Dichlorobenzene	146	10.892	10.888	0.004	95	17773	1.00	0.9248	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	0	18639	1.00	0.9468	M
127 n-Butylbenzene	91	11.245	11.248	-0.003	97	26965	1.00	0.7776	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	96	19231	1.00	0.99	
129 1,2-Dibromo-3-Chloropropane	75	12.033	12.030	0.003	0	2200	1.00	0.8443	M
130 1,2,4-Trichlorobenzene	180	12.657	12.660	-0.003	94	12392	1.00	0.8640	
131 Hexachlorobutadiene	225	12.747	12.747	0.000	89	3967	1.00	0.7200	
132 Naphthalene	128	12.869	12.869	0.000	97	43835	1.00	0.9249	
133 1,2,3-Trichlorobenzene	180	13.065	13.065	0.000	95	12705	1.00	0.9254	
S 141 1,2-Dichloroethene, Total	1				0			1.81	
S 142 Total BTEX	1				0			4.60	
S 144 1,3-Dichloropropene, Total	1				0			1.74	
S 143 Xylenes, Total	1				0			1.78	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00244	Amount Added:	1.00	Units: uL	
GAS CORP mix_00587	Amount Added:	1.00	Units: uL	
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:42:04 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D

Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L

Lims ID: IC

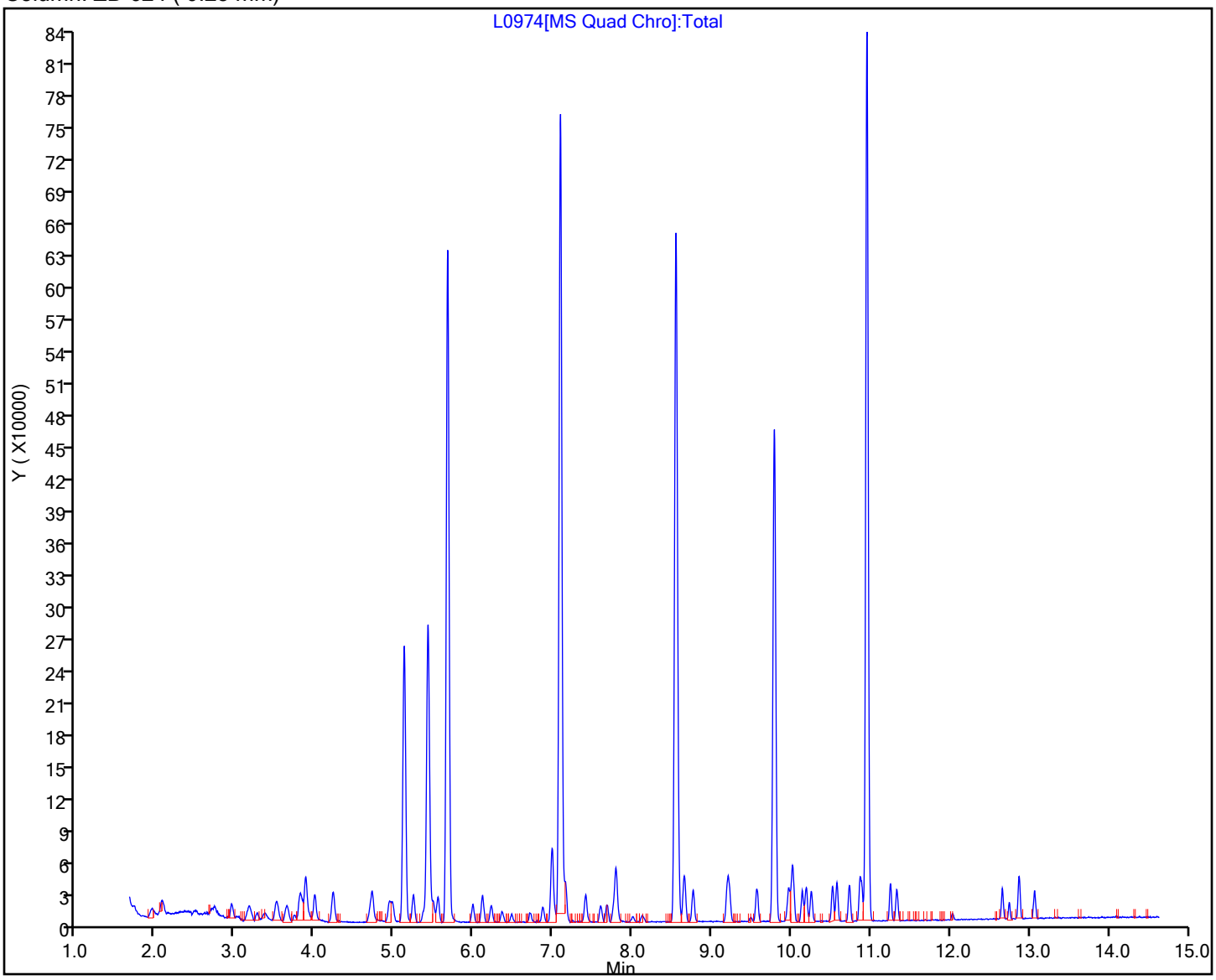
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

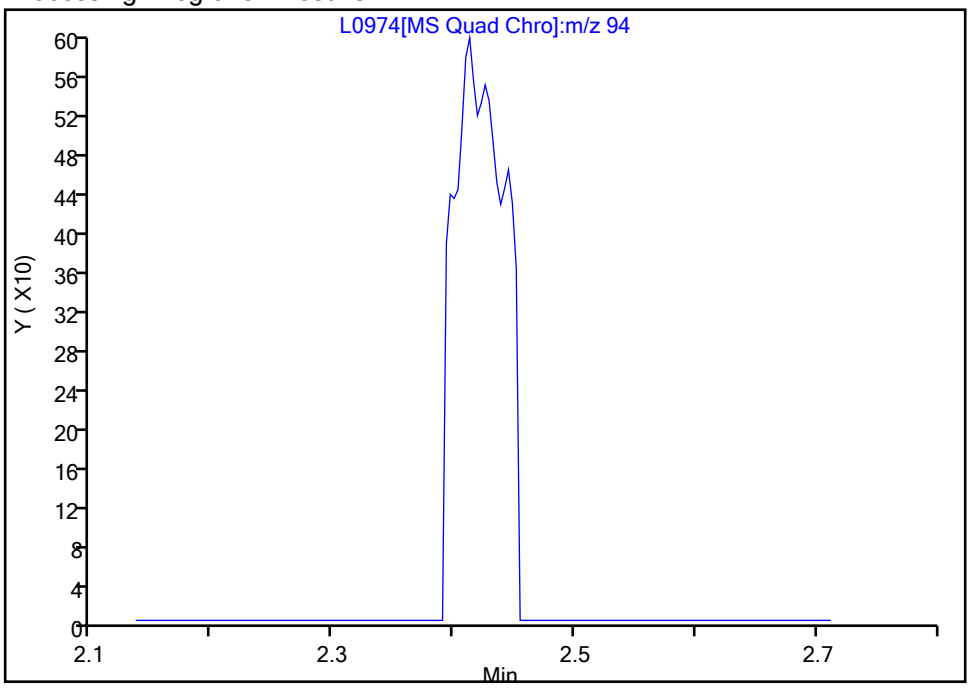
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

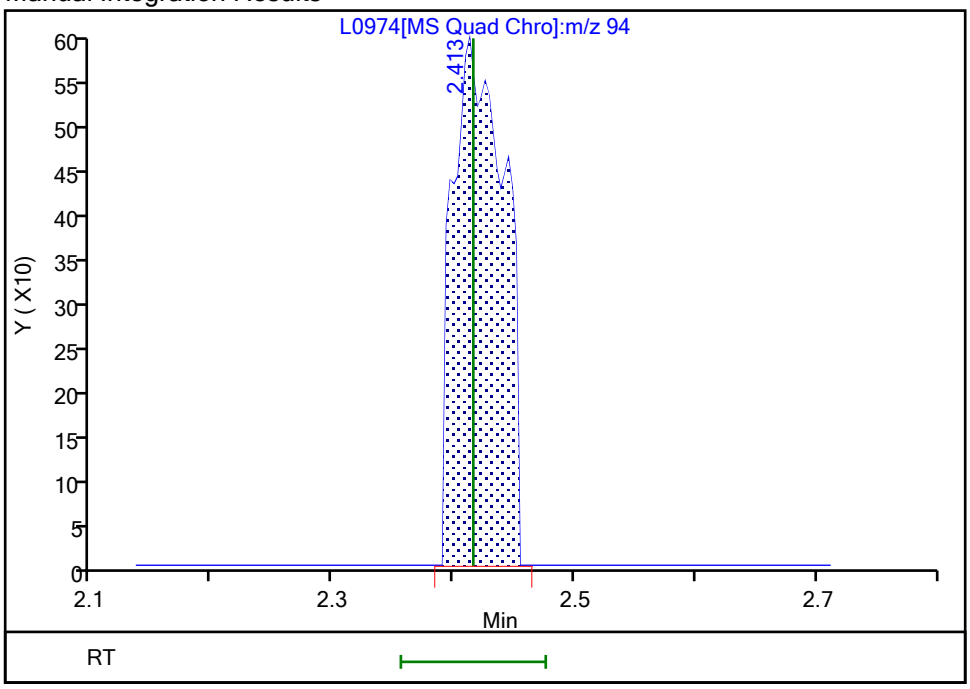
Not Detected
Expected RT: 2.42

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 1741
Amount: 1.277580
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:11:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

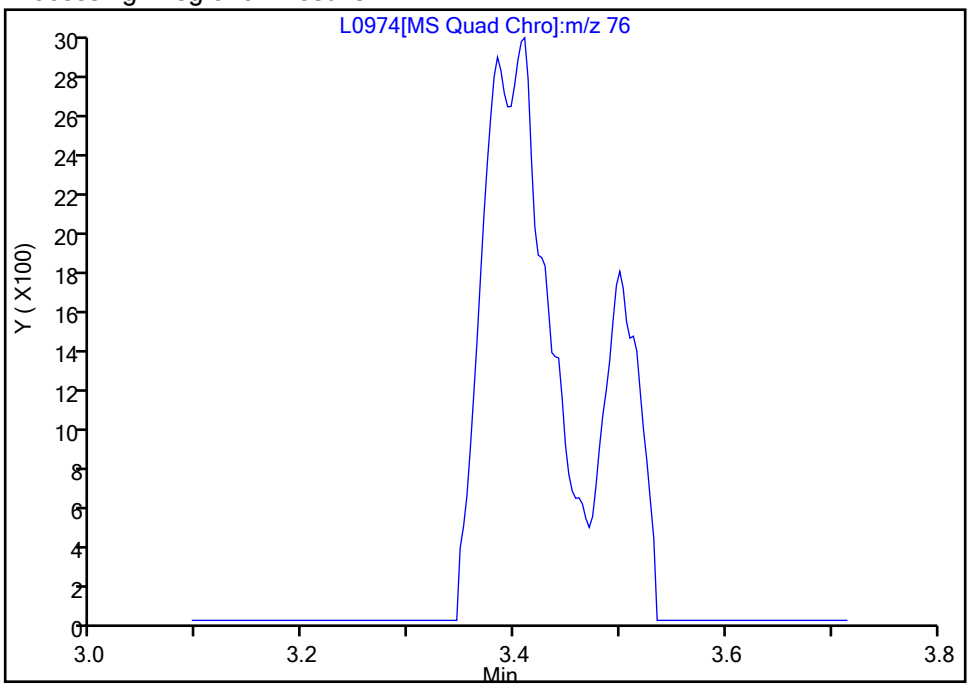
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

35 Carbon disulfide, CAS: 75-15-0

Signal: 1

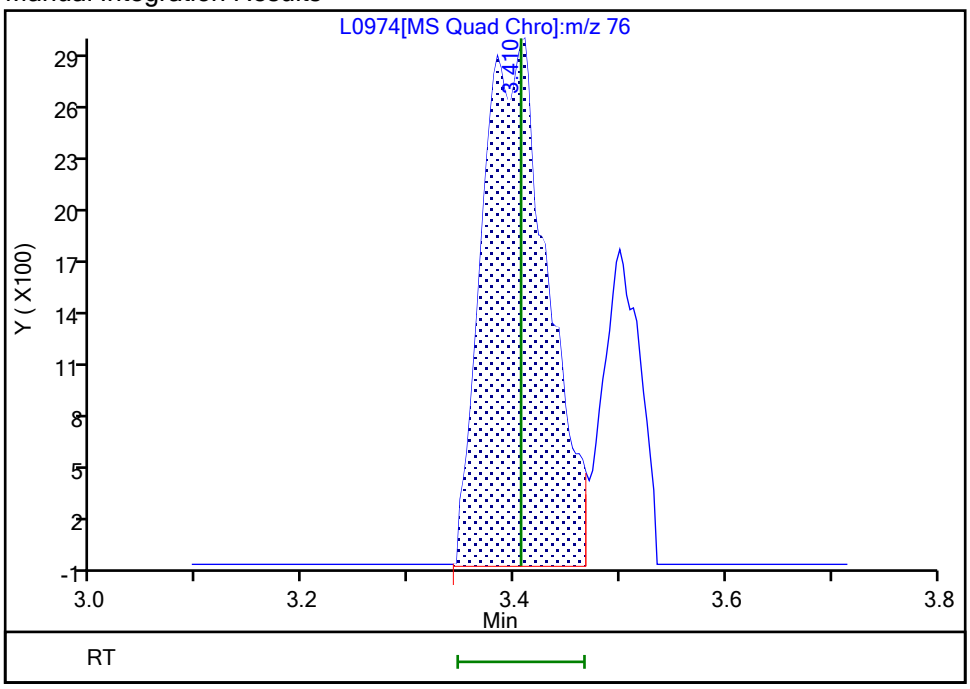
Not Detected
Expected RT: 3.41

Processing Integration Results



Manual Integration Results

RT: 3.41
Area: 12538
Amount: 1.213199
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:11:58 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

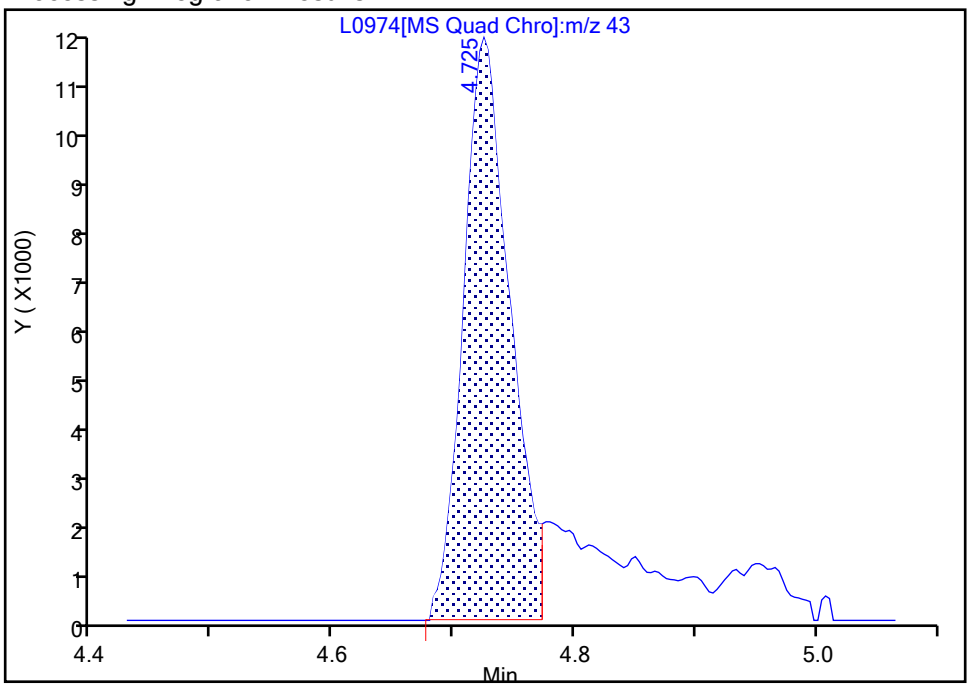
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Signal: 1

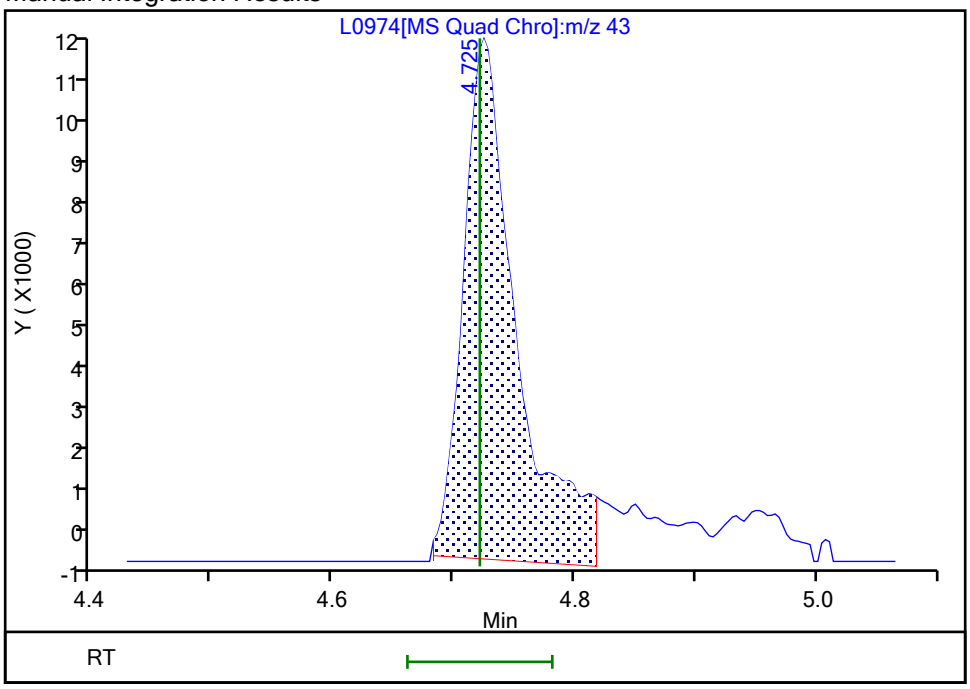
Processing Integration Results

RT: 4.72
Area: 30421
Amount: 4.202473
Amount Units: ug/L



Manual Integration Results

RT: 4.72
Area: 34642
Amount: 4.913678
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:12:20 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

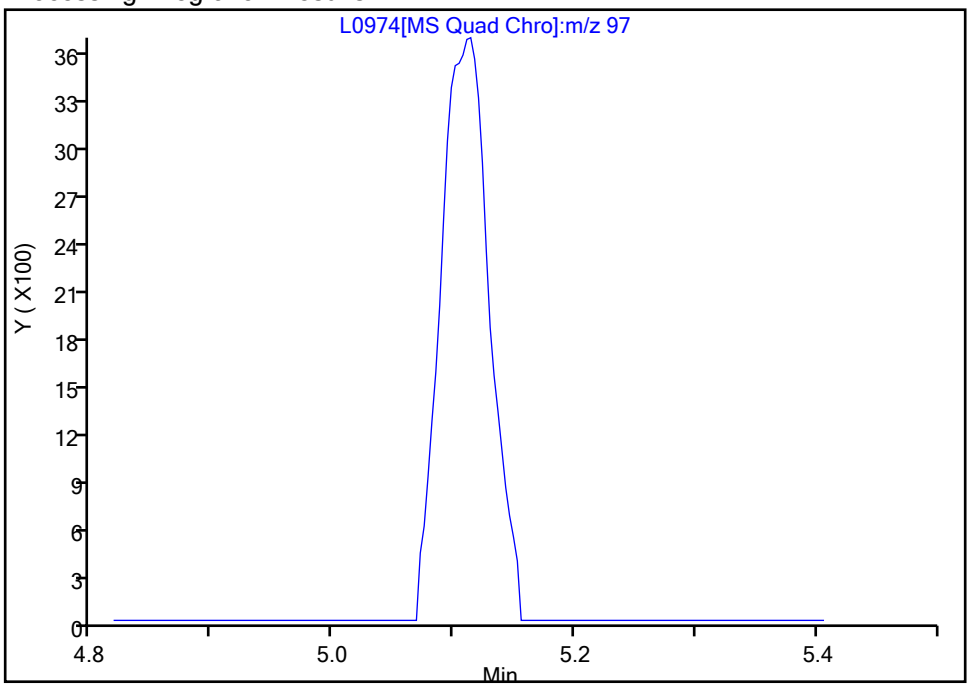
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

64 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

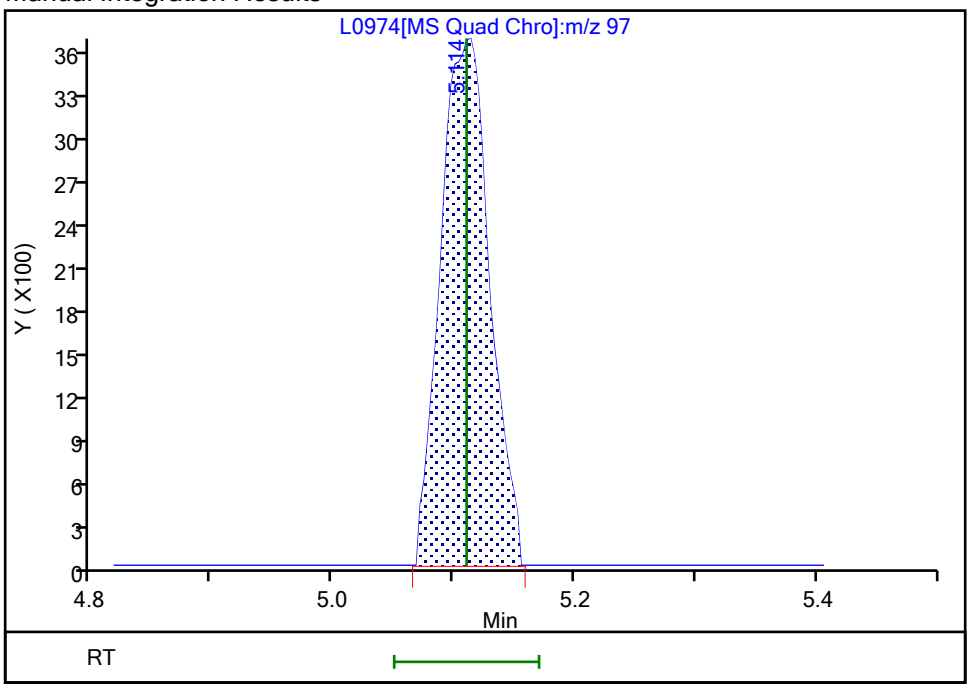
Not Detected
Expected RT: 5.11

Processing Integration Results



Manual Integration Results

RT: 5.11
Area: 10365
Amount: 0.868223
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:12:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

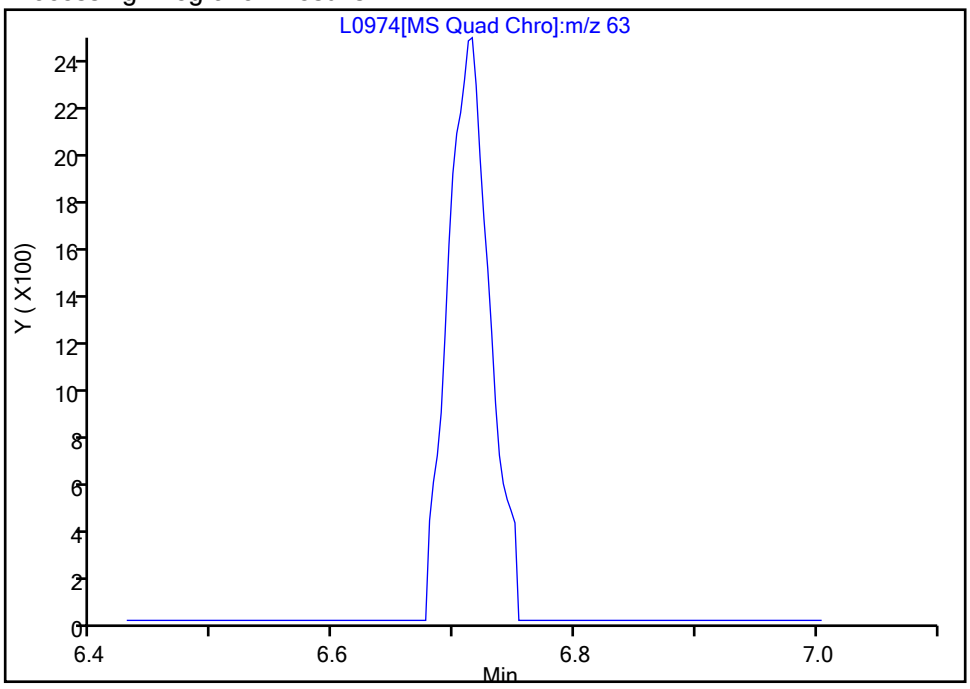
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

84 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

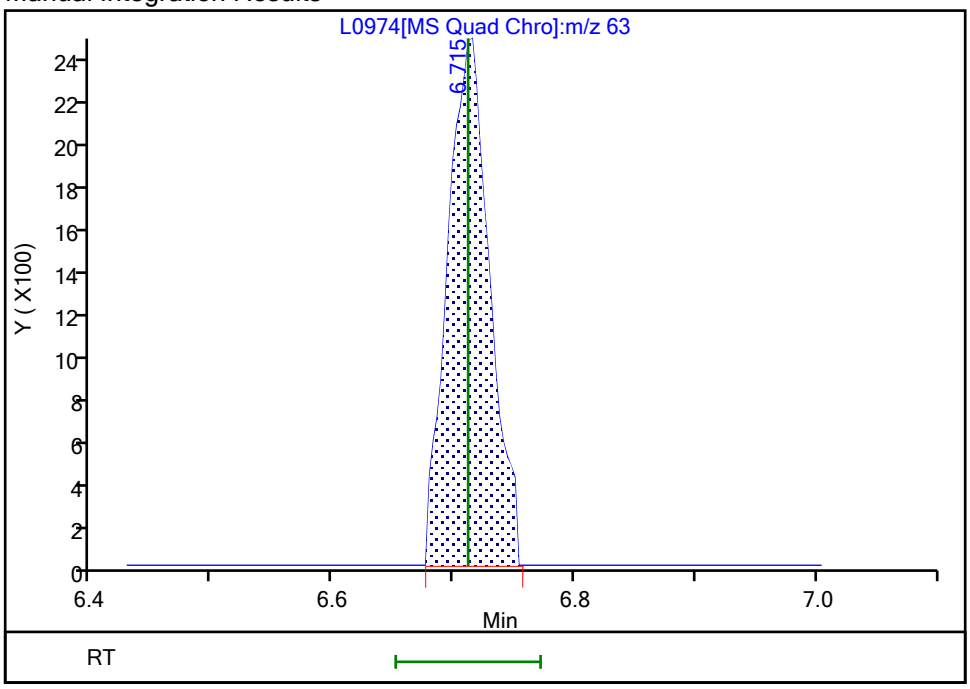
Not Detected
Expected RT: 6.71

Processing Integration Results



Manual Integration Results

RT: 6.71
Area: 5854
Amount: 0.882151
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:12:43 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

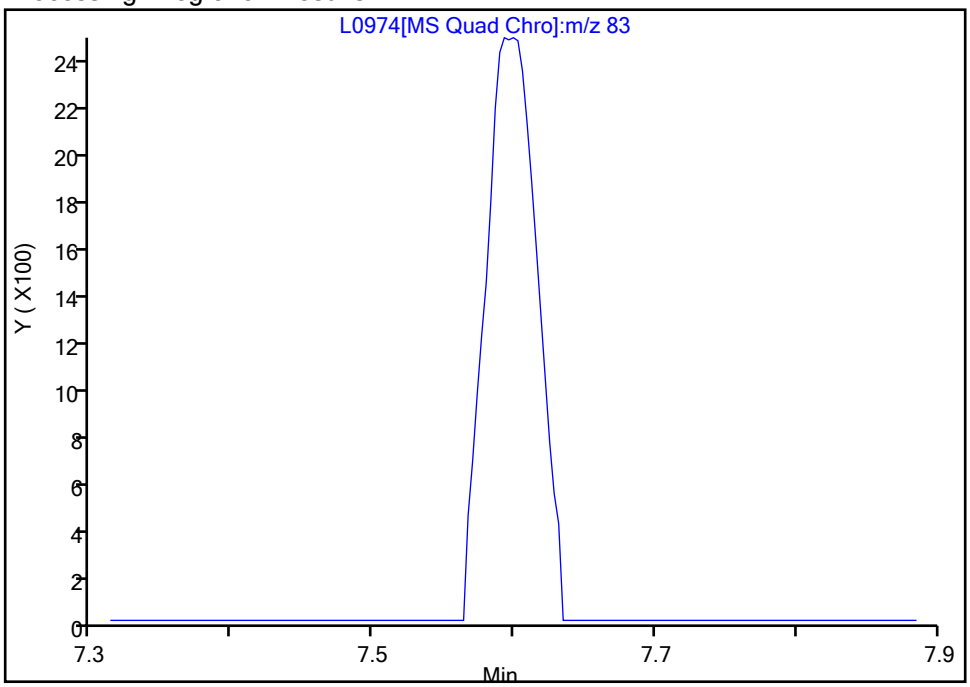
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

93 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

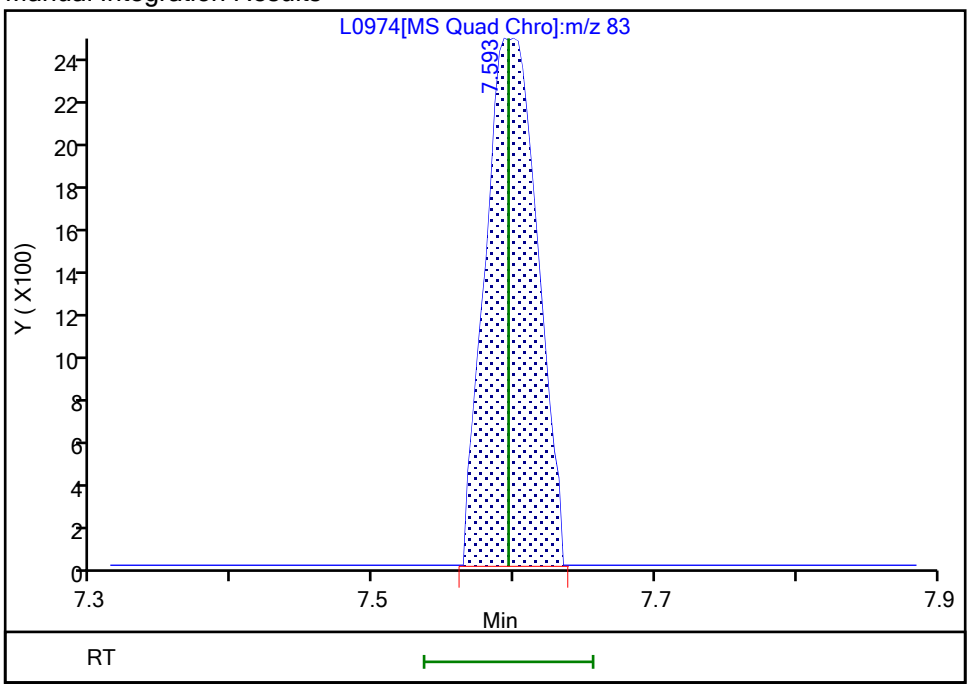
Not Detected
Expected RT: 7.60

Processing Integration Results



Manual Integration Results

RT: 7.59
Area: 6355
Amount: 0.954947
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:12:52 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

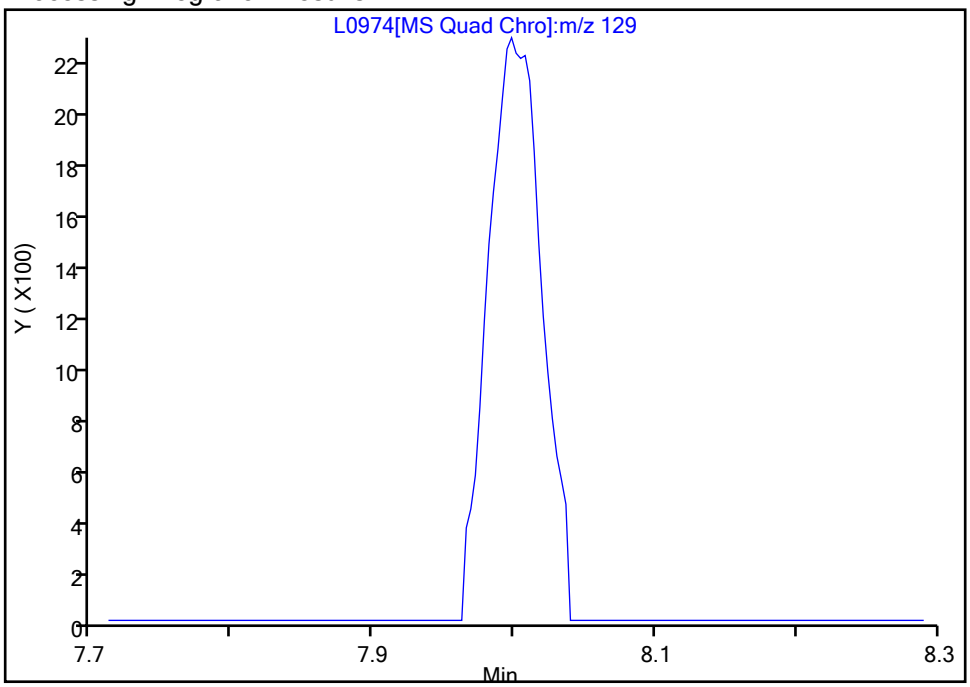
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

98 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

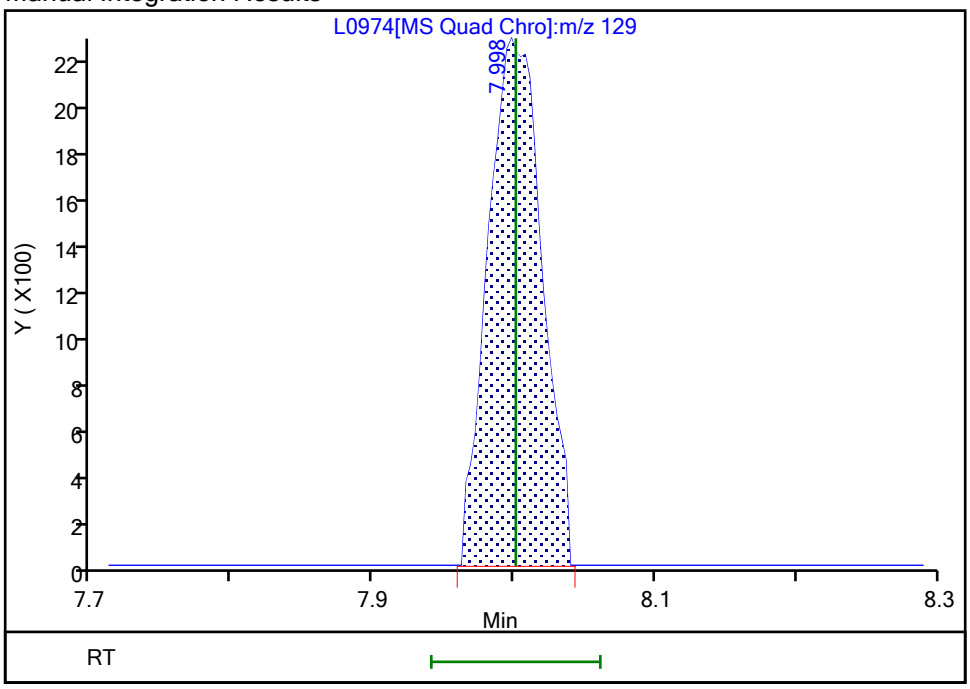
Not Detected
Expected RT: 8.00

Processing Integration Results



Manual Integration Results

RT: 8.00
Area: 5941
Amount: 0.867319
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:12:59 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

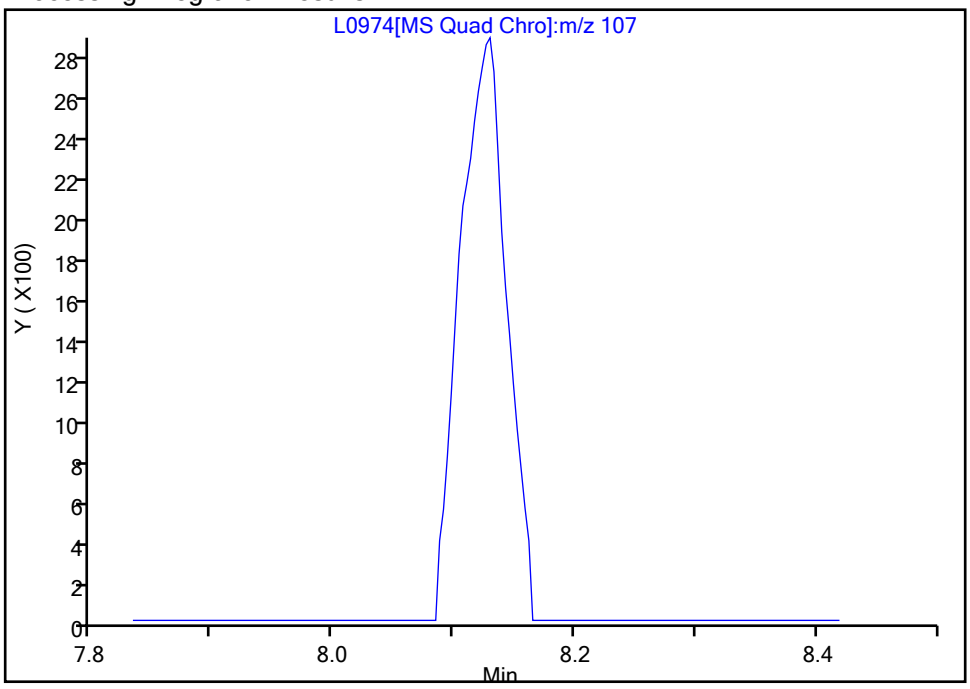
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

101 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

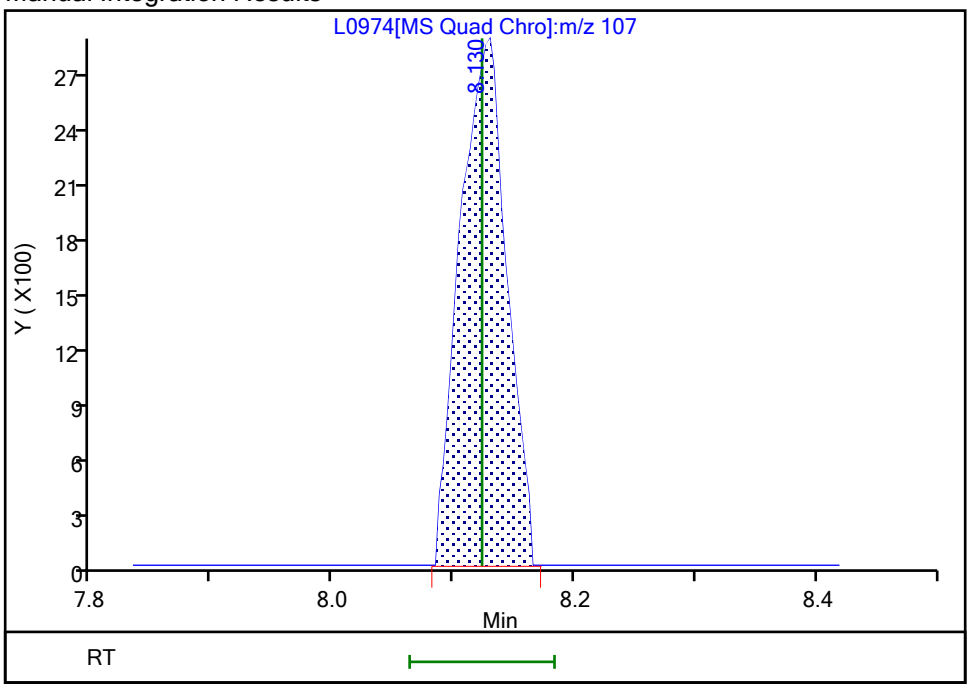
Not Detected
Expected RT: 8.12

Processing Integration Results



Manual Integration Results

RT: 8.13
Area: 7543
Amount: 0.903665
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:13:04 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

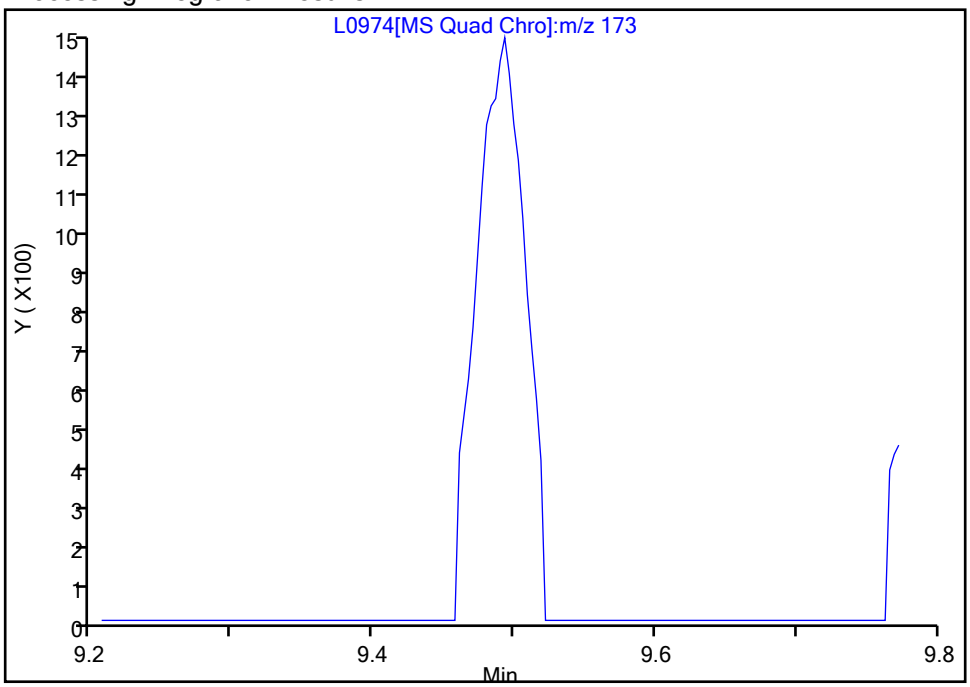
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

110 Bromoform, CAS: 75-25-2

Signal: 1

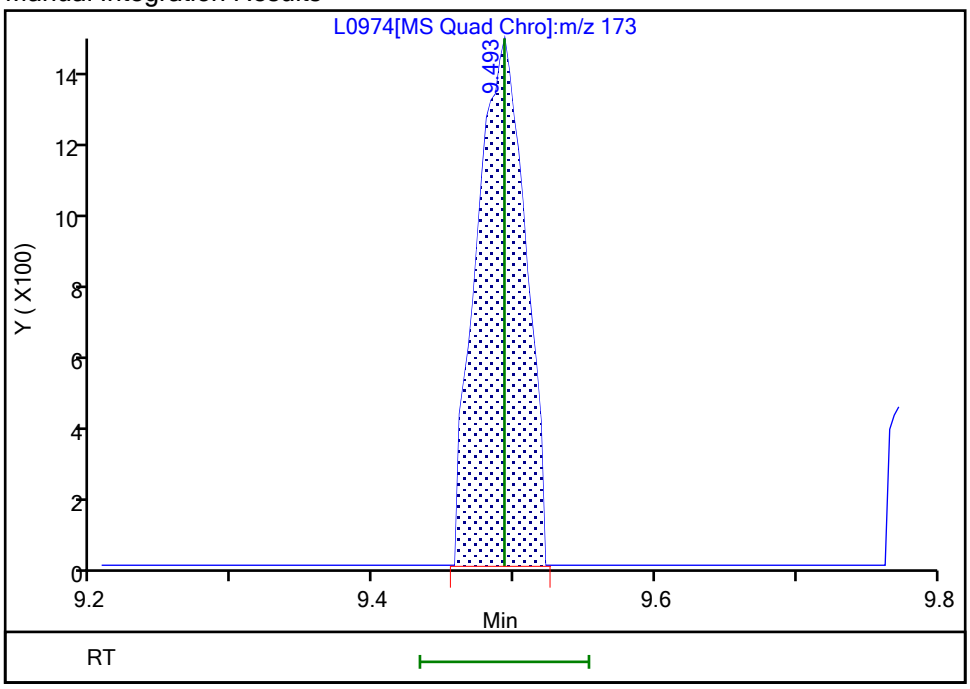
Not Detected
Expected RT: 9.49

Processing Integration Results



Manual Integration Results

RT: 9.49
Area: 3494
Amount: 1.229138
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:13:14 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

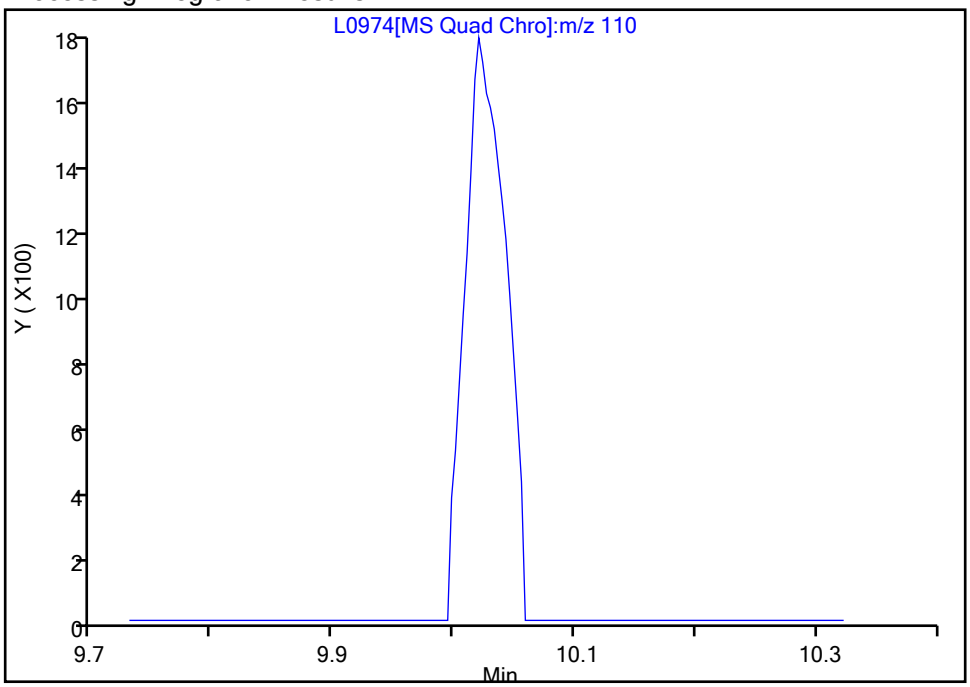
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

116 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

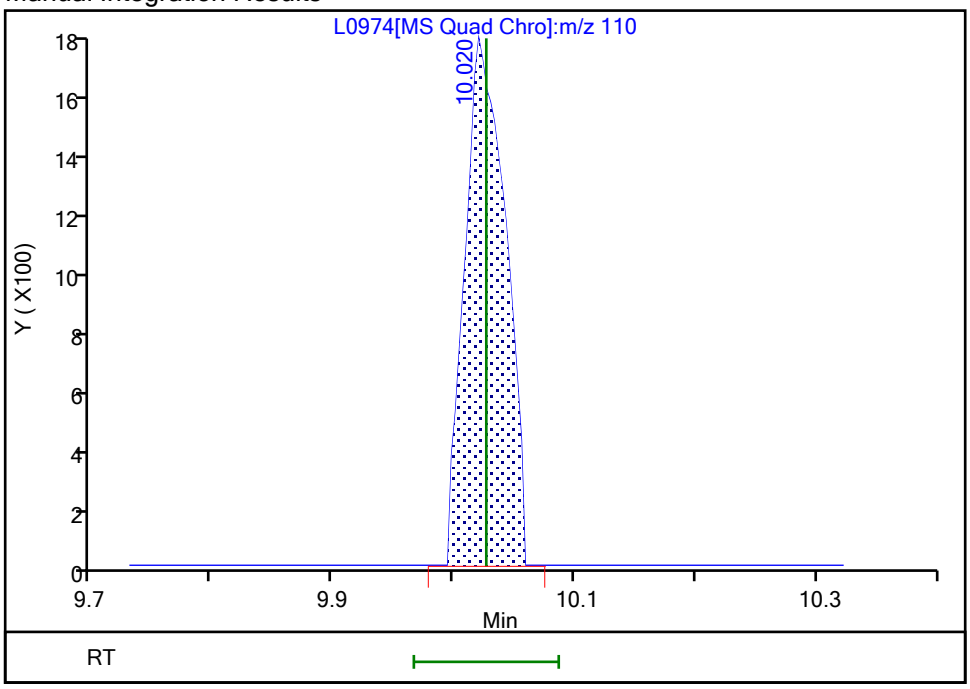
Not Detected
Expected RT: 10.03

Processing Integration Results



Manual Integration Results

RT: 10.02
Area: 4091
Amount: 0.954254
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:13:23 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

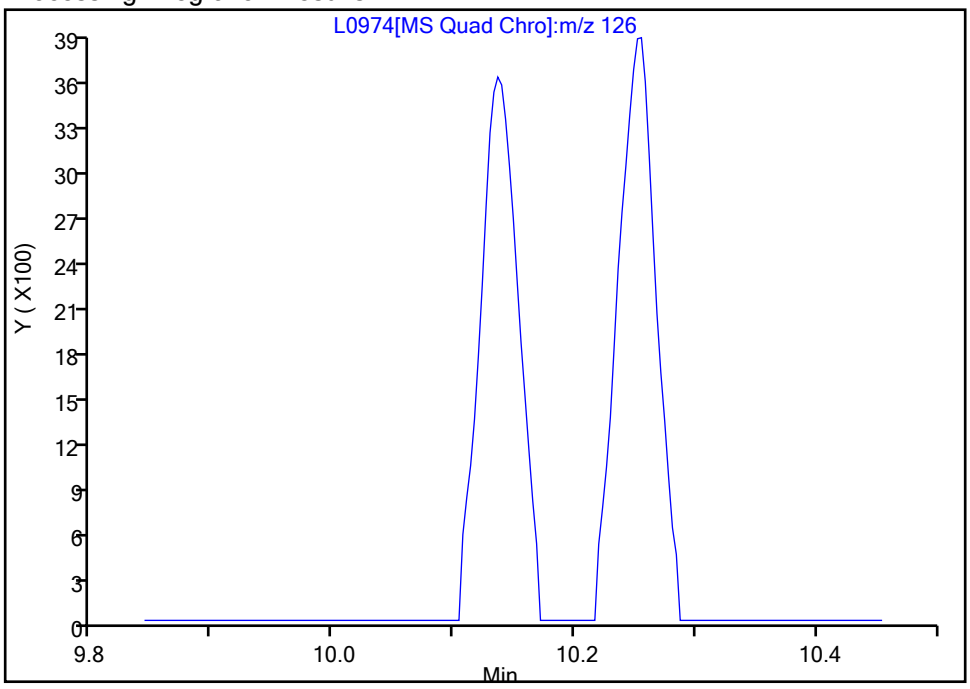
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

117 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

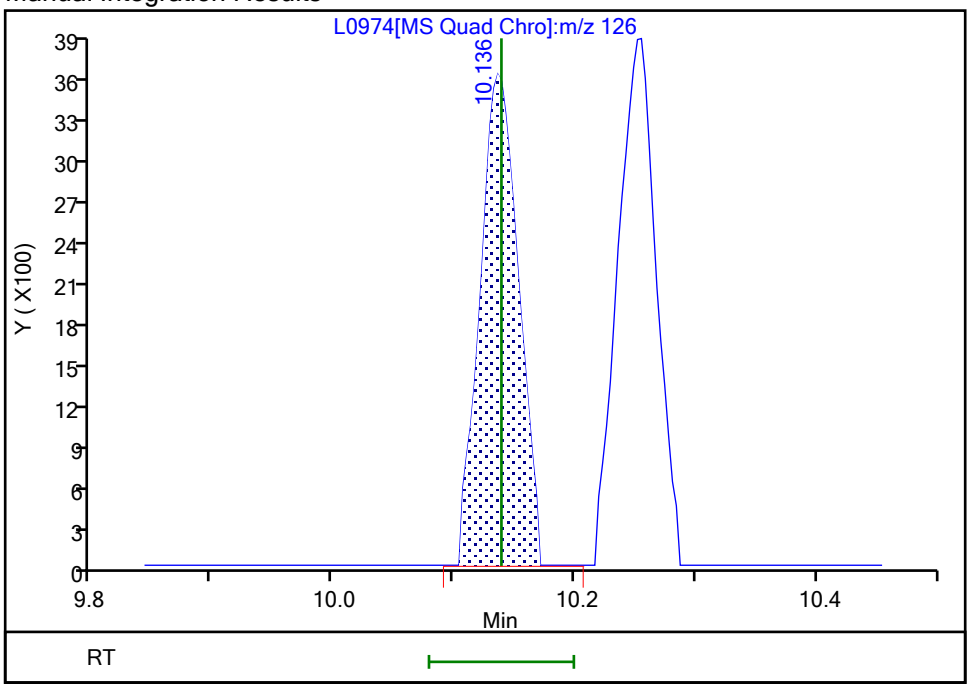
Not Detected
Expected RT: 10.14

Processing Integration Results



Manual Integration Results

RT: 10.14
Area: 7983
Amount: 0.837947
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:13:30 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

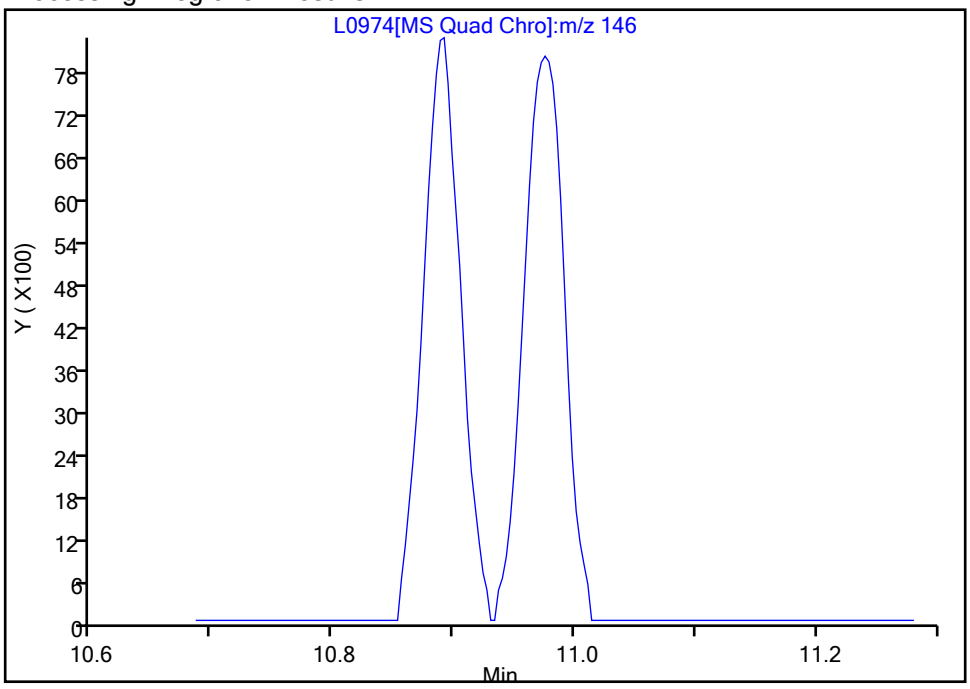
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

126 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

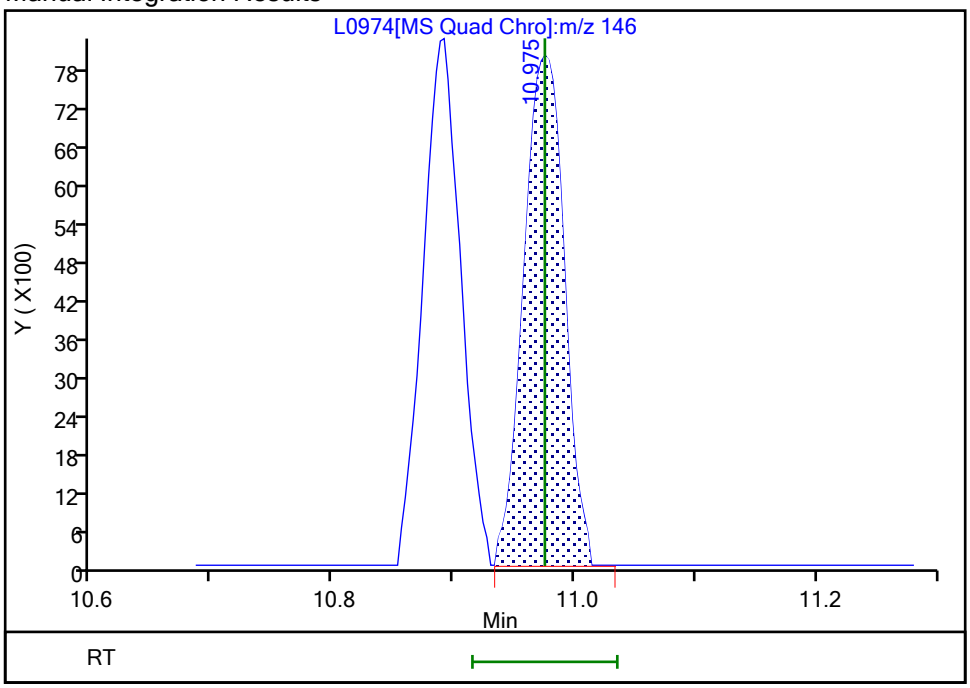
Not Detected
Expected RT: 10.98

Processing Integration Results



Manual Integration Results

RT: 10.98
Area: 18639
Amount: 0.946793
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:13:41 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

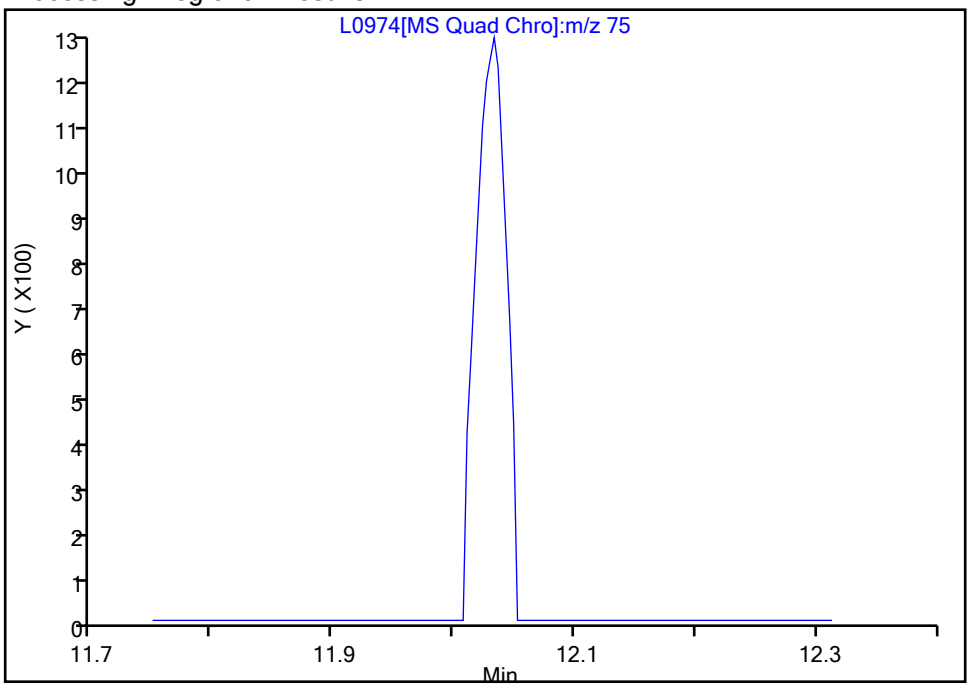
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0974.D
Injection Date: 25-Sep-2023 15:24:11 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

129 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

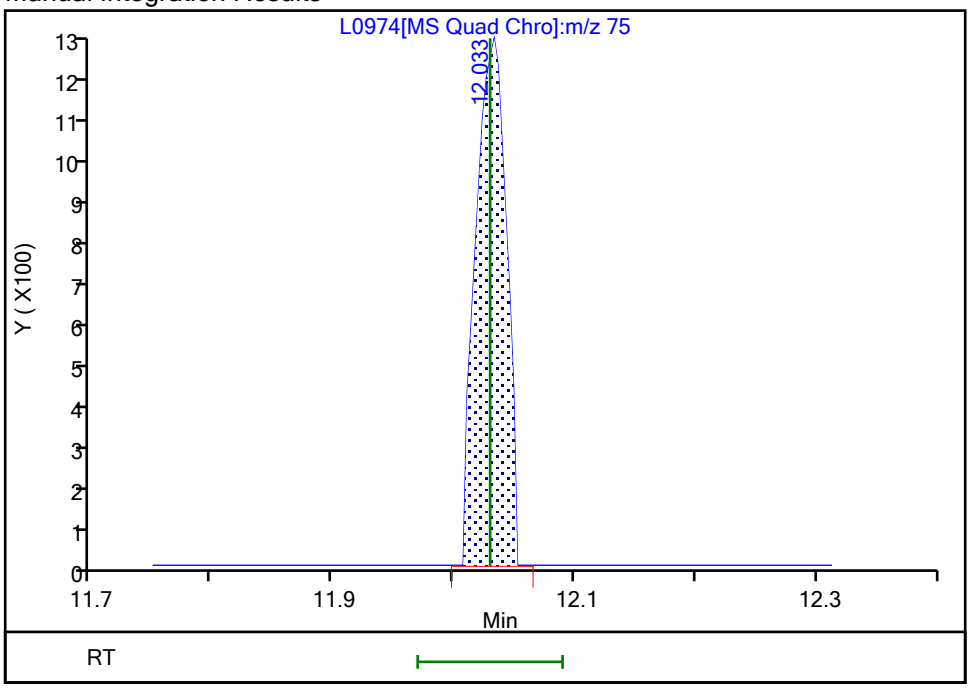
Not Detected
Expected RT: 12.03

Processing Integration Results



Manual Integration Results

RT: 12.03
Area: 2200
Amount: 0.844312
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:13:47 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0975.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Sep-2023 15:48:46 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0113942-016
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:42:16 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 10:15:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.673	-0.003	99	147367	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.548	0.000	87	592165	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	327801	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	94	177855	25.0	23.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	229512	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	735368	25.0	24.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.789	-0.003	98	201511	25.0	23.6	
10 Dichlorodifluoromethane	85	1.725	1.721	0.004	97	27653	2.00	2.12	
13 Chloromethane	50	1.937	1.937	0.000	98	33026	2.00	2.23	
14 Vinyl chloride	62	2.056	2.056	0.000	96	19873	2.00	2.12	
15 Butadiene	54	2.078	2.075	0.003	90	16242	2.00	1.72	
18 Bromomethane	94	2.422	2.416	0.006	61	5534	2.00	2.00	
19 Chloroethane	64	2.490	2.480	0.010	97	11192	2.00	2.03	
20 Dichlorofluoromethane	67	2.705	2.699	0.006	96	23941	2.00	1.87	
21 Trichlorofluoromethane	101	2.721	2.721	0.000	85	17594	2.00	2.07	
26 Ethyl ether	59	2.950	2.950	0.000	92	18031	2.00	2.04	
28 Acrolein	56	3.127	3.130	-0.003	98	10807	10.0	10.9	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.159	3.155	0.004	91	15898	2.00	1.89	
30 1,1-Dichloroethene	96	3.197	3.187	0.010	96	16616	2.00	2.00	
31 Acetone	43	3.271	3.271	0.000	98	39162	10.0	10.8	
33 Iodomethane	142	3.358	3.355	0.003	99	26560	2.00	1.93	
35 Carbon disulfide	76	3.410	3.406	0.004	98	31187	2.00	2.02	a
37 3-Chloro-1-propene	41	3.503	3.503	0.000	89	30430	2.00	1.95	
38 Methyl acetate	43	3.529	3.528	0.000	98	49305	4.00	4.29	
39 Methylene Chloride	84	3.651	3.647	0.004	95	22906	2.00	1.99	
40 2-Methyl-2-propanol	59	3.741	3.747	-0.006	97	23443	20.0	23.6	M
41 Methyl tert-butyl ether	73	3.811	3.808	0.003	96	58531	2.00	2.08	
42 trans-1,2-Dichloroethene	96	3.837	3.837	0.000	98	19007	2.00	2.03	
44 Acrylonitrile	53	3.882	3.879	0.003	99	118238	20.0	21.9	
47 Hexane	57	3.998	3.998	0.000	95	31363	2.00	2.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	95	33749	2.00	2.07	
49 Vinyl acetate	43	4.233	4.229	0.004	97	101089	4.00	4.09	
56 2,2-Dichloropropane	77	4.680	4.686	-0.006	87	13749	2.00	1.93	
58 cis-1,2-Dichloroethene	96	4.709	4.708	0.001	83	20792	2.00	2.04	
57 2-Butanone (MEK)	43	4.725	4.721	0.004	99	81570	10.0	11.4	
60 Chlorobromomethane	128	4.930	4.930	0.000	97	10346	2.00	2.08	
61 Tetrahydrofuran	42	4.950	4.946	0.004	90	23399	4.00	4.48	
62 Chloroform	83	4.979	4.978	0.001	92	33067	2.00	2.04	
64 1,1,1-Trichloroethane	97	5.114	5.110	0.004	97	24331	2.00	2.01	
65 Cyclohexane	56	5.127	5.130	-0.003	71	35907	2.00	2.06	
66 Carbon tetrachloride	117	5.239	5.239	0.000	77	18260	2.00	1.87	
67 1,1-Dichloropropene	75	5.242	5.242	0.000	91	24846	2.00	2.01	
69 Isobutyl alcohol	43	5.371	5.367	0.004	97	35130	50.0	50.9	
70 Benzene	78	5.435	5.435	0.000	96	77509	2.00	2.15	
72 1,2-Dichloroethane	62	5.487	5.486	0.001	97	26093	2.00	2.03	
73 n-Heptane	43	5.548	5.551	-0.003	94	34354	2.00	2.06	
75 Trichloroethene	95	5.988	5.988	0.000	95	18941	2.00	2.06	
76 Methylcyclohexane	83	6.110	6.110	0.000	94	33344	2.00	2.04	
77 1,2-Dichloropropane	63	6.220	6.220	0.000	94	19010	2.00	2.09	
81 1,4-Dioxane	88	6.332	6.339	-0.007	61	2918	40.0	33.1	M
82 Dibromomethane	93	6.355	6.355	0.000	95	10950	2.00	1.94	
83 Dichlorobromomethane	83	6.474	6.480	-0.006	97	19549	2.00	1.91	
84 2-Chloroethyl vinyl ether	63	6.708	6.712	-0.004	92	14080	2.00	2.09	
85 cis-1,3-Dichloropropene	75	6.869	6.869	0.000	92	27067	2.00	1.96	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.985	0.000	98	163696	10.0	10.5	
88 Toluene	92	7.155	7.155	0.000	98	48014	2.00	2.14	
91 trans-1,3-Dichloropropene	75	7.403	7.406	-0.003	95	24604	2.00	1.98	
90 Ethyl methacrylate	69	7.413	7.412	0.001	92	25634	2.00	1.98	
93 1,1,2-Trichloroethane	83	7.593	7.596	-0.003	90	14769	2.00	2.10	
94 Tetrachloroethene	166	7.676	7.679	-0.003	95	19141	2.00	2.08	
95 1,3-Dichloropropane	76	7.763	7.763	0.000	92	30842	2.00	2.06	
96 2-Hexanone	43	7.789	7.792	-0.003	98	115954	10.0	10.6	
98 Chlorodibromomethane	129	7.998	8.001	-0.003	87	12450	2.00	1.72	
101 Ethylene Dibromide	107	8.123	8.123	0.000	98	17350	2.00	1.96	
103 Chlorobenzene	112	8.577	8.580	-0.003	96	51044	2.00	2.09	
104 Ethylbenzene	91	8.644	8.647	-0.003	99	87597	2.00	2.09	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	93	14977	2.00	1.93	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.000	99	34096	2.00	2.10	
107 o-Xylene	106	9.194	9.194	0.000	96	33639	2.00	2.06	
109 Styrene	104	9.220	9.219	0.001	95	51302	2.00	2.02	
110 Bromoform	173	9.493	9.493	0.000	0	8458	2.00	2.04	M
111 Isopropylbenzene	105	9.564	9.564	0.000	96	85933	2.00	2.00	
113 Bromobenzene	156	9.959	9.959	0.000	91	20744	2.00	1.97	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.975	0.000	93	28658	2.00	2.06	
114 N-Propylbenzene	91	10.011	10.010	0.001	99	101839	2.00	1.97	
115 trans-1,4-Dichloro-2-butene	53	10.020	10.023	-0.003	73	8837	2.00	1.95	
116 1,2,3-Trichloropropane	110	10.027	10.027	0.000	85	9419	2.00	2.07	
117 2-Chlorotoluene	126	10.142	10.139	0.003	96	20518	2.00	2.03	
118 1,3,5-Trimethylbenzene	105	10.188	10.187	0.001	94	71029	2.00	1.98	
119 4-Chlorotoluene	91	10.252	10.252	0.000	98	62980	2.00	2.05	
120 tert-Butylbenzene	134	10.522	10.518	0.004	93	15589	2.00	1.94	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	97	74102	2.00	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	94927	2.00	2.03	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	98	76959	2.00	1.95	
124 1,3-Dichlorobenzene	146	10.892	10.888	0.004	97	42515	2.00	2.08	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	96	44987	2.00	2.15	
127 n-Butylbenzene	91	11.249	11.248	0.001	97	70990	2.00	1.93	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	98	42502	2.00	2.07	
129 1,2-Dibromo-3-Chloropropane	75	12.033	12.030	0.003	76	5086	2.00	1.84	
130 1,2,4-Trichlorobenzene	180	12.660	12.660	0.000	95	28760	2.00	1.89	
131 Hexachlorobutadiene	225	12.744	12.747	-0.003	94	10831	2.00	1.85	
132 Naphthalene	128	12.869	12.869	0.000	97	97404	2.00	1.93	
133 1,2,3-Trichlorobenzene	180	13.065	13.065	0.000	95	28418	2.00	1.95	
S 141 1,2-Dichloroethene, Total	1				0			4.08	
S 142 Total BTEX	1				0			10.5	
S 144 1,3-Dichloropropene, Total	1				0			3.94	
S 143 Xylenes, Total	1				0			4.17	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

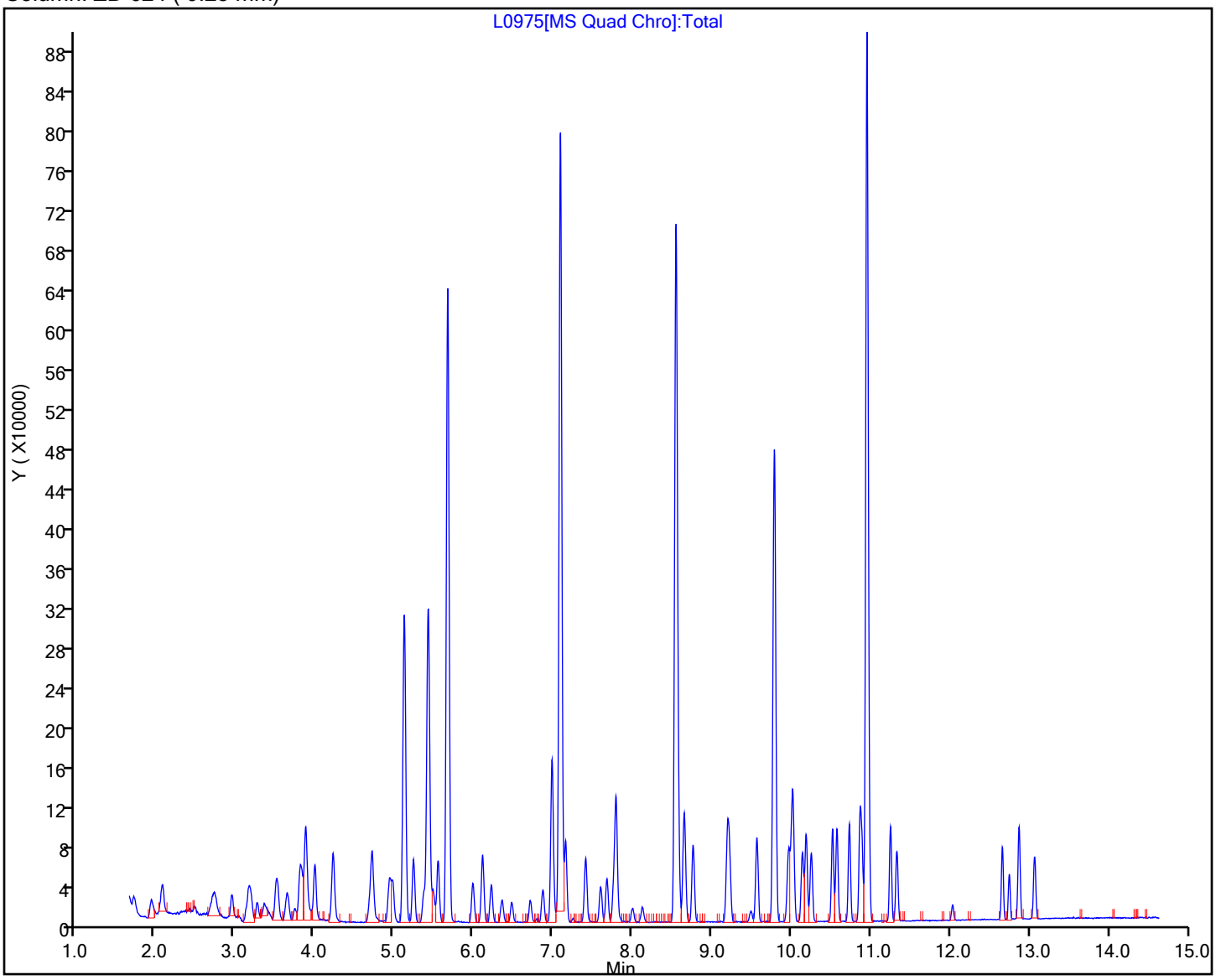
Reagents:

8260 CORP mix_00244	Amount Added:	2.00	Units: uL	
GAS CORP mix_00587	Amount Added:	2.00	Units: uL	
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:42:17 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0975.D
Injection Date: 25-Sep-2023 15:48:46 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Manual Integration/User Assign Peak Report

Eurofins Buffalo

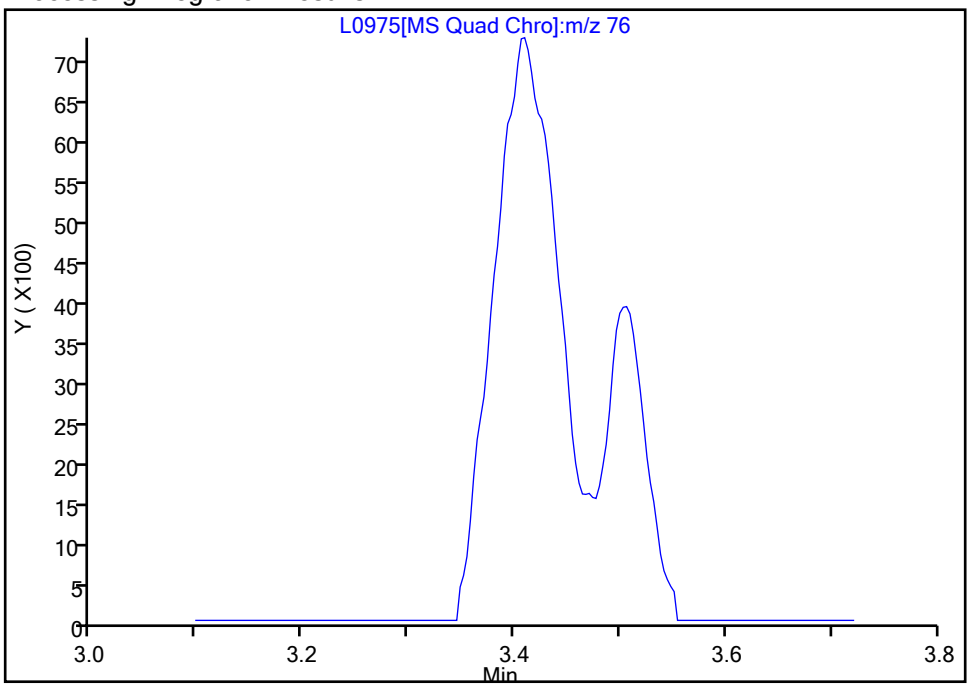
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0975.D
Injection Date: 25-Sep-2023 15:48:46 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

35 Carbon disulfide, CAS: 75-15-0

Signal: 1

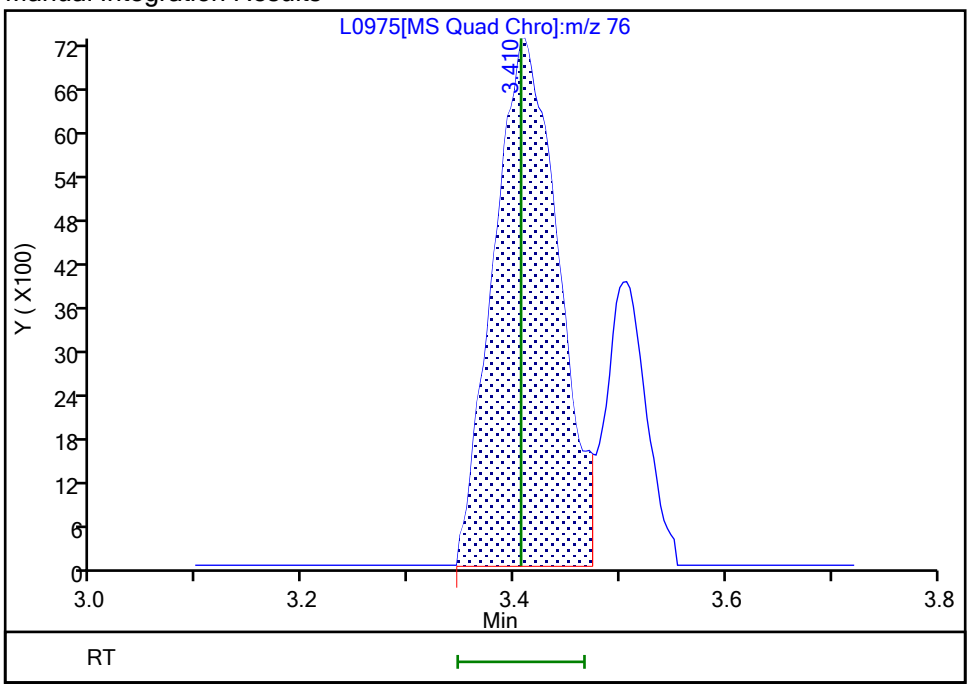
Not Detected
Expected RT: 3.41

Processing Integration Results



Manual Integration Results

RT: 3.41
Area: 31187
Amount: 2.019122
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:14:25 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

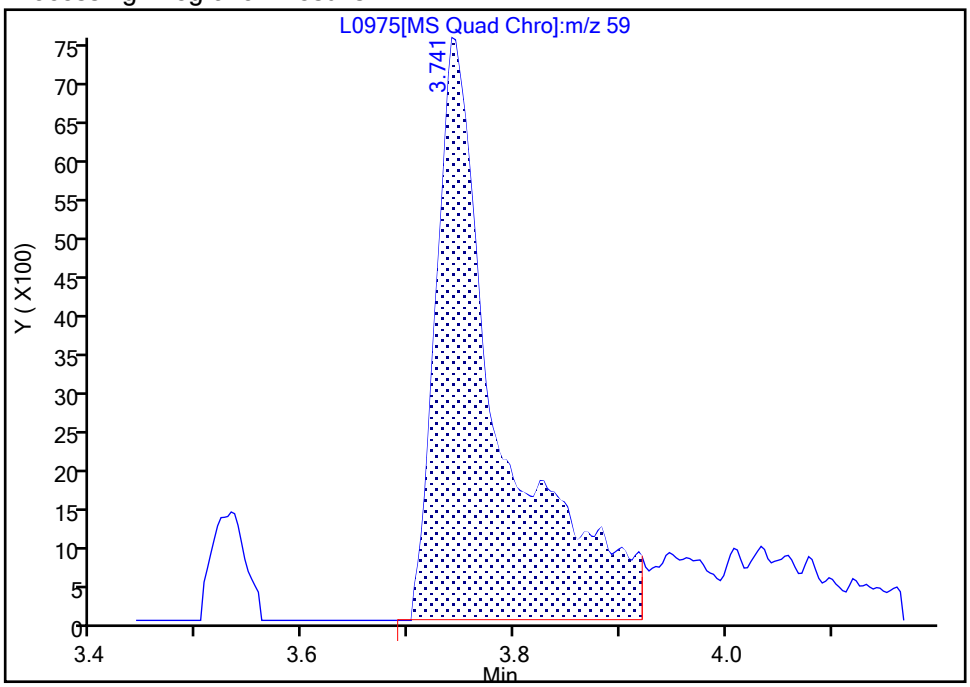
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0975.D
Injection Date: 25-Sep-2023 15:48:46 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

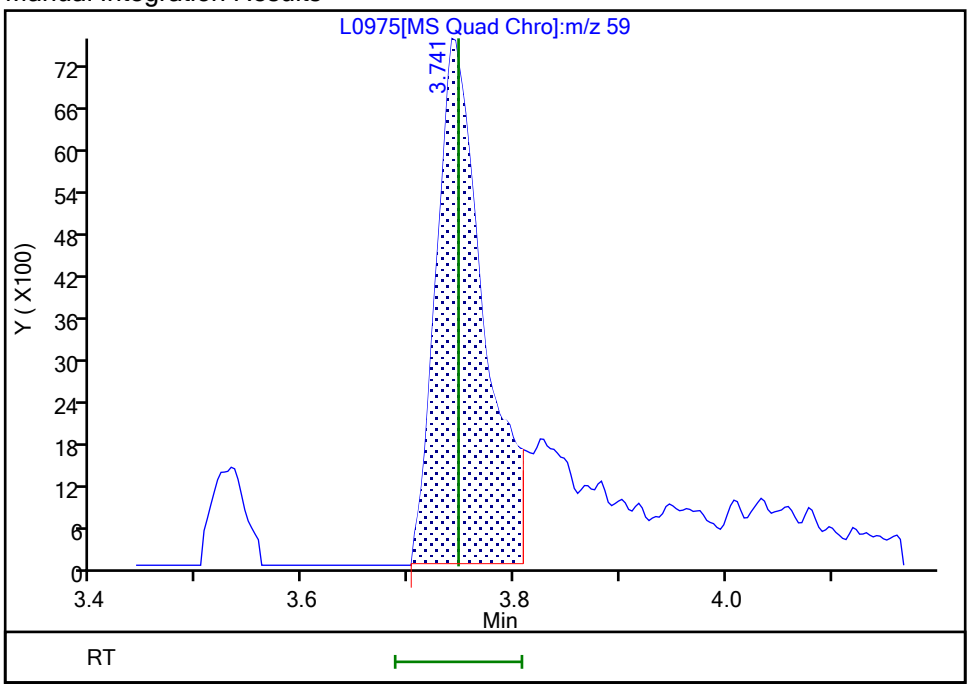
Processing Integration Results

RT: 3.74
Area: 31966
Amount: 29.874124
Amount Units: ug/L



Manual Integration Results

RT: 3.74
Area: 23443
Amount: 23.618859
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:14:42 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

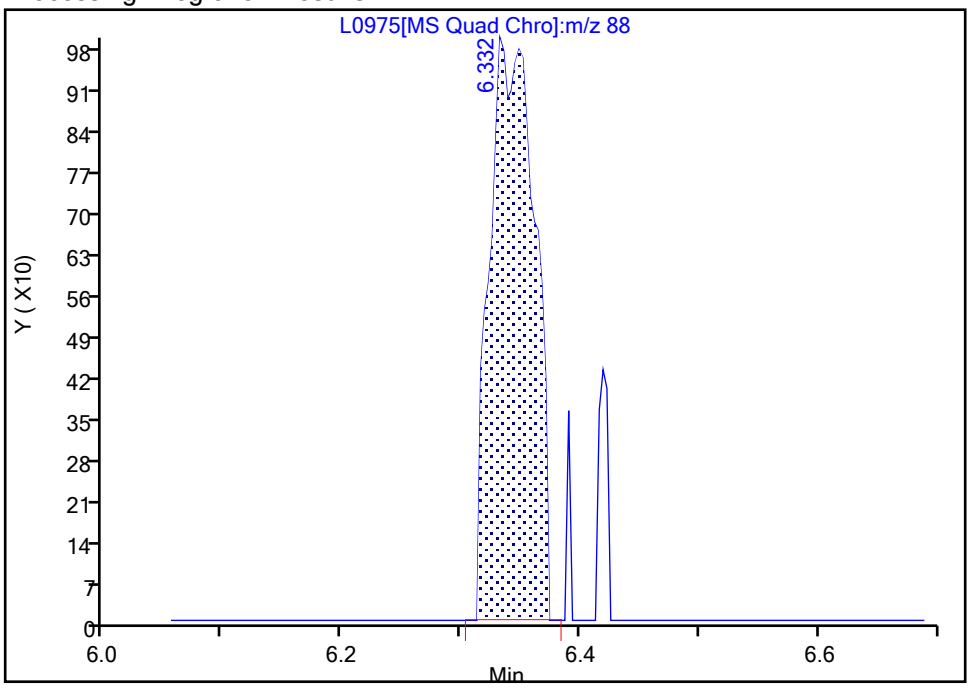
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0975.D
Injection Date: 25-Sep-2023 15:48:46 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

81 1,4-Dioxane, CAS: 123-91-1

Signal: 1

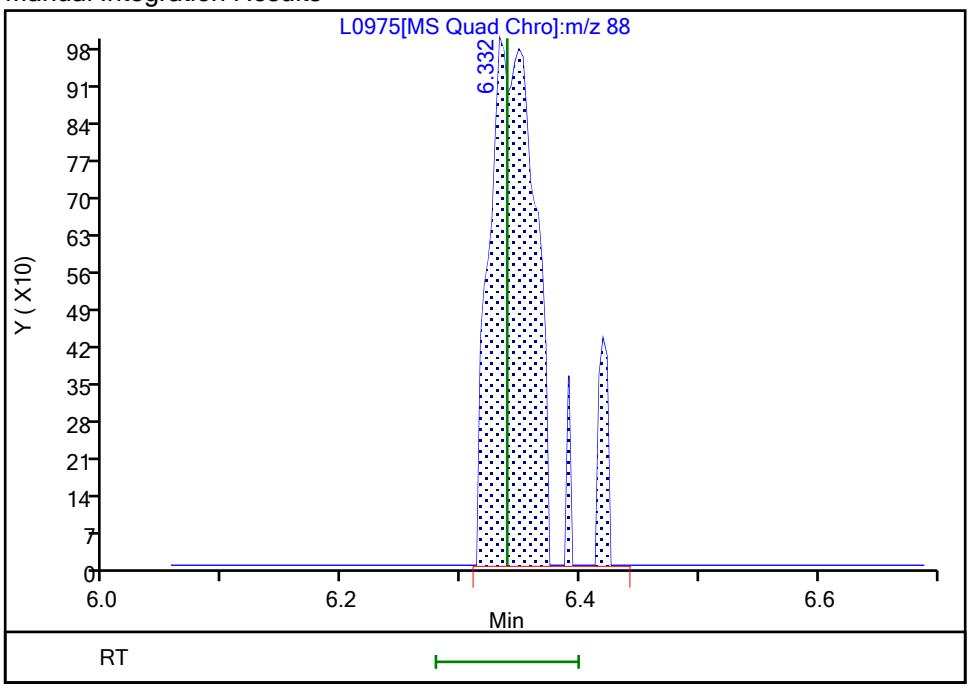
Processing Integration Results

RT: 6.33
Area: 2620
Amount: 30.148758
Amount Units: ug/L



Manual Integration Results

RT: 6.33
Area: 2918
Amount: 33.104888
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 11:14:00 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

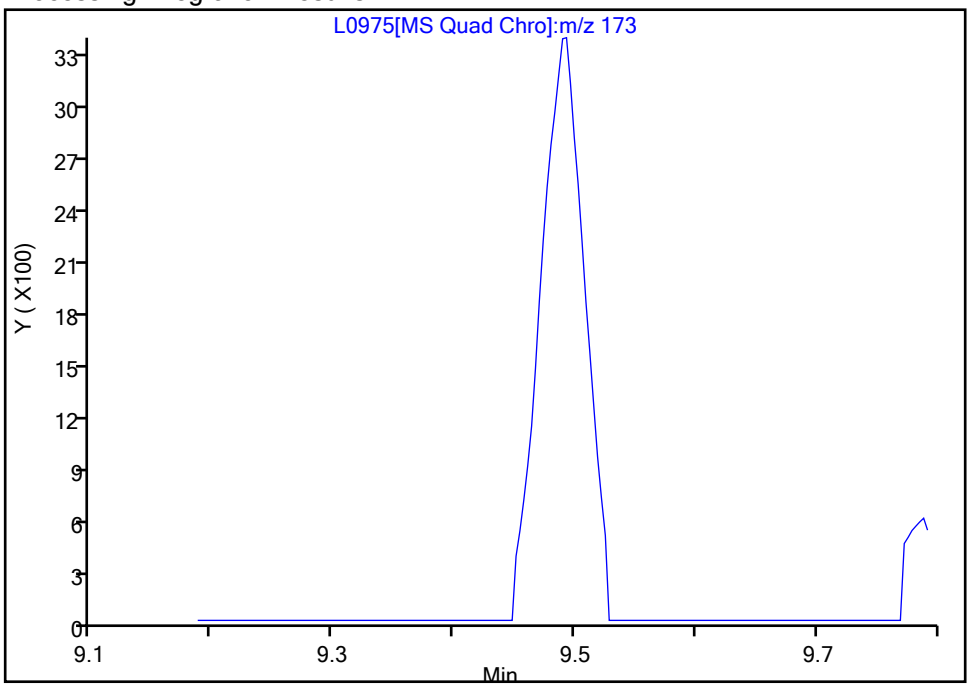
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0975.D
Injection Date: 25-Sep-2023 15:48:46 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

110 Bromoform, CAS: 75-25-2

Signal: 1

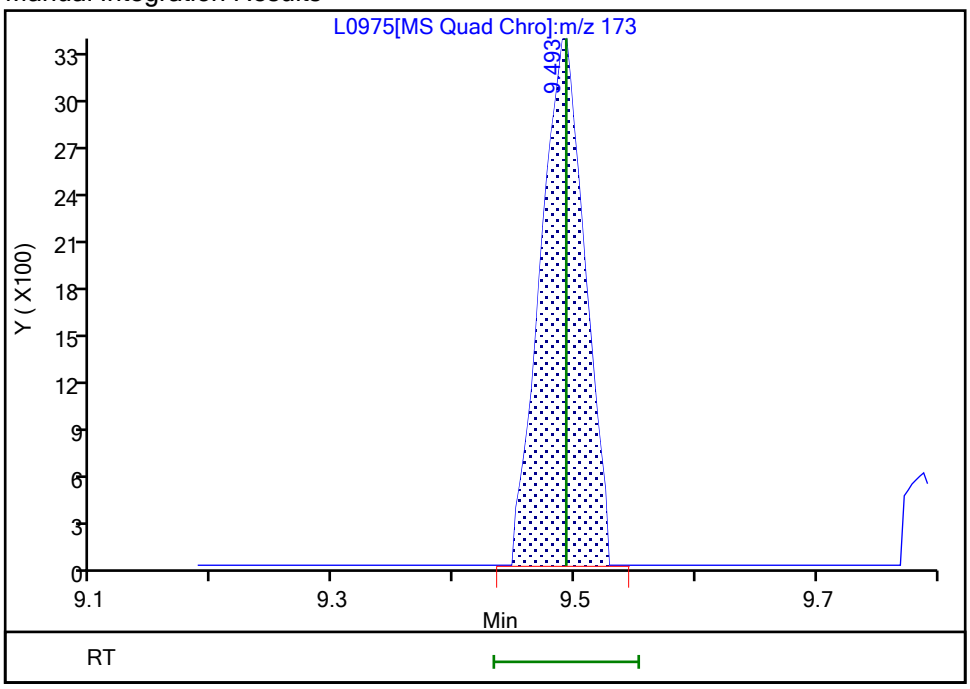
Not Detected
Expected RT: 9.49

Processing Integration Results



Manual Integration Results

RT: 9.49
Area: 8458
Amount: 2.041517
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:15:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0976.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 25-Sep-2023 16:13:23 ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0113942-017
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:42:28 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 10:16:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.673	-0.003	99	140367	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.548	0.000	86	530239	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	271775	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	95	183903	25.0	25.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	99	234244	25.0	26.3	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	94	719504	25.0	26.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.789	-0.004	97	202875	25.0	26.6	
10 Dichlorodifluoromethane	85	1.725	1.721	0.004	99	67429	5.00	5.42	
13 Chloromethane	50	1.940	1.937	0.003	99	76940	5.00	5.46	
14 Vinyl chloride	62	2.062	2.056	0.006	97	46437	5.00	5.19	
15 Butadiene	54	2.078	2.075	0.003	92	47899	5.00	5.31	
18 Bromomethane	94	2.422	2.416	0.006	95	16370	5.00	4.23	
19 Chloroethane	64	2.483	2.480	0.003	99	28596	5.00	5.43	
20 Dichlorofluoromethane	67	2.705	2.699	0.006	97	62932	5.00	5.16	
21 Trichlorofluoromethane	101	2.731	2.721	0.010	93	47619	5.00	4.68	
26 Ethyl ether	59	2.953	2.950	0.003	95	43733	5.00	5.19	
28 Acrolein	56	3.130	3.130	0.000	98	28319	25.0	30.1	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.162	3.155	0.007	95	41052	5.00	5.12	
30 1,1-Dichloroethene	96	3.191	3.187	0.004	96	41110	5.00	5.20	
31 Acetone	43	3.268	3.271	-0.003	99	102795	25.0	29.6	M
33 Iodomethane	142	3.355	3.355	0.000	99	66766	5.00	5.10	
35 Carbon disulfide	76	3.406	3.406	0.000	99	81101	5.00	4.38	
37 3-Chloro-1-propene	41	3.506	3.503	0.003	92	78150	5.00	5.25	
38 Methyl acetate	43	3.528	3.528	0.000	99	122698	10.0	11.2	
39 Methylene Chloride	84	3.647	3.647	0.000	93	50982	5.00	5.30	
40 2-Methyl-2-propanol	59	3.737	3.747	-0.010	98	49394	50.0	52.2	
41 Methyl tert-butyl ether	73	3.811	3.808	0.003	97	146267	5.00	5.47	
42 trans-1,2-Dichloroethene	96	3.840	3.837	0.003	99	47575	5.00	5.34	
44 Acrylonitrile	53	3.882	3.879	0.003	99	291269	50.0	56.7	M
47 Hexane	57	3.998	3.998	0.000	94	73449	5.00	5.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.216	4.213	0.003	96	82913	5.00	5.34	
49 Vinyl acetate	43	4.229	4.229	0.000	97	243369	10.0	10.3	
56 2,2-Dichloropropane	77	4.686	4.686	0.000	88	39900	5.00	5.88	
58 cis-1,2-Dichloroethene	96	4.712	4.708	0.004	85	51368	5.00	5.30	
57 2-Butanone (MEK)	43	4.724	4.721	0.003	100	193606	25.0	28.4	M
60 Chlorobromomethane	128	4.930	4.930	0.000	96	24303	5.00	5.14	
61 Tetrahydrofuran	42	4.950	4.946	0.004	88	56048	10.0	11.3	
62 Chloroform	83	4.978	4.978	0.000	93	79373	5.00	5.15	
64 1,1,1-Trichloroethane	97	5.114	5.110	0.004	98	58988	5.00	5.11	
65 Cyclohexane	56	5.126	5.130	-0.004	91	86375	5.00	5.20	
66 Carbon tetrachloride	117	5.239	5.239	0.000	74	45916	5.00	4.93	
67 1,1-Dichloropropene	75	5.239	5.242	-0.003	94	61441	5.00	5.21	
69 Isobutyl alcohol	43	5.368	5.367	0.001	97	91298	125.0	138.9	
70 Benzene	78	5.435	5.435	0.000	96	182403	5.00	5.32	
72 1,2-Dichloroethane	62	5.490	5.486	0.004	97	63455	5.00	5.19	
73 n-Heptane	43	5.551	5.551	0.000	96	81793	5.00	5.14	
75 Trichloroethene	95	5.988	5.988	0.000	97	45697	5.00	5.22	
76 Methylcyclohexane	83	6.107	6.110	-0.003	94	80327	5.00	5.15	
77 1,2-Dichloropropane	63	6.220	6.220	0.000	95	44908	5.00	5.20	
81 1,4-Dioxane	88	6.342	6.339	0.003	88	8455	100.0	107.1	
82 Dibromomethane	93	6.355	6.355	0.000	95	29275	5.00	5.44	
83 Dichlorobromomethane	83	6.477	6.480	-0.003	98	48854	5.00	5.01	
84 2-Chloroethyl vinyl ether	63	6.712	6.712	0.000	95	31628	5.00	4.92	
85 cis-1,3-Dichloropropene	75	6.869	6.869	0.000	94	66428	5.00	5.05	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.985	0.000	98	384714	25.0	27.5	
88 Toluene	92	7.155	7.155	0.000	99	109270	5.00	5.43	
91 trans-1,3-Dichloropropene	75	7.403	7.406	-0.003	95	57563	5.00	5.18	
90 Ethyl methacrylate	69	7.413	7.412	0.000	92	61017	5.00	5.26	
93 1,1,2-Trichloroethane	83	7.599	7.596	0.003	92	33333	5.00	5.28	
94 Tetrachloroethene	166	7.676	7.679	-0.003	95	43250	5.00	5.26	
95 1,3-Dichloropropane	76	7.760	7.763	-0.003	98	70957	5.00	5.30	
96 2-Hexanone	43	7.789	7.792	-0.003	98	260146	25.0	26.7	
98 Chlorodibromomethane	129	7.998	8.001	-0.003	90	32393	5.00	4.99	
101 Ethylene Dibromide	107	8.123	8.123	0.000	97	42209	5.00	5.33	
103 Chlorobenzene	112	8.576	8.580	-0.004	94	116270	5.00	5.31	
104 Ethylbenzene	91	8.647	8.647	0.000	98	199936	5.00	5.34	
105 1,1,1,2-Tetrachloroethane	131	8.663	8.660	0.003	92	38778	5.00	5.58	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.000	99	79090	5.00	5.45	
107 o-Xylene	106	9.191	9.194	-0.003	96	79287	5.00	5.42	
109 Styrene	104	9.220	9.219	0.001	95	120269	5.00	5.28	
110 Bromoform	173	9.486	9.493	-0.007	94	20852	5.00	4.57	
111 Isopropylbenzene	105	9.567	9.564	0.003	96	201337	5.00	5.65	
113 Bromobenzene	156	9.959	9.959	0.000	94	48071	5.00	5.51	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.975	0.000	93	65201	5.00	5.67	
114 N-Propylbenzene	91	10.011	10.010	0.000	99	242135	5.00	5.65	
115 trans-1,4-Dichloro-2-butene	53	10.023	10.023	0.000	74	19384	5.00	5.15	
116 1,2,3-Trichloropropane	110	10.023	10.027	-0.004	88	21610	5.00	5.72	
117 2-Chlorotoluene	126	10.139	10.139	0.000	97	48819	5.00	5.81	
118 1,3,5-Trimethylbenzene	105	10.187	10.187	0.000	94	169299	5.00	5.70	
119 4-Chlorotoluene	91	10.252	10.252	0.000	97	144436	5.00	5.66	
120 tert-Butylbenzene	134	10.519	10.518	0.001	92	37545	5.00	5.64	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	97	177762	5.00	5.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	223659	5.00	5.77	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	97	189754	5.00	5.80	
124 1,3-Dichlorobenzene	146	10.888	10.888	0.000	96	97855	5.00	5.78	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	95	99405	5.00	5.73	
127 n-Butylbenzene	91	11.248	11.248	0.000	98	176360	5.00	5.77	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	97363	5.00	5.71	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.030	0.000	82	12083	5.00	5.26	
130 1,2,4-Trichlorobenzene	180	12.660	12.660	0.000	94	71711	5.00	5.67	
131 Hexachlorobutadiene	225	12.747	12.747	0.000	96	27044	5.00	5.57	
132 Naphthalene	128	12.869	12.869	0.000	97	243666	5.00	5.83	
133 1,2,3-Trichlorobenzene	180	13.062	13.065	-0.003	96	73024	5.00	6.03	
S 141 1,2-Dichloroethene, Total	1				0			10.6	
S 142 Total BTEX	1				0			27.0	
S 144 1,3-Dichloropropene, Total	1				0			10.2	
S 143 Xylenes, Total	1				0			10.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

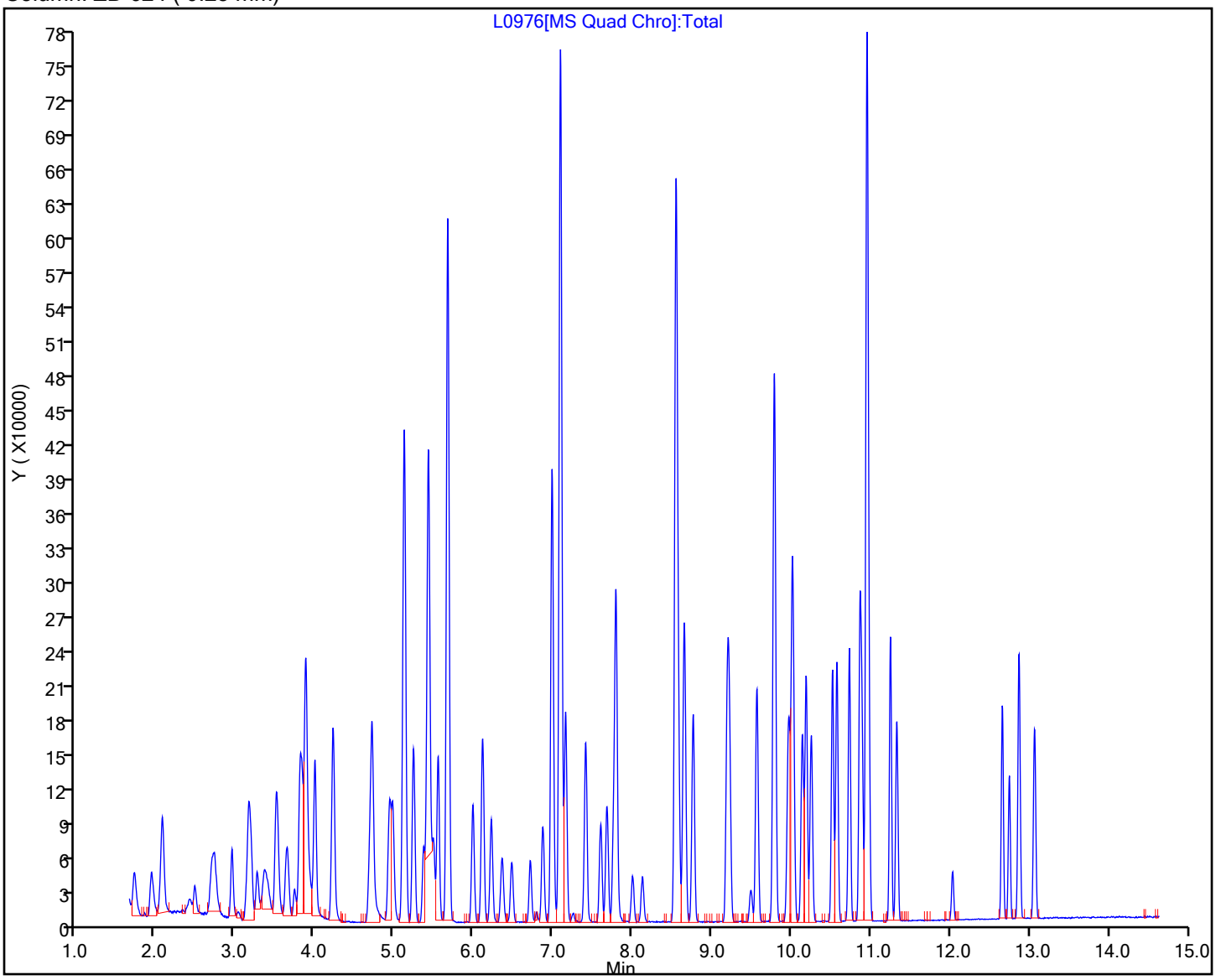
Reagents:

8260 CORP mix_00244	Amount Added:	5.00	Units: uL	
GAS CORP mix_00587	Amount Added:	5.00	Units: uL	
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:42:28 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0976.D
Injection Date: 25-Sep-2023 16:13:23 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Manual Integration/User Assign Peak Report

Eurofins Buffalo

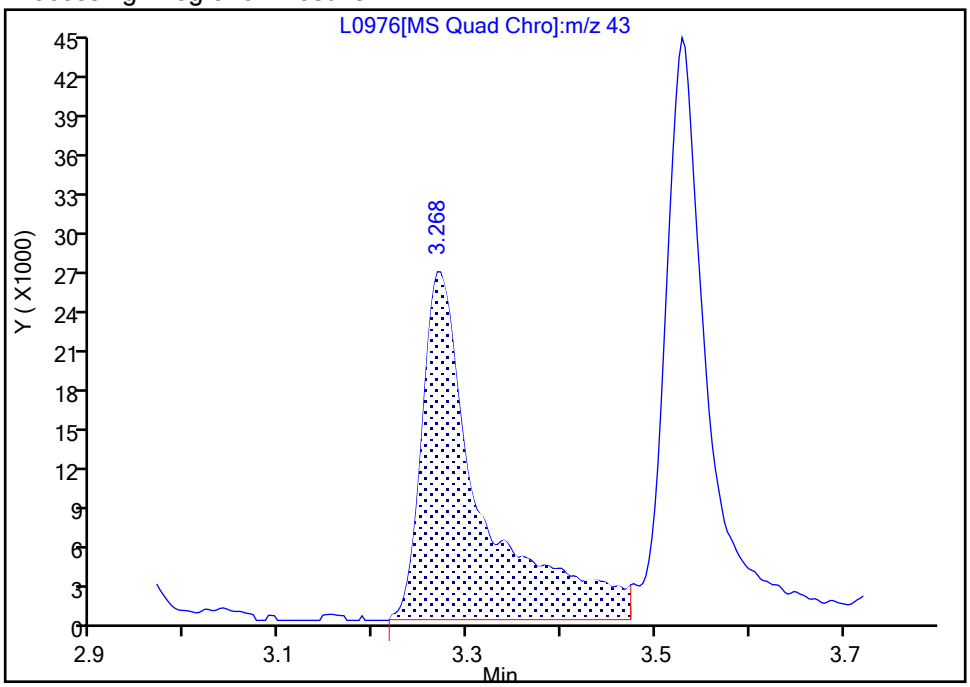
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0976.D
Injection Date: 25-Sep-2023 16:13:23 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

31 Acetone, CAS: 67-64-1

Signal: 1

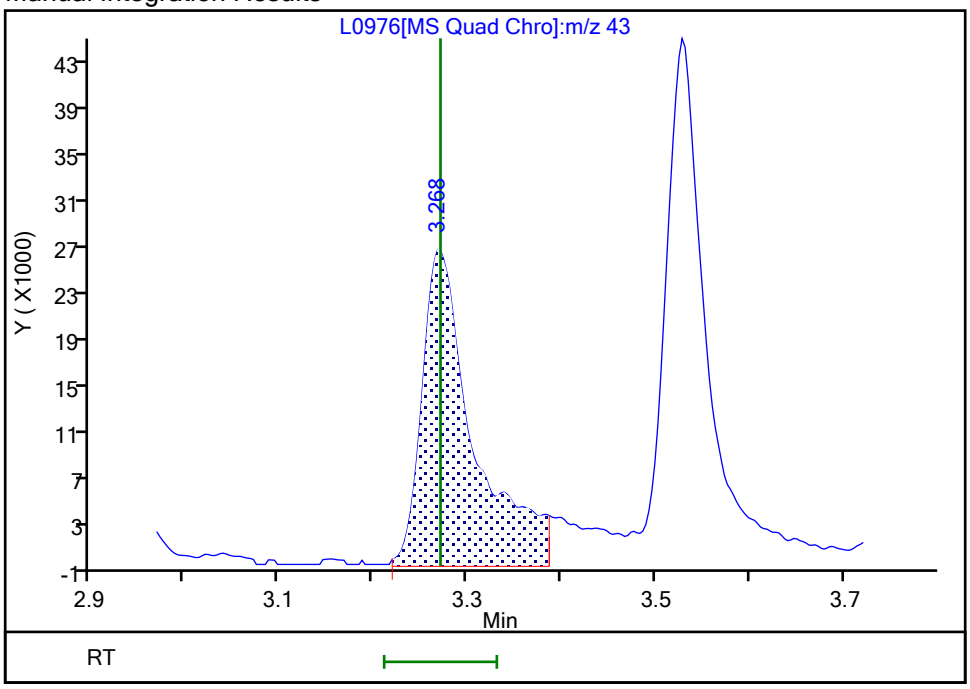
Processing Integration Results

RT: 3.27
Area: 118340
Amount: 32.578580
Amount Units: ug/L



Manual Integration Results

RT: 3.27
Area: 102795
Amount: 29.631955
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:15:53 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

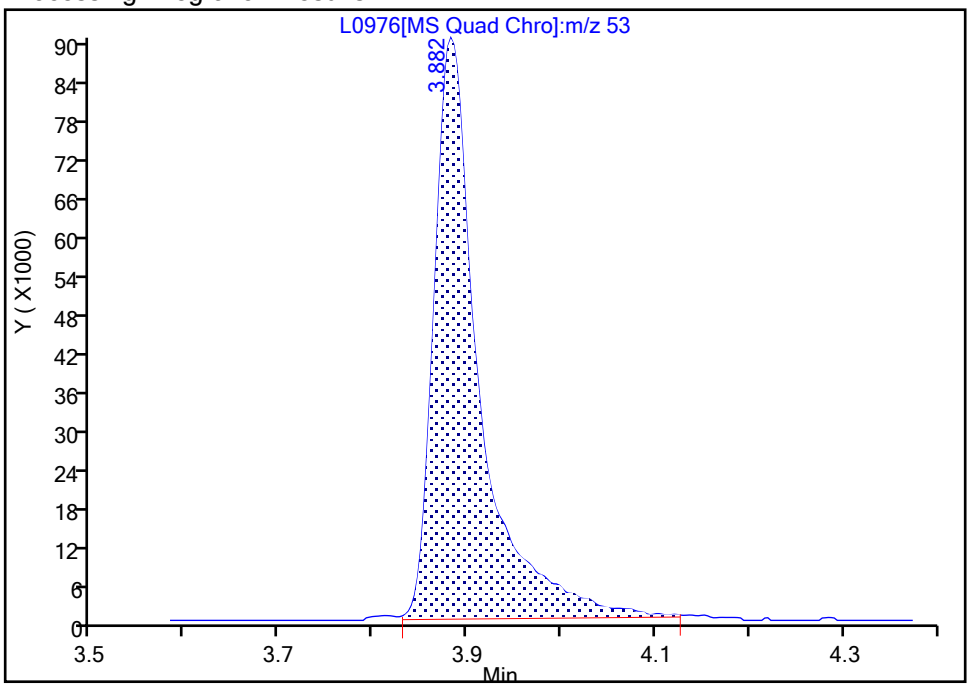
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0976.D
Injection Date: 25-Sep-2023 16:13:23 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

44 Acrylonitrile, CAS: 107-13-1

Signal: 1

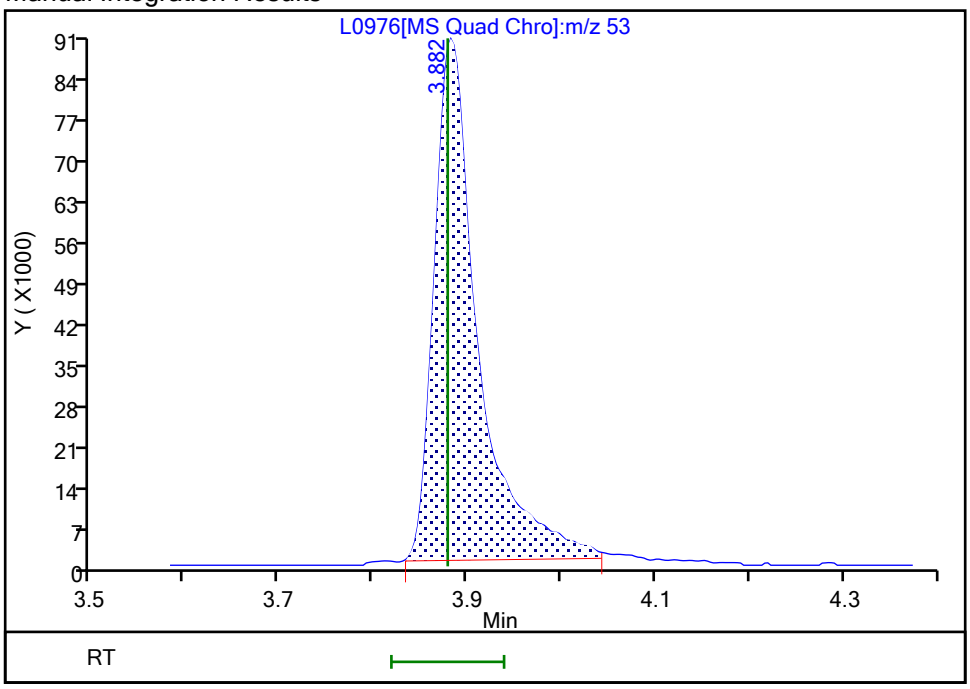
Processing Integration Results

RT: 3.88
Area: 302691
Amount: 62.584362
Amount Units: ug/L



Manual Integration Results

RT: 3.88
Area: 291269
Amount: 56.738601
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:27:38 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

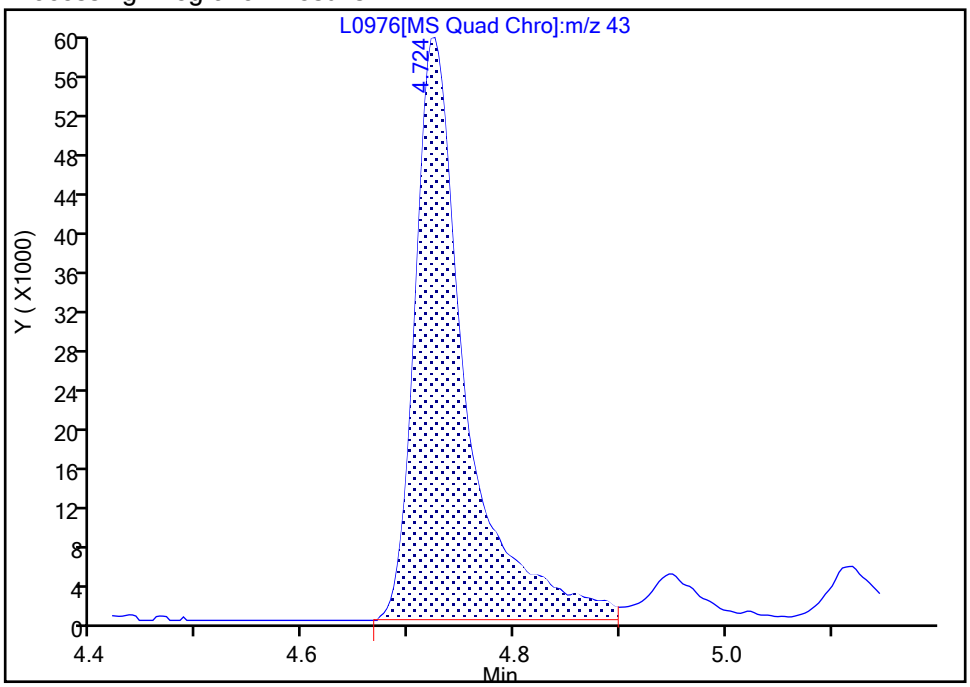
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0976.D
Injection Date: 25-Sep-2023 16:13:23 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Signal: 1

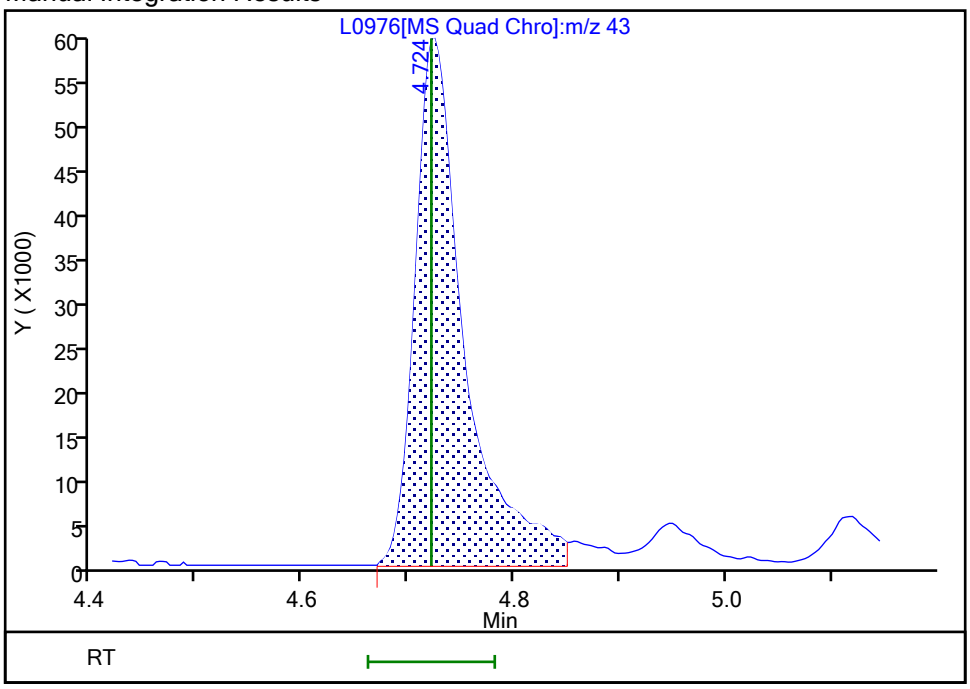
Processing Integration Results

RT: 4.72
Area: 199712
Amount: 29.100803
Amount Units: ug/L



Manual Integration Results

RT: 4.72
Area: 193606
Amount: 28.373663
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:28:38 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0977.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Sep-2023 16:37:31 ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0113942-018
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:42:40 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 10:17:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.673	5.673	0.000	99	133573	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.548	0.000	86	508103	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	268202	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	176112	25.0	25.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	210996	25.0	24.9	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	673720	25.0	25.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.789	-0.004	98	188840	25.0	25.8	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	99	124679	10.0	10.5	
13 Chloromethane	50	1.937	1.937	0.000	99	140340	10.0	10.5	
14 Vinyl chloride	62	2.059	2.056	0.003	97	91635	10.0	10.8	
15 Butadiene	54	2.078	2.075	0.003	95	95563	10.0	11.1	
18 Bromomethane	94	2.416	2.416	0.000	93	38139	10.0	8.99	
19 Chloroethane	64	2.483	2.480	0.003	99	52388	10.0	10.5	
20 Dichlorofluoromethane	67	2.702	2.699	0.003	97	124162	10.0	10.7	
21 Trichlorofluoromethane	101	2.728	2.721	0.007	96	102165	10.0	9.74	
26 Ethyl ether	59	2.953	2.950	0.003	94	80676	10.0	10.1	
28 Acrolein	56	3.130	3.130	0.000	99	43691	50.0	48.8	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.159	3.155	0.004	93	81872	10.0	10.7	
30 1,1-Dichloroethene	96	3.191	3.187	0.004	98	78345	10.0	10.4	
31 Acetone	43	3.268	3.271	-0.003	99	155996	50.0	47.3	
33 Iodomethane	142	3.361	3.355	0.006	98	132278	10.0	10.6	
35 Carbon disulfide	76	3.400	3.406	-0.006	99	176214	10.0	9.15	a
37 3-Chloro-1-propene	41	3.503	3.503	0.000	91	149415	10.0	10.6	
38 Methyl acetate	43	3.525	3.528	-0.003	99	200795	20.0	19.3	
39 Methylene Chloride	84	3.647	3.647	0.000	97	92115	10.0	10.5	
40 2-Methyl-2-propanol	59	3.741	3.747	-0.006	99	94499	100.0	105.0	
41 Methyl tert-butyl ether	73	3.808	3.808	0.000	97	253677	10.0	9.96	
42 trans-1,2-Dichloroethene	96	3.840	3.837	0.003	98	89661	10.0	10.6	
44 Acrylonitrile	53	3.879	3.879	0.000	98	426196	100.0	87.2	
47 Hexane	57	3.998	3.998	0.000	95	140181	10.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	153754	10.0	10.4	
49 Vinyl acetate	43	4.229	4.229	0.000	97	441930	20.0	19.7	
56 2,2-Dichloropropane	77	4.686	4.686	0.000	90	67991	10.0	10.5	
58 cis-1,2-Dichloroethene	96	4.708	4.708	0.000	78	96653	10.0	10.5	
57 2-Butanone (MEK)	43	4.721	4.721	0.000	100	300795	50.0	46.3	M
60 Chlorobromomethane	128	4.930	4.930	0.000	97	46419	10.0	10.3	
61 Tetrahydrofuran	42	4.946	4.946	0.000	91	89794	20.0	19.0	
62 Chloroform	83	4.979	4.978	0.000	92	149450	10.0	10.2	
64 1,1,1-Trichloroethane	97	5.107	5.110	-0.003	99	113773	10.0	10.3	
65 Cyclohexane	56	5.126	5.130	-0.004	91	170780	10.0	10.8	
66 Carbon tetrachloride	117	5.236	5.239	-0.003	93	93299	10.0	10.5	
67 1,1-Dichloropropene	75	5.239	5.242	-0.003	94	118526	10.0	10.6	
69 Isobutyl alcohol	43	5.364	5.367	-0.003	95	147609	250.0	236.0	
70 Benzene	78	5.435	5.435	0.000	96	333408	10.0	10.2	
72 1,2-Dichloroethane	62	5.490	5.486	0.004	96	115859	10.0	9.95	
73 n-Heptane	43	5.548	5.551	-0.003	95	157811	10.0	10.4	
75 Trichloroethene	95	5.988	5.988	0.000	96	85165	10.0	10.2	
76 Methylcyclohexane	83	6.110	6.110	0.000	92	158294	10.0	10.7	
77 1,2-Dichloropropane	63	6.220	6.220	0.000	95	82976	10.0	10.1	
81 1,4-Dioxane	88	6.342	6.339	0.003	92	17832	200.0	235.8	M
82 Dibromomethane	93	6.355	6.355	0.000	97	52739	10.0	10.3	
83 Dichlorobromomethane	83	6.477	6.480	-0.003	99	93944	10.0	10.1	
84 2-Chloroethyl vinyl ether	63	6.712	6.712	0.000	92	59767	10.0	9.78	
85 cis-1,3-Dichloropropene	75	6.869	6.869	0.000	94	123279	10.0	9.85	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.985	0.000	98	669660	50.0	49.9	
88 Toluene	92	7.155	7.155	0.000	98	199144	10.0	10.3	
91 trans-1,3-Dichloropropene	75	7.403	7.406	-0.003	94	111786	10.0	10.5	
90 Ethyl methacrylate	69	7.409	7.412	-0.003	90	113661	10.0	10.2	
93 1,1,2-Trichloroethane	83	7.599	7.596	0.003	92	62411	10.0	10.3	
94 Tetrachloroethene	166	7.676	7.679	-0.003	95	82733	10.0	10.5	
95 1,3-Dichloropropane	76	7.760	7.763	-0.003	94	130711	10.0	10.2	
96 2-Hexanone	43	7.792	7.792	0.000	98	462274	50.0	49.4	
98 Chlorodibromomethane	129	8.001	8.001	0.000	90	64215	10.0	10.3	
101 Ethylene Dibromide	107	8.123	8.123	0.000	99	76681	10.0	10.1	
103 Chlorobenzene	112	8.576	8.580	-0.004	95	215583	10.0	10.3	
104 Ethylbenzene	91	8.647	8.647	0.000	99	371884	10.0	10.4	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	96	70796	10.0	10.6	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.000	99	143815	10.0	10.3	
107 o-Xylene	106	9.194	9.194	0.000	96	146688	10.0	10.5	
109 Styrene	104	9.220	9.219	0.001	95	226372	10.0	10.4	
110 Bromoform	173	9.493	9.493	0.000	96	40719	10.0	8.70	
111 Isopropylbenzene	105	9.564	9.564	0.000	96	374792	10.0	10.7	
113 Bromobenzene	156	9.959	9.959	0.000	94	89845	10.0	10.4	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.975	0.000	95	116049	10.0	10.2	
114 N-Propylbenzene	91	10.011	10.010	0.001	99	452270	10.0	10.7	
115 trans-1,4-Dichloro-2-butene	53	10.023	10.023	0.000	75	37634	10.0	10.1	
116 1,2,3-Trichloropropane	110	10.023	10.027	-0.004	87	38679	10.0	10.4	
117 2-Chlorotoluene	126	10.139	10.139	0.000	97	87755	10.0	10.6	
118 1,3,5-Trimethylbenzene	105	10.187	10.187	0.000	94	309677	10.0	10.6	
119 4-Chlorotoluene	91	10.252	10.252	0.000	97	268094	10.0	10.6	
120 tert-Butylbenzene	134	10.519	10.518	0.001	94	68696	10.0	10.5	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	97	326488	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	407309	10.0	10.6	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	97	346437	10.0	10.7	
124 1,3-Dichlorobenzene	146	10.892	10.888	0.004	98	178280	10.0	10.7	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	94	179464	10.0	10.5	
127 n-Butylbenzene	91	11.248	11.248	0.000	98	323863	10.0	10.7	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	175178	10.0	10.4	
129 1,2-Dibromo-3-Chloropropane	75	12.033	12.030	0.003	82	22914	10.0	10.1	
130 1,2,4-Trichlorobenzene	180	12.657	12.660	-0.003	95	129902	10.0	10.4	
131 Hexachlorobutadiene	225	12.744	12.747	-0.003	96	51472	10.0	10.7	
132 Naphthalene	128	12.869	12.869	0.000	97	414333	10.0	10.1	
133 1,2,3-Trichlorobenzene	180	13.062	13.065	-0.003	95	120136	10.0	10.1	
S 141 1,2-Dichloroethene, Total	1				0			21.1	
S 142 Total BTEX	1				0			51.7	
S 144 1,3-Dichloropropene, Total	1				0			20.3	
S 143 Xylenes, Total	1				0			20.8	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260 CORP mix_00244	Amount Added:	5.00	Units: uL	
GAS CORP mix_00587	Amount Added:	5.00	Units: uL	
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:42:41 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0977.D

Injection Date: 25-Sep-2023 16:37:31 Instrument ID: HP5977L

Lims ID: IC 4

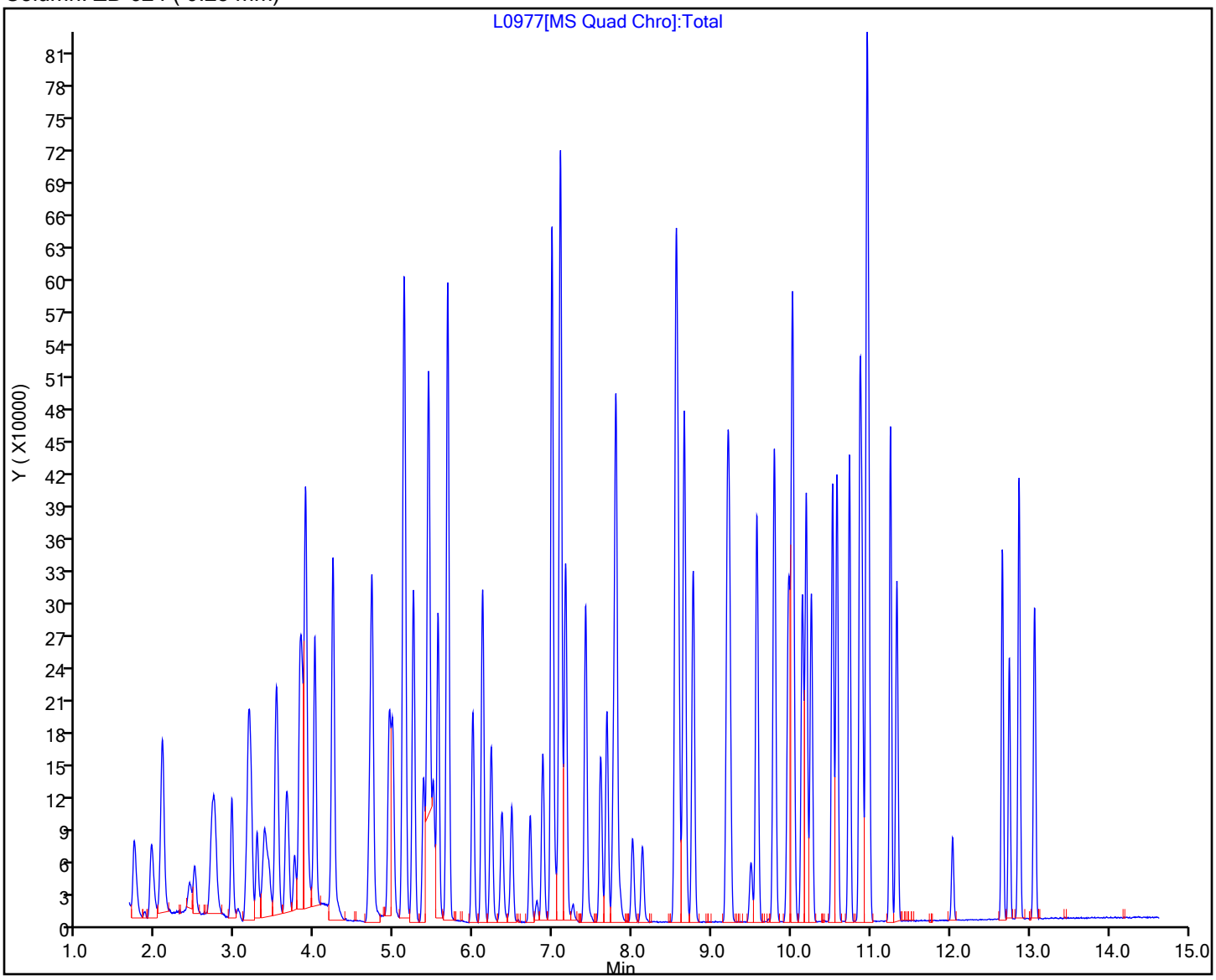
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 18

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

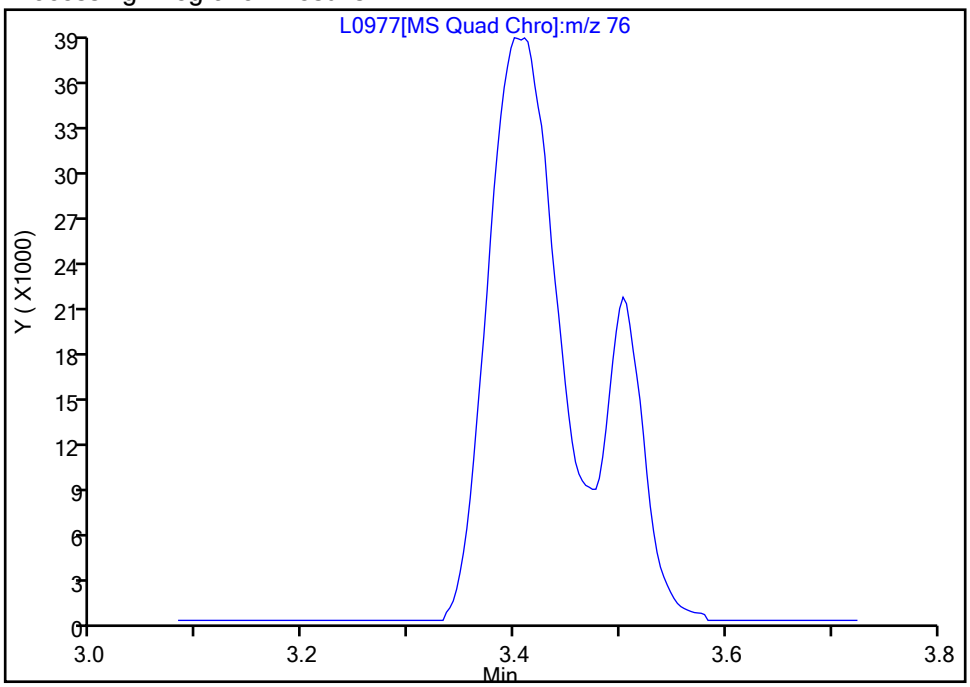
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0977.D
Injection Date: 25-Sep-2023 16:37:31 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

35 Carbon disulfide, CAS: 75-15-0

Signal: 1

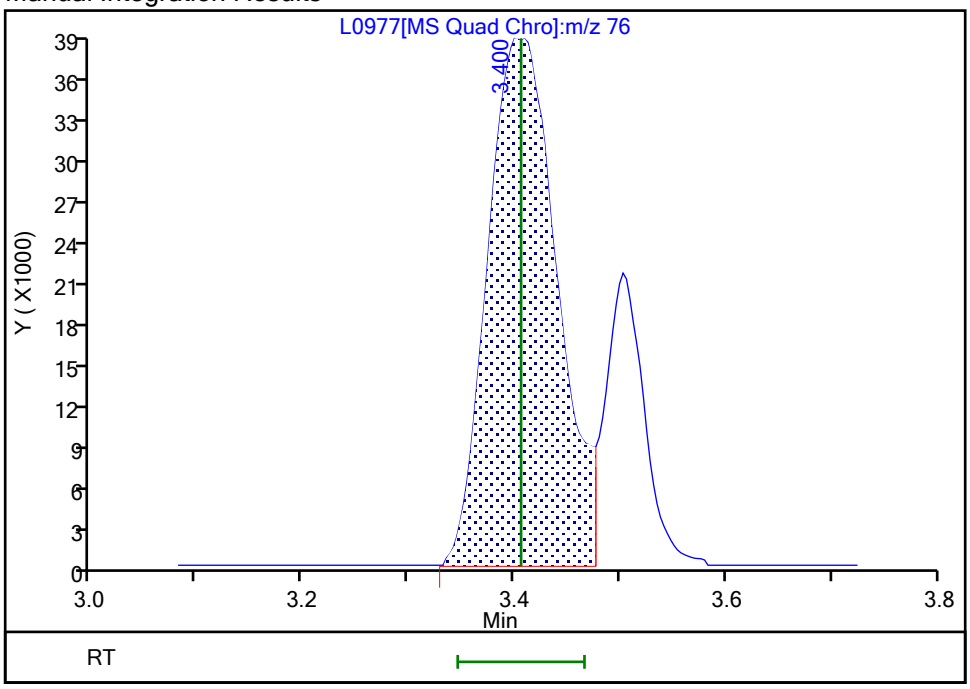
Not Detected
Expected RT: 3.41

Processing Integration Results



Manual Integration Results

RT: 3.40
Area: 176214
Amount: 9.150175
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:16:46 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

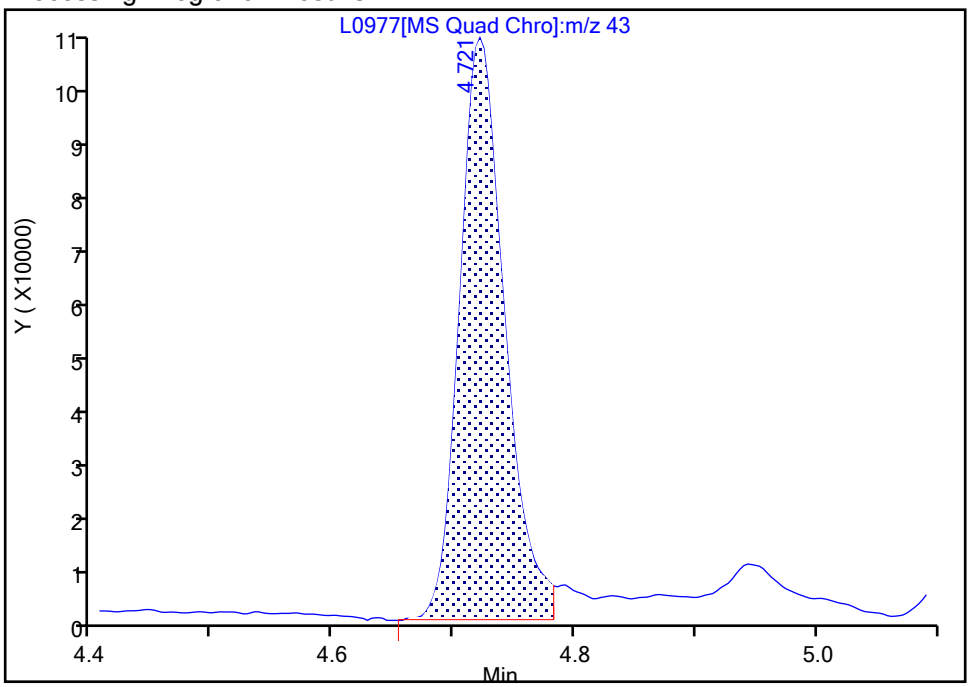
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0977.D
Injection Date: 25-Sep-2023 16:37:31 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Signal: 1

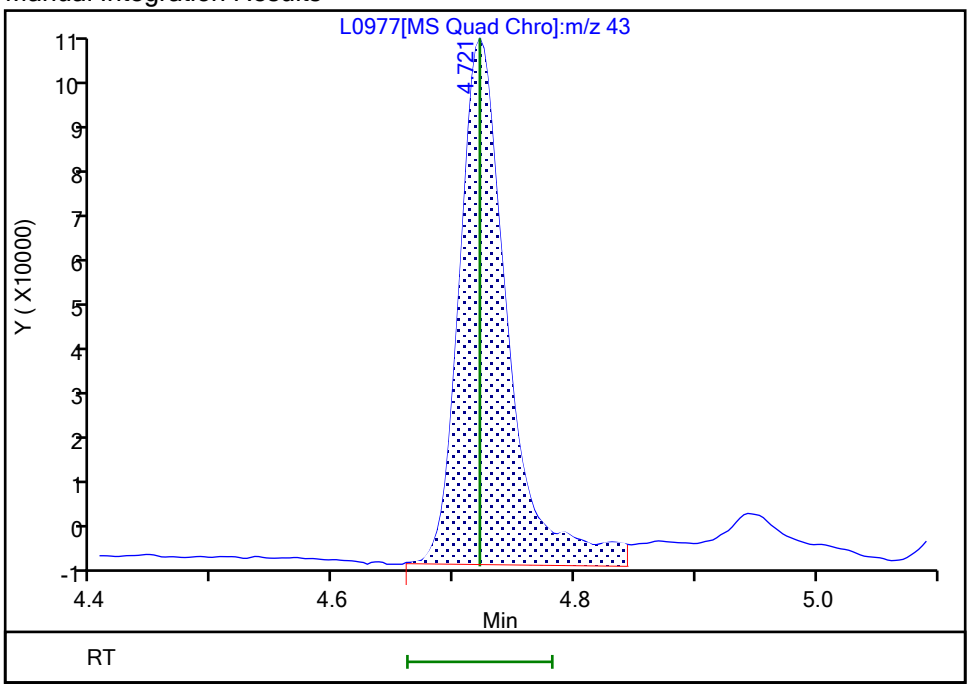
Processing Integration Results

RT: 4.72
Area: 281667
Amount: 43.350767
Amount Units: ug/L



Manual Integration Results

RT: 4.72
Area: 300795
Amount: 46.324799
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:29:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

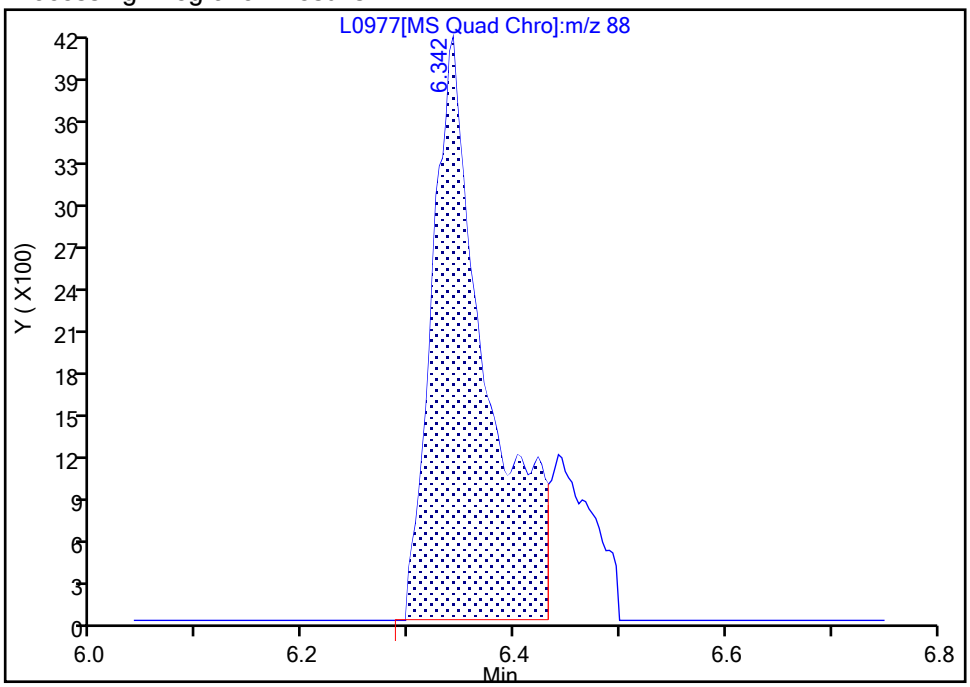
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0977.D
Injection Date: 25-Sep-2023 16:37:31 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

81 1,4-Dioxane, CAS: 123-91-1

Signal: 1

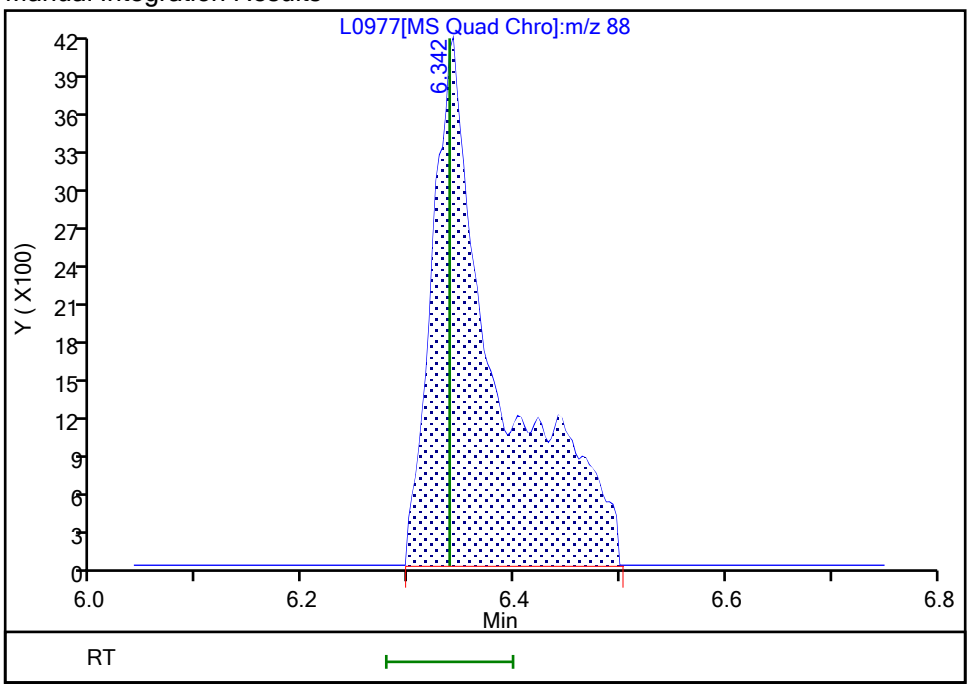
Processing Integration Results

RT: 6.34
Area: 14730
Amount: 226.7646
Amount Units: ug/L



Manual Integration Results

RT: 6.34
Area: 17832
Amount: 235.7751
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:17:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0978.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 25-Sep-2023 17:01:09 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0113942-019
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:42:53 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 10:07:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	98	134136	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.547	8.547	0.000	86	539602	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	95	290249	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	93	176377	25.0	25.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	225794	25.0	26.5	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	658868	25.0	23.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.789	9.789	0.000	98	181797	25.0	23.4	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	99	318724	25.0	26.8	
13 Chloromethane	50	1.937	1.937	0.000	99	322676	25.0	24.0	
14 Vinyl chloride	62	2.056	2.056	0.000	98	223094	25.0	26.1	
15 Butadiene	54	2.075	2.075	0.000	94	219228	25.0	25.4	
18 Bromomethane	94	2.416	2.416	0.000	93	104835	25.0	23.0	
19 Chloroethane	64	2.480	2.480	0.000	99	121203	25.0	24.1	
20 Dichlorofluoromethane	67	2.699	2.699	0.000	98	295967	25.0	25.4	
21 Trichlorofluoromethane	101	2.721	2.721	0.000	98	263489	25.0	24.0	
26 Ethyl ether	59	2.950	2.950	0.000	94	195936	25.0	24.3	
28 Acrolein	56	3.130	3.130	0.000	99	102144	125.0	113.5	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.155	3.155	0.000	94	203010	25.0	26.5	
30 1,1-Dichloroethene	96	3.187	3.187	0.000	97	195127	25.0	25.8	
31 Acetone	43	3.271	3.271	0.000	99	375356	125.0	113.2	
33 Iodomethane	142	3.355	3.355	0.000	99	321915	25.0	25.7	
35 Carbon disulfide	76	3.406	3.406	0.000	100	482166	25.0	23.8	
37 3-Chloro-1-propene	41	3.503	3.503	0.000	91	362873	25.0	25.5	
38 Methyl acetate	43	3.528	3.528	0.000	99	509837	50.0	48.8	
39 Methylene Chloride	84	3.647	3.647	0.000	97	225341	25.0	26.2	
40 2-Methyl-2-propanol	59	3.747	3.747	0.000	99	229947	250.0	254.5	
41 Methyl tert-butyl ether	73	3.808	3.808	0.000	97	601763	25.0	23.5	
42 trans-1,2-Dichloroethene	96	3.837	3.837	0.000	99	219878	25.0	25.8	
44 Acrylonitrile	53	3.879	3.879	0.000	98	1066679	250.0	217.4	
47 Hexane	57	3.998	3.998	0.000	95	336929	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	370408	25.0	25.0	
49 Vinyl acetate	43	4.229	4.229	0.000	97	1185179	50.0	52.7	
56 2,2-Dichloropropane	77	4.686	4.686	0.000	88	171840	25.0	26.5	
58 cis-1,2-Dichloroethene	96	4.708	4.708	0.000	82	230102	25.0	24.9	
57 2-Butanone (MEK)	43	4.721	4.721	0.000	100	909958	125.0	139.6	M
60 Chlorobromomethane	128	4.930	4.930	0.000	96	117250	25.0	25.9	
61 Tetrahydrofuran	42	4.946	4.946	0.000	91	253242	50.0	53.3	
62 Chloroform	83	4.978	4.978	0.000	94	364541	25.0	24.7	
64 1,1,1-Trichloroethane	97	5.110	5.110	0.000	98	287864	25.0	26.1	
65 Cyclohexane	56	5.130	5.130	0.000	93	408508	25.0	25.7	
66 Carbon tetrachloride	117	5.239	5.239	0.000	85	236073	25.0	26.5	
67 1,1-Dichloropropene	75	5.242	5.242	0.000	94	289288	25.0	25.7	
69 Isobutyl alcohol	43	5.367	5.367	0.000	95	461055	625.0	734.1	
70 Benzene	78	5.435	5.435	0.000	97	822871	25.0	25.1	
72 1,2-Dichloroethane	62	5.486	5.486	0.000	96	299196	25.0	25.6	
73 n-Heptane	43	5.551	5.551	0.000	95	395349	25.0	26.0	
75 Trichloroethene	95	5.988	5.988	0.000	98	214025	25.0	25.6	
76 Methylcyclohexane	83	6.110	6.110	0.000	93	386424	25.0	25.9	
77 1,2-Dichloropropane	63	6.220	6.220	0.000	95	213074	25.0	25.8	
81 1,4-Dioxane	88	6.339	6.339	0.000	97	47223	500.0	587.9	M
82 Dibromomethane	93	6.355	6.355	0.000	96	138294	25.0	26.9	
83 Dichlorobromomethane	83	6.480	6.480	0.000	99	253768	25.0	27.2	
84 2-Chloroethyl vinyl ether	63	6.712	6.712	0.000	92	167855	25.0	27.3	
85 cis-1,3-Dichloropropene	75	6.869	6.869	0.000	94	339696	25.0	27.0	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.985	0.000	98	1823066	125.0	128.0	
88 Toluene	92	7.155	7.155	0.000	99	506527	25.0	24.7	
91 trans-1,3-Dichloropropene	75	7.406	7.406	0.000	96	299469	25.0	26.5	
90 Ethyl methacrylate	69	7.412	7.412	0.000	91	305628	25.0	25.9	
93 1,1,2-Trichloroethane	83	7.596	7.596	0.000	92	157536	25.0	24.5	
94 Tetrachloroethene	166	7.679	7.679	0.000	96	209535	25.0	25.0	
95 1,3-Dichloropropane	76	7.763	7.763	0.000	95	334055	25.0	24.5	
96 2-Hexanone	43	7.792	7.792	0.000	98	1243747	125.0	125.2	
98 Chlorodibromomethane	129	8.001	8.001	0.000	90	182326	25.0	27.6	
101 Ethylene Dibromide	107	8.123	8.123	0.000	99	204446	25.0	25.4	
103 Chlorobenzene	112	8.580	8.580	0.000	95	549340	25.0	24.6	
104 Ethylbenzene	91	8.647	8.647	0.000	98	941293	25.0	24.7	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	95	191961	25.0	27.1	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.000	99	368290	25.0	24.9	
107 o-Xylene	106	9.194	9.194	0.000	97	371330	25.0	25.0	
109 Styrene	104	9.219	9.219	0.000	95	581155	25.0	25.1	
110 Bromoform	173	9.493	9.493	0.000	96	123637	25.0	23.8	
111 Isopropylbenzene	105	9.564	9.564	0.000	96	963809	25.0	25.3	
113 Bromobenzene	156	9.959	9.959	0.000	95	226499	25.0	24.3	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.975	0.000	94	310195	25.0	25.2	
114 N-Propylbenzene	91	10.010	10.010	0.000	99	1142864	25.0	25.0	
115 trans-1,4-Dichloro-2-butene	53	10.023	10.023	0.000	74	101742	25.0	25.3	
116 1,2,3-Trichloropropane	110	10.027	10.027	0.000	87	100878	25.0	25.0	
117 2-Chlorotoluene	126	10.139	10.139	0.000	97	221193	25.0	24.7	
118 1,3,5-Trimethylbenzene	105	10.187	10.187	0.000	94	814507	25.0	25.7	
119 4-Chlorotoluene	91	10.252	10.252	0.000	98	666696	25.0	24.5	
120 tert-Butylbenzene	134	10.518	10.518	0.000	94	182780	25.0	25.7	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	97	842009	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	1054979	25.0	25.5	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	97	892463	25.0	25.5	
124 1,3-Dichlorobenzene	146	10.888	10.888	0.000	98	436813	25.0	24.1	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	94	442162	25.0	23.9	
127 n-Butylbenzene	91	11.248	11.248	0.000	98	820936	25.0	25.2	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	445521	25.0	24.5	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.030	0.000	84	69833	25.0	28.5	
130 1,2,4-Trichlorobenzene	180	12.660	12.660	0.000	95	345686	25.0	25.6	
131 Hexachlorobutadiene	225	12.747	12.747	0.000	97	135012	25.0	26.0	
132 Naphthalene	128	12.869	12.869	0.000	97	1180498	25.0	26.5	
133 1,2,3-Trichlorobenzene	180	13.065	13.065	0.000	96	337227	25.0	26.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00244	Amount Added:	12.50	Units: uL	
GAS CORP mix_00587	Amount Added:	12.50	Units: uL	
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:42:53 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0978.D

Injection Date: 25-Sep-2023 17:01:09 Instrument ID: HP5977L

Lims ID: ICIS 5

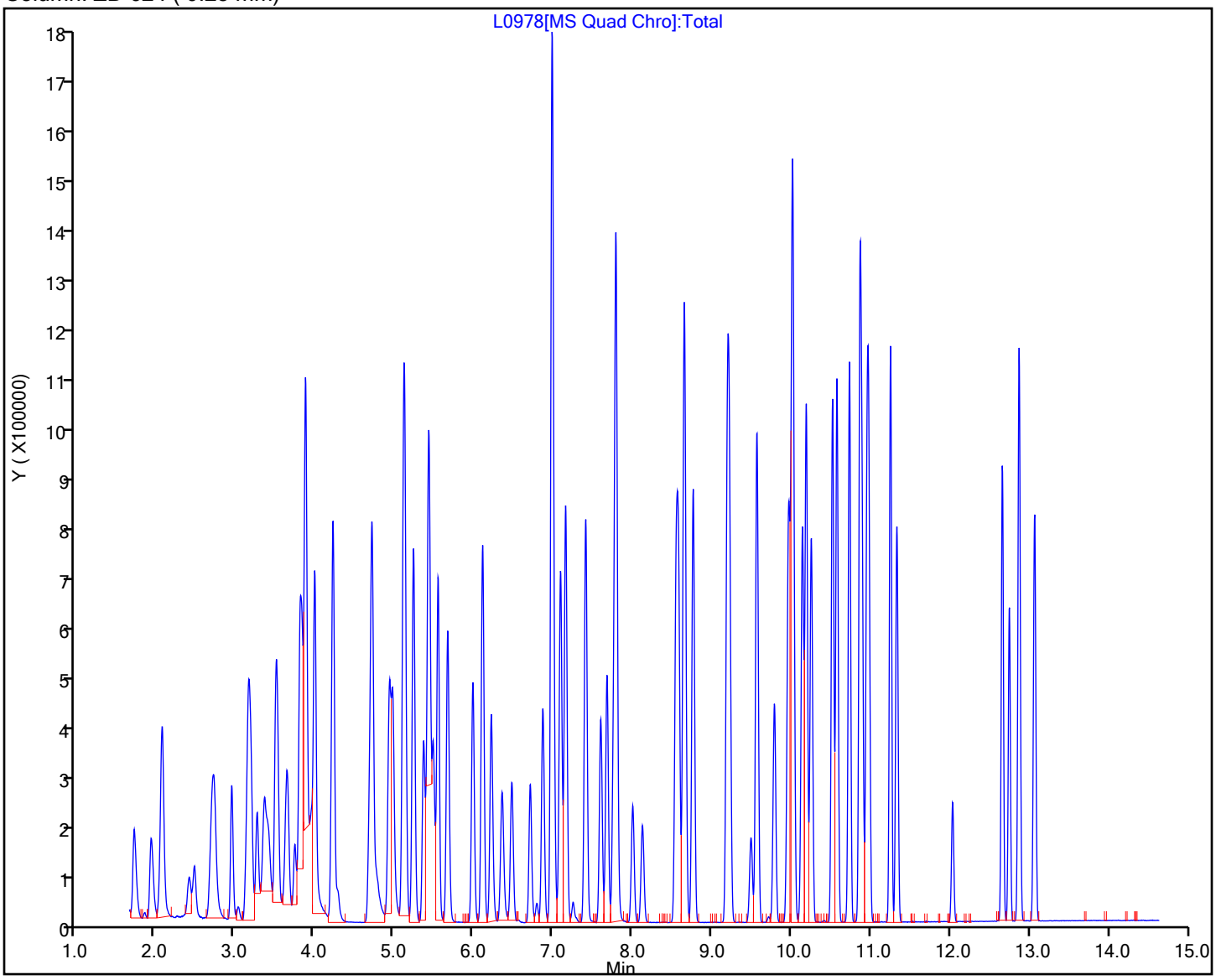
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

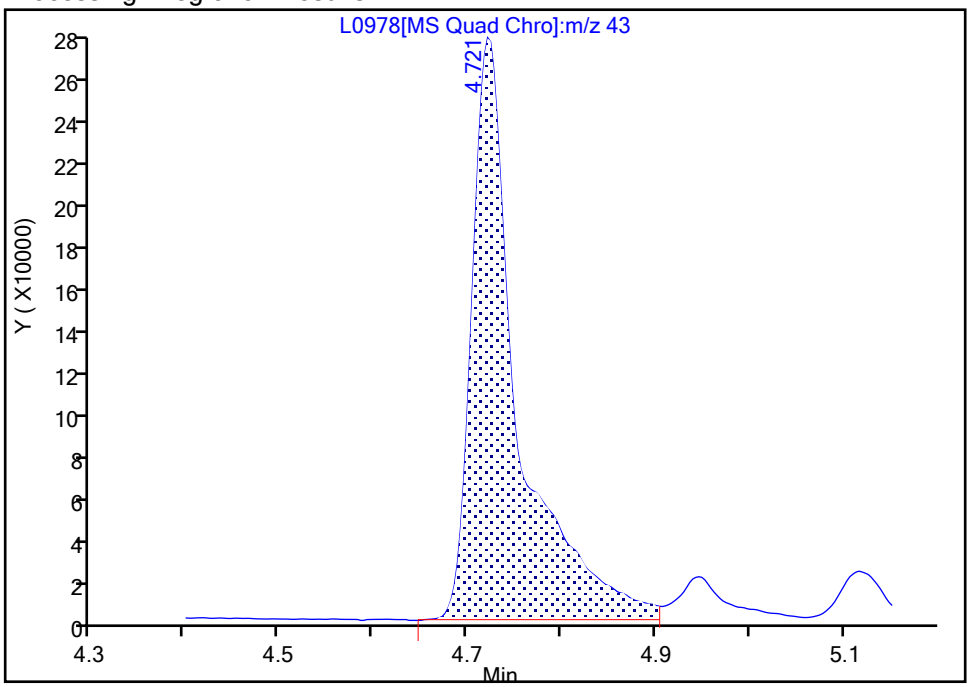
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0978.D
Injection Date: 25-Sep-2023 17:01:09 Instrument ID: HP5977L
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Signal: 1

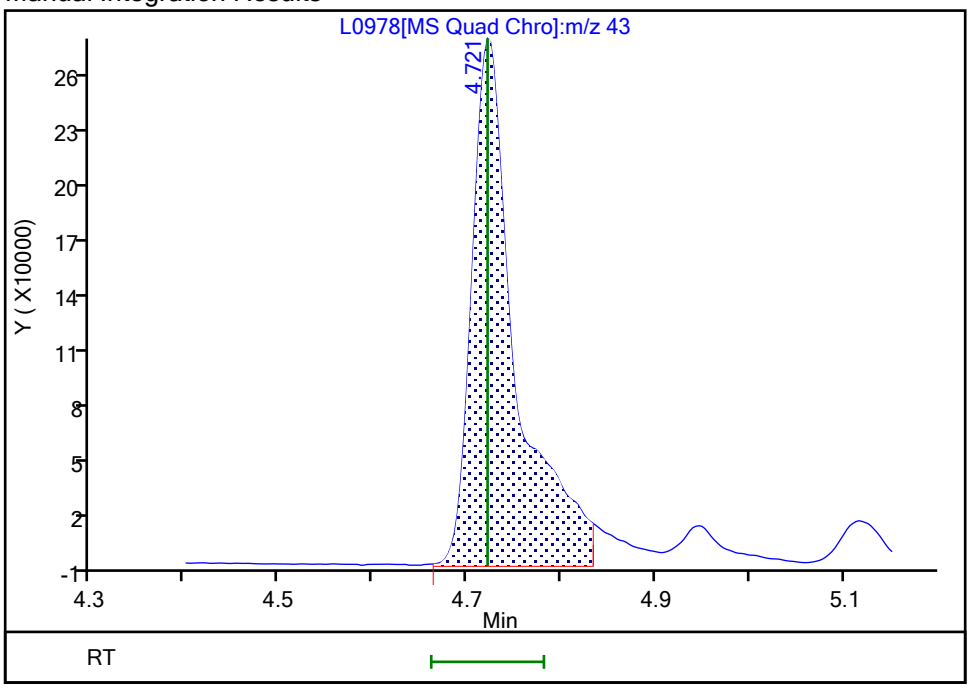
Processing Integration Results

RT: 4.72
Area: 961687
Amount: 146.1606
Amount Units: ug/L



Manual Integration Results

RT: 4.72
Area: 909958
Amount: 139.5525
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:29:28 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

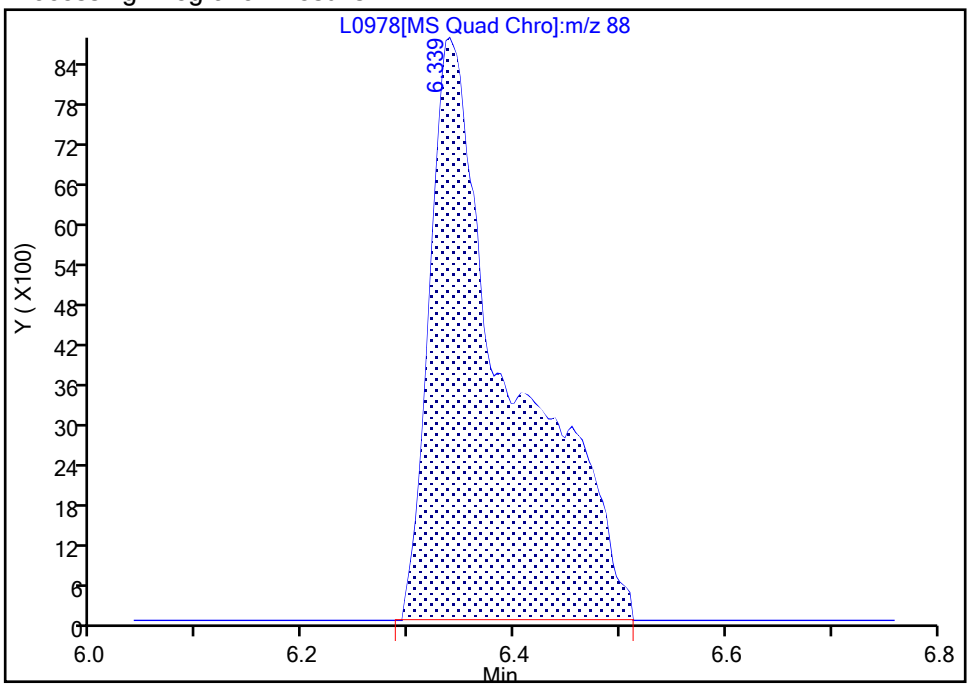
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0978.D
Injection Date: 25-Sep-2023 17:01:09 Instrument ID: HP5977L
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

81 1,4-Dioxane, CAS: 123-91-1

Signal: 1

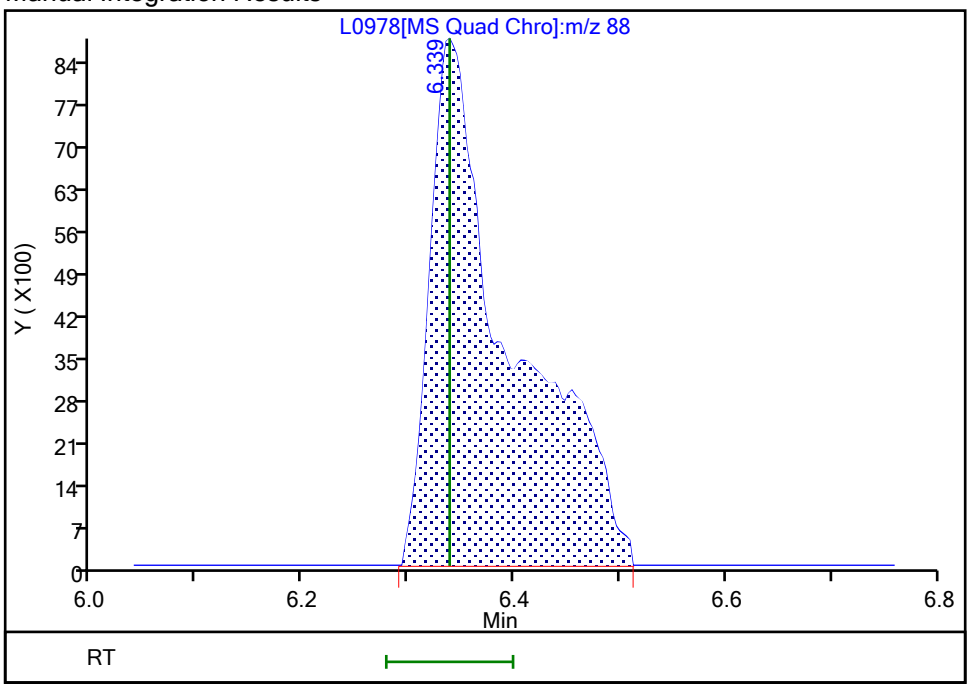
Processing Integration Results

RT: 6.34
Area: 47224
Amount: 596.3459
Amount Units: ug/L



Manual Integration Results

RT: 6.34
Area: 47223
Amount: 587.9354
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 11:13:41 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0979.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 25-Sep-2023 17:25:45 ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0113942-020
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:43:05 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 10:18:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	128627	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.547	0.001	85	511065	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	95	271837	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	80	168649	25.0	25.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.419	5.422	-0.003	98	198342	25.0	24.3	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	646181	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.789	9.789	0.000	98	183820	25.0	25.0	
10 Dichlorodifluoromethane	85	1.725	1.721	0.004	99	627121	50.0	55.0	
13 Chloromethane	50	1.940	1.937	0.003	99	633167	50.0	49.1	
14 Vinyl chloride	62	2.059	2.056	0.003	98	467623	50.0	57.1	
15 Butadiene	54	2.078	2.075	0.003	94	480493	50.0	58.2	
18 Bromomethane	94	2.419	2.416	0.003	91	235659	50.0	52.6	
19 Chloroethane	64	2.484	2.480	0.004	99	253413	50.0	52.5	
20 Dichlorofluoromethane	67	2.705	2.699	0.006	98	629895	50.0	56.3	
21 Trichlorofluoromethane	101	2.731	2.721	0.010	98	563253	50.0	52.7	
26 Ethyl ether	59	2.950	2.950	0.000	94	381694	50.0	49.4	
28 Acrolein	56	3.130	3.130	0.000	99	204852	250.0	237.5	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.162	3.155	0.007	94	393848	50.0	53.6	
30 1,1-Dichloroethene	96	3.191	3.187	0.004	97	376926	50.0	52.0	
31 Acetone	43	3.265	3.271	-0.006	99	701911	250.0	220.8	
33 Iodomethane	142	3.358	3.355	0.003	99	615744	50.0	51.3	
35 Carbon disulfide	76	3.410	3.406	0.004	100	1006837	50.0	51.1	
37 3-Chloro-1-propene	41	3.506	3.503	0.003	90	697850	50.0	51.2	
38 Methyl acetate	43	3.525	3.528	-0.003	99	900511	100.0	89.8	
39 Methylene Chloride	84	3.647	3.647	0.000	96	412336	50.0	50.5	
40 2-Methyl-2-propanol	59	3.738	3.747	-0.009	100	364756	500.0	421.0	
41 Methyl tert-butyl ether	73	3.808	3.808	0.000	97	1131761	50.0	46.2	
42 trans-1,2-Dichloroethene	96	3.840	3.837	0.003	98	411374	50.0	50.4	
44 Acrylonitrile	53	3.879	3.879	0.000	98	1883234	500.0	400.3	
47 Hexane	57	3.998	3.998	0.000	95	651260	50.0	50.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	699908	50.0	49.2	
49 Vinyl acetate	43	4.229	4.229	0.000	97	2124175	100.0	98.5	
56 2,2-Dichloropropane	77	4.683	4.686	-0.003	88	296820	50.0	47.7	
58 cis-1,2-Dichloroethene	96	4.709	4.708	0.001	81	440535	50.0	49.6	
57 2-Butanone (MEK)	43	4.718	4.721	-0.003	100	1335623	250.0	213.6	
60 Chlorobromomethane	128	4.930	4.930	0.000	97	214267	50.0	49.4	
61 Tetrahydrofuran	42	4.946	4.946	0.000	89	388242	100.0	85.2	
62 Chloroform	83	4.979	4.978	0.001	94	691886	50.0	49.0	
64 1,1,1-Trichloroethane	97	5.110	5.110	0.000	98	544026	50.0	51.4	
65 Cyclohexane	56	5.127	5.130	-0.003	94	787360	50.0	51.7	
66 Carbon tetrachloride	117	5.239	5.239	0.000	79	470922	50.0	55.2	
67 1,1-Dichloropropene	75	5.239	5.242	-0.003	94	555110	50.0	51.4	
69 Isobutyl alcohol	43	5.364	5.367	-0.003	95	616164	1250.0	1023.1	
70 Benzene	78	5.435	5.435	0.000	98	1536733	50.0	48.9	
72 1,2-Dichloroethane	62	5.487	5.486	0.001	97	535705	50.0	47.8	
73 n-Heptane	43	5.548	5.551	-0.003	95	743599	50.0	51.0	
75 Trichloroethene	95	5.988	5.988	0.000	97	405879	50.0	50.6	
76 Methylcyclohexane	83	6.110	6.110	0.000	92	762344	50.0	53.3	
77 1,2-Dichloropropane	63	6.220	6.220	0.000	94	386112	50.0	48.7	
81 1,4-Dioxane	88	6.339	6.339	0.000	98	65438	1000.0	860.2	M
82 Dibromomethane	93	6.355	6.355	0.000	96	244377	50.0	49.6	
83 Dichlorobromomethane	83	6.477	6.480	-0.003	99	475507	50.0	53.2	
84 2-Chloroethyl vinyl ether	63	6.709	6.712	-0.004	92	303418	50.0	51.6	
85 cis-1,3-Dichloropropene	75	6.869	6.869	0.000	94	646562	50.0	53.6	
87 4-Methyl-2-pentanone (MIBK)	43	6.982	6.985	-0.003	98	3045855	250.0	225.7	
88 Toluene	92	7.155	7.155	0.000	98	951601	50.0	49.1	
91 trans-1,3-Dichloropropene	75	7.403	7.406	-0.003	95	573406	50.0	53.5	
90 Ethyl methacrylate	69	7.409	7.412	-0.003	91	560908	50.0	50.2	
93 1,1,2-Trichloroethane	83	7.596	7.596	0.000	92	291179	50.0	47.9	
94 Tetrachloroethene	166	7.676	7.679	-0.003	97	400761	50.0	50.6	
95 1,3-Dichloropropane	76	7.760	7.763	-0.003	96	616282	50.0	47.7	
96 2-Hexanone	43	7.789	7.792	-0.003	98	2165157	250.0	230.2	
98 Chlorodibromomethane	129	8.001	8.001	0.000	90	355845	50.0	56.8	
101 Ethylene Dibromide	107	8.123	8.123	0.000	98	377872	50.0	49.5	
103 Chlorobenzene	112	8.577	8.580	-0.003	96	1029642	50.0	48.8	
104 Ethylbenzene	91	8.647	8.647	0.000	99	1756738	50.0	48.7	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	96	347662	50.0	51.9	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.000	99	691187	50.0	49.4	
107 o-Xylene	106	9.194	9.194	0.000	96	668131	50.0	47.4	
109 Styrene	104	9.220	9.219	0.001	95	1089781	50.0	49.6	
110 Bromoform	173	9.490	9.493	-0.003	96	243720	50.0	48.8	
111 Isopropylbenzene	105	9.567	9.564	0.003	96	1731358	50.0	48.6	
113 Bromobenzene	156	9.959	9.959	0.000	95	422993	50.0	48.4	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.975	0.000	95	533601	50.0	46.4	
114 N-Propylbenzene	91	10.011	10.010	0.001	99	2111791	50.0	49.3	
115 trans-1,4-Dichloro-2-butene	53	10.024	10.023	0.001	76	194719	50.0	51.8	
116 1,2,3-Trichloropropane	110	10.027	10.027	0.000	86	173704	50.0	46.0	
117 2-Chlorotoluene	126	10.136	10.139	-0.003	97	405031	50.0	48.2	
118 1,3,5-Trimethylbenzene	105	10.188	10.187	0.001	94	1443211	50.0	48.6	
119 4-Chlorotoluene	91	10.252	10.252	0.000	98	1262903	50.0	49.5	
120 tert-Butylbenzene	134	10.519	10.518	0.001	93	328276	50.0	49.3	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	97	1496261	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	1882946	50.0	48.6	
123 4-Isopropyltoluene	119	10.866	10.863	0.003	97	1603539	50.0	49.0	
124 1,3-Dichlorobenzene	146	10.892	10.888	0.004	98	808608	50.0	47.7	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	95	831344	50.0	47.9	
127 n-Butylbenzene	91	11.249	11.248	0.001	98	1533665	50.0	50.2	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	792959	50.0	46.5	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.030	0.000	87	116962	50.0	50.9	
130 1,2,4-Trichlorobenzene	180	12.657	12.660	-0.003	95	623496	50.0	49.3	
131 Hexachlorobutadiene	225	12.747	12.747	0.000	97	259986	50.0	53.5	
132 Naphthalene	128	12.869	12.869	0.000	97	1988846	50.0	47.6	
133 1,2,3-Trichlorobenzene	180	13.062	13.065	-0.003	96	585741	50.0	48.4	
S 141 1,2-Dichloroethene, Total	1				0			100.0	
S 142 Total BTEX	1				0			243.5	
S 144 1,3-Dichloropropene, Total	1				0			107.2	
S 143 Xylenes, Total	1				0			96.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

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GAS CORP mix_00587	Amount Added:	25.00	Units: uL	
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:43:06 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0979.D

Injection Date: 25-Sep-2023 17:25:45 Instrument ID: HP5977L

Lims ID: IC 6

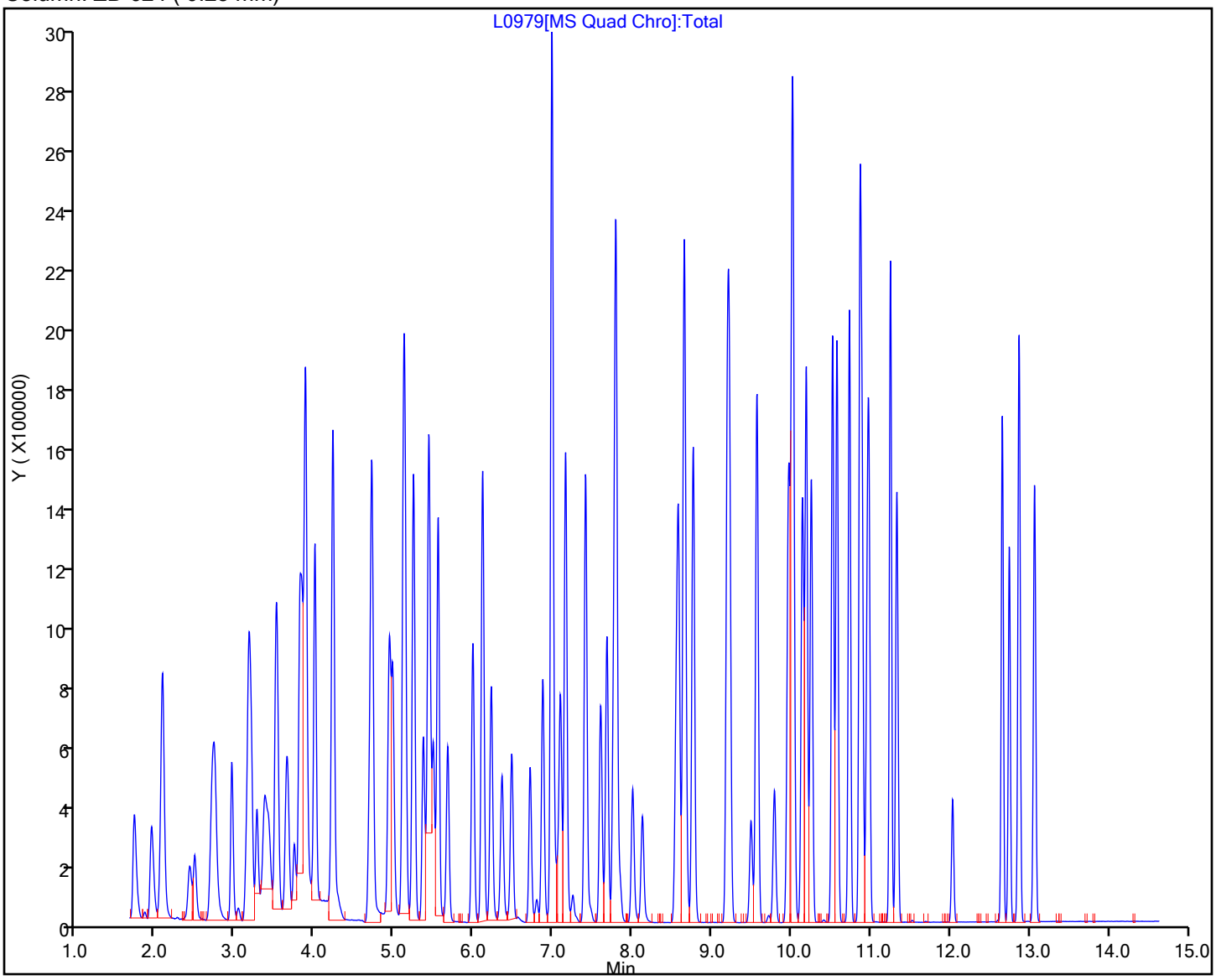
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 20

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



10/13/2023
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Manual Integration/User Assign Peak Report

Eurofins Buffalo

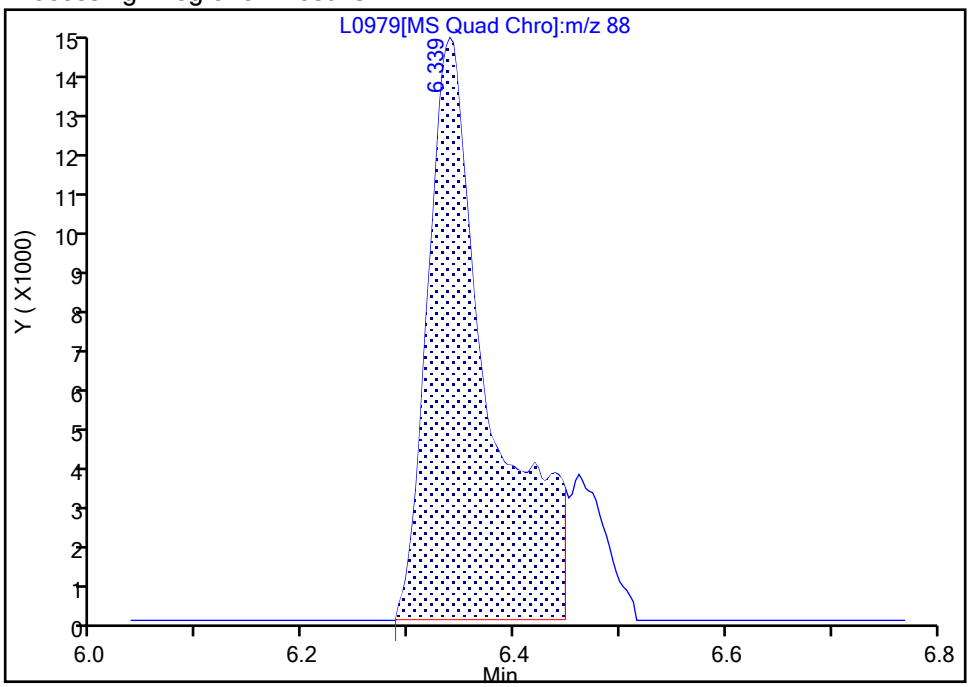
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0979.D
Injection Date: 25-Sep-2023 17:25:45 Instrument ID: HP5977L
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

81 1,4-Dioxane, CAS: 123-91-1

Signal: 1

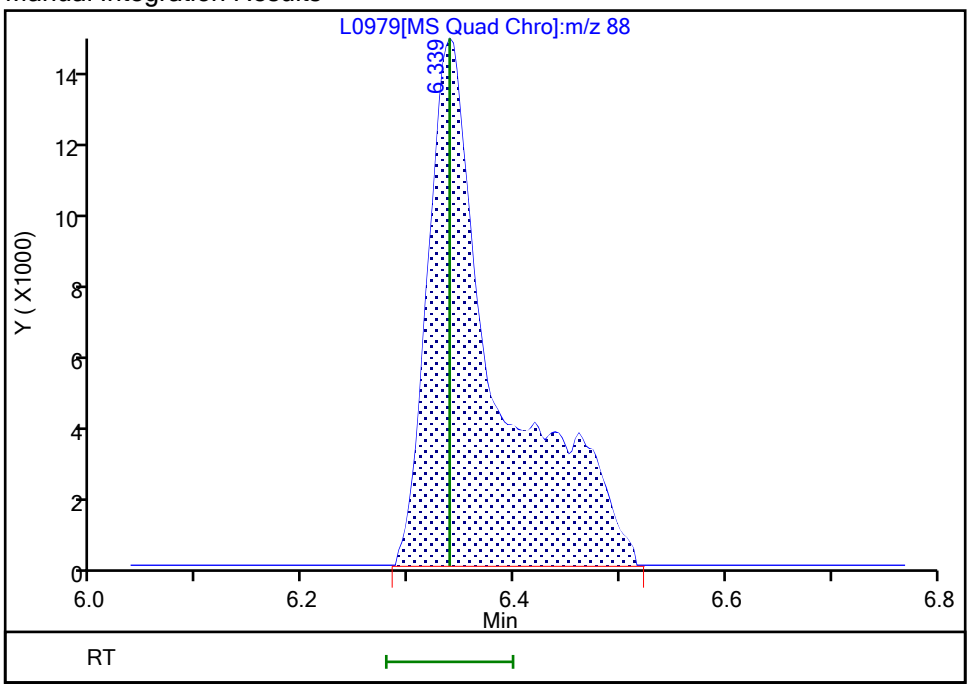
Processing Integration Results

RT: 6.34
Area: 57085
Amount: 844.8960
Amount Units: ug/L



Manual Integration Results

RT: 6.34
Area: 65438
Amount: 860.2079
Amount Units: ug/L



Reviewer: WLL8, 26-Sep-2023 10:18:11 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0980.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 25-Sep-2023 17:49:53 ALS Bottle#: 0 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0113942-021
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:43:18 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 10:19:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	131176	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.547	0.001	87	514100	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	95	269733	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	89	169365	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	197686	25.0	23.7	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	674876	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.789	-0.003	97	193930	25.0	26.2	
10 Dichlorodifluoromethane	85	1.725	1.721	0.004	99	1176383	100.0	101.2	
13 Chloromethane	50	1.940	1.937	0.003	99	1219093	100.0	92.6	
14 Vinyl chloride	62	2.059	2.056	0.003	98	889114	100.0	106.4	
15 Butadiene	54	2.078	2.075	0.003	95	825200	100.0	97.9	
18 Bromomethane	94	2.416	2.416	0.000	93	465619	100.0	101.0	
19 Chloroethane	64	2.487	2.480	0.007	99	486880	100.0	99.0	
20 Dichlorofluoromethane	67	2.705	2.699	0.006	98	1213747	100.0	106.5	
21 Trichlorofluoromethane	101	2.728	2.721	0.007	98	1082764	100.0	98.8	
26 Ethyl ether	59	2.950	2.950	0.000	95	746812	100.0	94.8	
28 Acrolein	56	3.130	3.130	0.000	100	398285	500.0	452.7	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.162	3.155	0.007	94	744756	100.0	99.5	
30 1,1-Dichloroethene	96	3.194	3.187	0.007	97	729771	100.0	98.7	
31 Acetone	43	3.268	3.271	-0.003	100	1455789	500.0	449.1	
33 Iodomethane	142	3.361	3.355	0.006	99	1217093	100.0	99.4	
35 Carbon disulfide	76	3.413	3.406	0.007	100	2052364	100.0	101.4	
37 3-Chloro-1-propene	41	3.503	3.503	0.000	93	1349471	100.0	97.1	
38 Methyl acetate	43	3.525	3.528	-0.003	99	1751268	200.0	171.3	
39 Methylene Chloride	84	3.651	3.647	0.004	97	808705	100.0	97.6	
40 2-Methyl-2-propanol	59	3.741	3.747	-0.006	100	740731	1000.0	838.4	
41 Methyl tert-butyl ether	73	3.808	3.808	0.000	97	2277470	100.0	91.1	
42 trans-1,2-Dichloroethene	96	3.840	3.837	0.003	98	789798	100.0	94.8	
44 Acrylonitrile	53	3.879	3.879	0.000	98	3655942	1000.0	762.1	
47 Hexane	57	3.998	3.998	0.000	95	1227313	100.0	93.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	1356488	100.0	93.6	
49 Vinyl acetate	43	4.229	4.229	0.000	97	4165304	200.0	189.4	
56 2,2-Dichloropropane	77	4.683	4.686	-0.003	89	545476	100.0	86.0	
58 cis-1,2-Dichloroethene	96	4.709	4.708	0.001	84	852938	100.0	94.2	
57 2-Butanone (MEK)	43	4.721	4.721	0.000	100	2698357	500.0	423.2	
60 Chlorobromomethane	128	4.930	4.930	0.000	97	414077	100.0	93.7	
61 Tetrahydrofuran	42	4.947	4.946	0.001	91	770951	200.0	165.9	
62 Chloroform	83	4.979	4.978	0.001	93	1354538	100.0	94.0	
64 1,1,1-Trichloroethane	97	5.111	5.110	0.000	98	1082583	100.0	100.3	
65 Cyclohexane	56	5.130	5.130	0.000	94	1495250	100.0	96.3	
66 Carbon tetrachloride	117	5.242	5.239	0.003	88	951299	100.0	109.4	
67 1,1-Dichloropropene	75	5.239	5.242	-0.003	93	1088027	100.0	98.7	
69 Isobutyl alcohol	43	5.365	5.367	-0.003	95	1265950	2500.0	2061.1	
70 Benzene	78	5.435	5.435	0.000	98	3015292	100.0	94.2	
72 1,2-Dichloroethane	62	5.490	5.486	0.004	97	1059165	100.0	92.6	
73 n-Heptane	43	5.551	5.551	0.000	96	1423725	100.0	95.7	
75 Trichloroethene	95	5.988	5.988	0.000	98	819928	100.0	100.2	
76 Methylcyclohexane	83	6.110	6.110	0.000	92	1441022	100.0	98.8	
77 1,2-Dichloropropane	63	6.220	6.220	0.000	95	783102	100.0	96.9	
81 1,4-Dioxane	88	6.339	6.339	0.000	95	135627	2000.0	1772.3	
82 Dibromomethane	93	6.355	6.355	0.000	97	489124	100.0	97.3	
83 Dichlorobromomethane	83	6.477	6.480	-0.003	99	997173	100.0	109.4	
84 2-Chloroethyl vinyl ether	63	6.709	6.712	-0.003	93	613055	100.0	102.1	
85 cis-1,3-Dichloropropene	75	6.869	6.869	0.000	94	1330513	100.0	108.2	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.985	0.000	98	5651810	500.0	416.3	
88 Toluene	92	7.155	7.155	0.000	98	1895727	100.0	97.1	
91 trans-1,3-Dichloropropene	75	7.403	7.406	-0.003	97	1184028	100.0	109.8	
90 Ethyl methacrylate	69	7.413	7.412	0.001	91	1150405	100.0	102.3	
93 1,1,2-Trichloroethane	83	7.599	7.596	0.003	92	572113	100.0	93.5	
94 Tetrachloroethene	166	7.676	7.679	-0.003	96	802397	100.0	100.6	
95 1,3-Dichloropropane	76	7.760	7.763	-0.003	97	1229823	100.0	94.7	
96 2-Hexanone	43	7.789	7.792	-0.003	98	4279814	500.0	452.3	
98 Chlorodibromomethane	129	8.001	8.001	0.000	90	755055	100.0	119.9	
101 Ethylene Dibromide	107	8.123	8.123	0.000	98	760221	100.0	99.1	
103 Chlorobenzene	112	8.577	8.580	-0.003	94	2072633	100.0	97.6	
104 Ethylbenzene	91	8.647	8.647	0.000	99	3556157	100.0	97.9	
105 1,1,1,2-Tetrachloroethane	131	8.663	8.660	0.003	95	718974	100.0	106.7	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.000	99	1407041	100.0	100.0	
107 o-Xylene	106	9.194	9.194	0.000	96	1341727	100.0	94.7	
109 Styrene	104	9.220	9.219	0.001	95	2184590	100.0	98.9	
110 Bromoform	173	9.493	9.493	0.000	96	525238	100.0	103.9	
111 Isopropylbenzene	105	9.567	9.564	0.003	96	3513731	100.0	99.4	
113 Bromobenzene	156	9.959	9.959	0.000	95	849422	100.0	98.0	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.975	0.000	96	1055512	100.0	92.4	
114 N-Propylbenzene	91	10.011	10.010	0.001	99	4197377	100.0	98.7	
115 trans-1,4-Dichloro-2-butene	53	10.027	10.023	0.004	76	398076	100.0	106.6	
116 1,2,3-Trichloropropane	110	10.027	10.027	0.000	86	341981	100.0	91.2	
117 2-Chlorotoluene	126	10.139	10.139	0.000	97	813226	100.0	97.6	
118 1,3,5-Trimethylbenzene	105	10.188	10.187	0.001	95	2945561	100.0	99.9	
119 4-Chlorotoluene	91	10.252	10.252	0.000	98	2535630	100.0	100.1	
120 tert-Butylbenzene	134	10.519	10.518	0.001	93	665428	100.0	100.8	
121 1,2,4-Trimethylbenzene	105	10.577	10.573	0.004	98	3029924	100.0	98.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	3774637	100.0	98.1	
123 4-Isopropyltoluene	119	10.866	10.863	0.003	97	3244664	100.0	99.9	
124 1,3-Dichlorobenzene	146	10.892	10.888	0.004	98	1608119	100.0	95.7	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	95	1656019	100.0	96.2	
127 n-Butylbenzene	91	11.249	11.248	0.001	98	3100046	100.0	102.2	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	1581834	100.0	93.4	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.030	0.000	93	257927	100.0	113.2	
130 1,2,4-Trichlorobenzene	180	12.660	12.660	0.000	95	1262533	100.0	100.6	
131 Hexachlorobutadiene	225	12.747	12.747	0.000	98	508866	100.0	105.6	
132 Naphthalene	128	12.869	12.869	0.000	97	4082061	100.0	98.5	
133 1,2,3-Trichlorobenzene	180	13.065	13.065	0.000	96	1192734	100.0	99.3	
S 141 1,2-Dichloroethene, Total	1				0			189.0	
S 142 Total BTEX	1				0			483.9	
S 144 1,3-Dichloropropene, Total	1				0			218.1	
S 143 Xylenes, Total	1				0			194.7	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00244	Amount Added:	50.00	Units: uL	
GAS CORP mix_00587	Amount Added:	50.00	Units: uL	
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:43:18 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0980.D

Injection Date: 25-Sep-2023 17:49:53 Instrument ID: HP5977L

Lims ID: IC 7

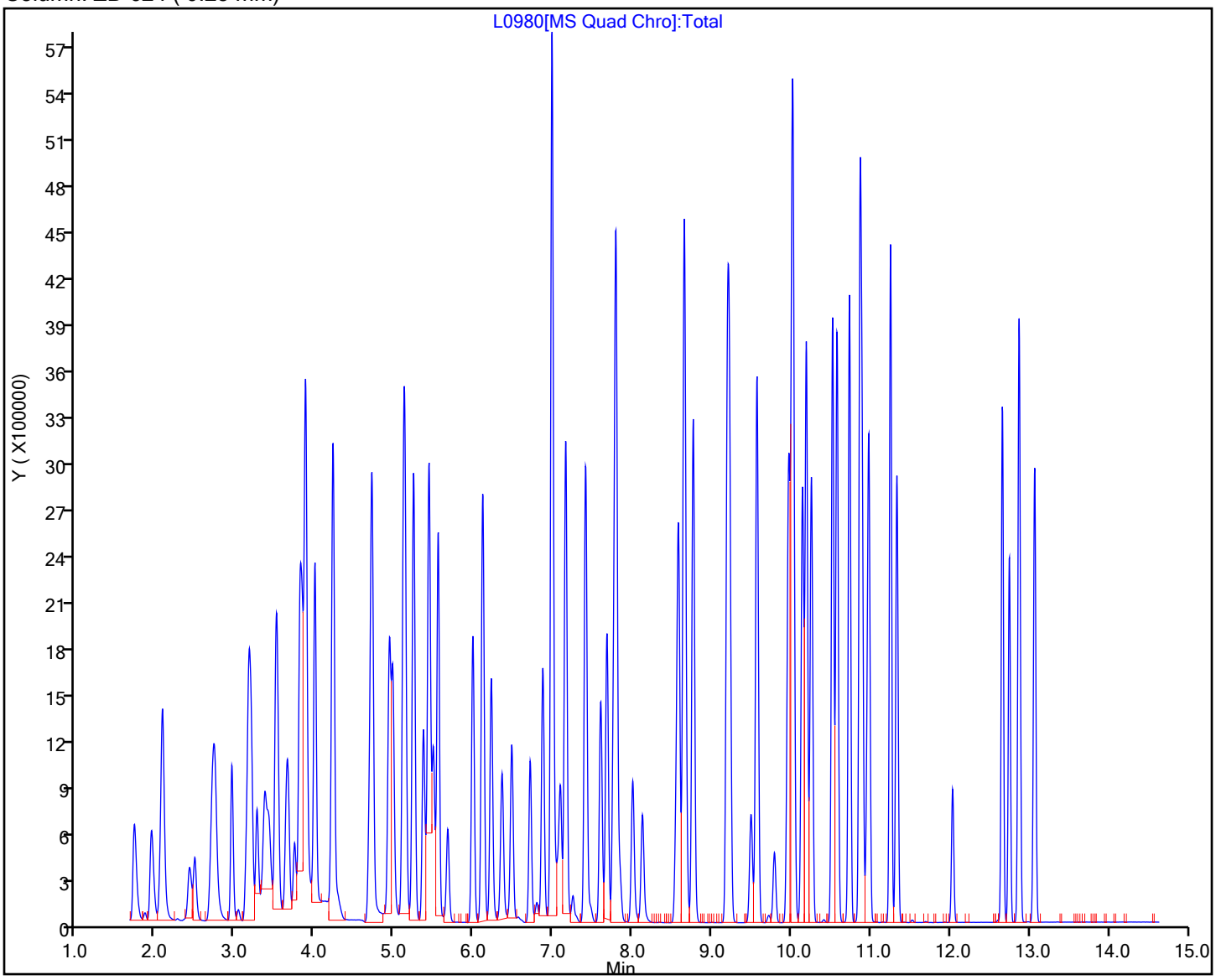
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 21

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

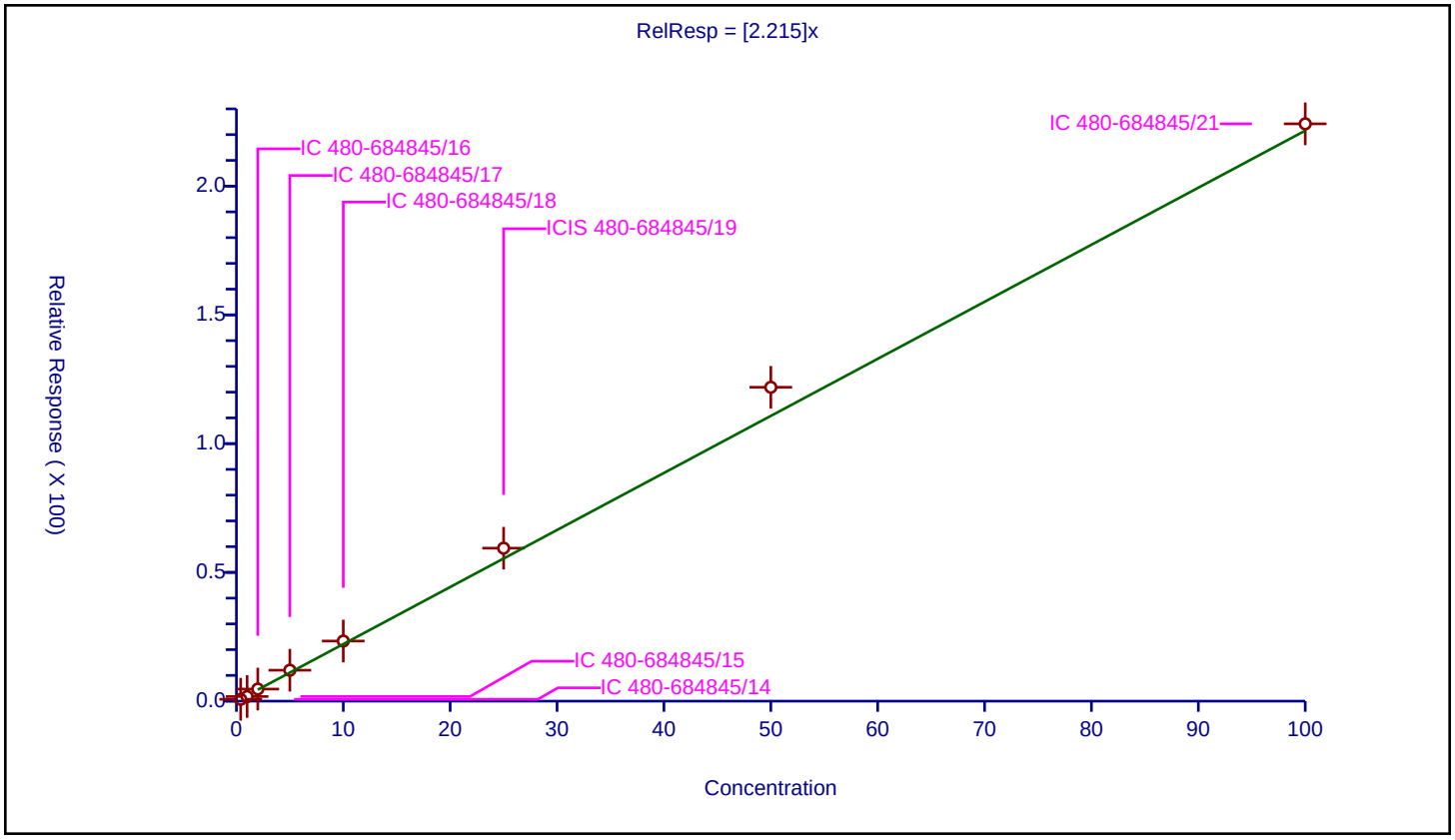
Curve Coefficients

Intercept:	0
Slope:	2.215

Error Coefficients

Standard Error:	521000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.715007	25.0	151572.0	1.787517	Y
2	IC 480-684845/15	1.0	1.799111	25.0	145030.0	1.799111	Y
3	IC 480-684845/16	2.0	4.691179	25.0	147367.0	2.34559	Y
4	IC 480-684845/17	5.0	12.009411	25.0	140367.0	2.401882	Y
5	IC 480-684845/18	10.0	23.335367	25.0	133573.0	2.333537	Y
6	ICIS 480-684845/19	25.0	59.403143	25.0	134136.0	2.376126	Y
7	IC 480-684845/20	50.0	121.887512	25.0	128627.0	2.43775	Y
8	IC 480-684845/21	100.0	224.199358	25.0	131176.0	2.241994	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

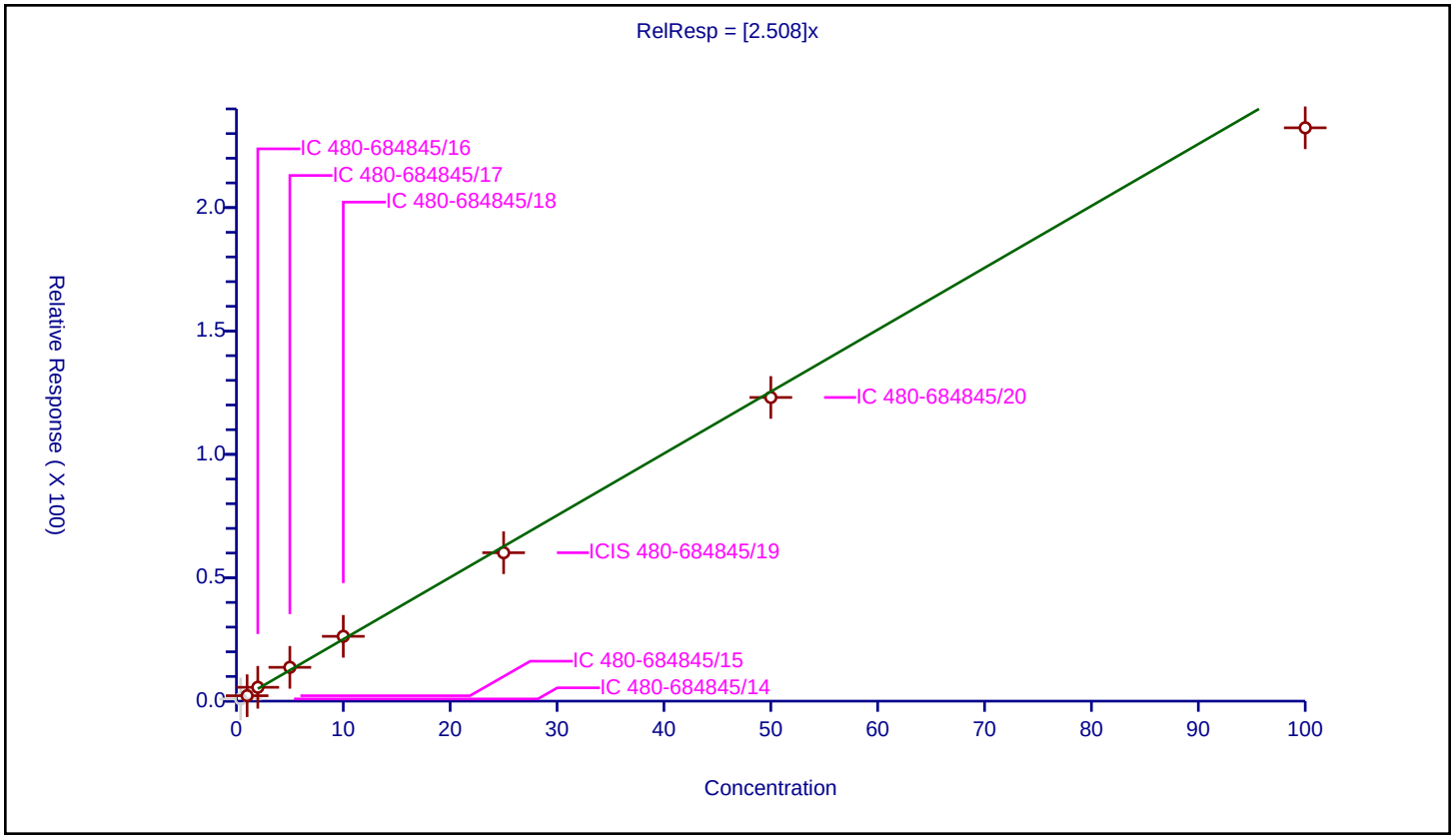
Curve Coefficients

Intercept:	0
Slope:	2.508

Error Coefficients

Standard Error:	580000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.893965	25.0	151572.0	2.234911	N
2	IC 480-684845/15	1.0	2.199717	25.0	145030.0	2.199717	Y
3	IC 480-684845/16	2.0	5.602679	25.0	147367.0	2.80134	Y
4	IC 480-684845/17	5.0	13.703363	25.0	140367.0	2.740673	Y
5	IC 480-684845/18	10.0	26.266536	25.0	133573.0	2.626654	Y
6	ICIS 480-684845/19	25.0	60.139709	25.0	134136.0	2.405588	Y
7	IC 480-684845/20	50.0	123.062615	25.0	128627.0	2.461252	Y
8	IC 480-684845/21	100.0	232.339186	25.0	131176.0	2.323392	Y



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Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

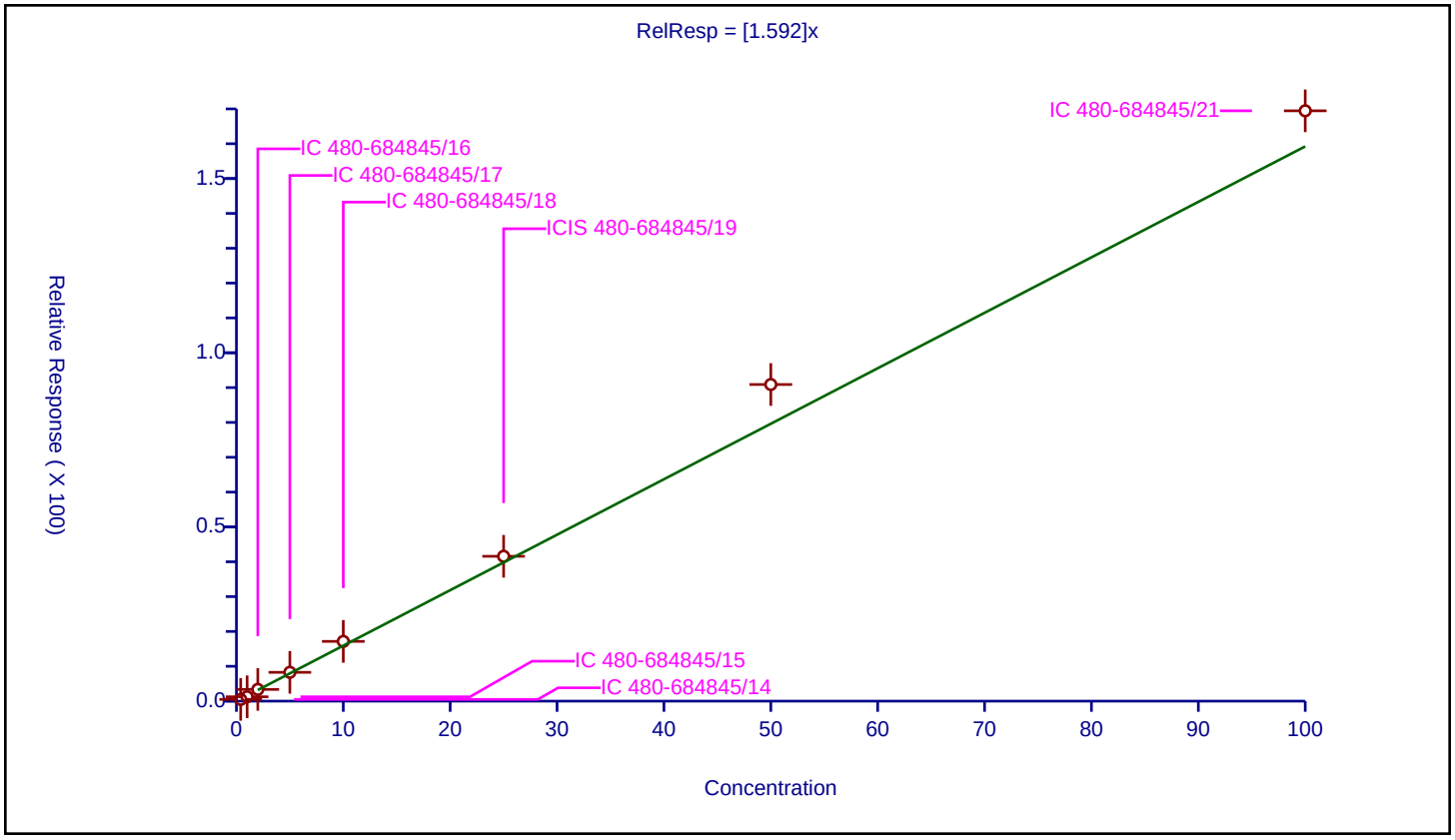
Curve Coefficients

Intercept:	0
Slope:	1.592

Error Coefficients

Standard Error:	391000
Relative Standard Error:	13.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.503721	25.0	151572.0	1.259303	Y
2	IC 480-684845/15	1.0	1.249224	25.0	145030.0	1.249224	Y
3	IC 480-684845/16	2.0	3.371345	25.0	147367.0	1.685673	Y
4	IC 480-684845/17	5.0	8.270641	25.0	140367.0	1.654128	Y
5	IC 480-684845/18	10.0	17.150734	25.0	133573.0	1.715073	Y
6	ICIS 480-684845/19	25.0	41.579815	25.0	134136.0	1.663193	Y
7	IC 480-684845/20	50.0	90.887411	25.0	128627.0	1.817748	Y
8	IC 480-684845/21	100.0	169.450585	25.0	131176.0	1.694506	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

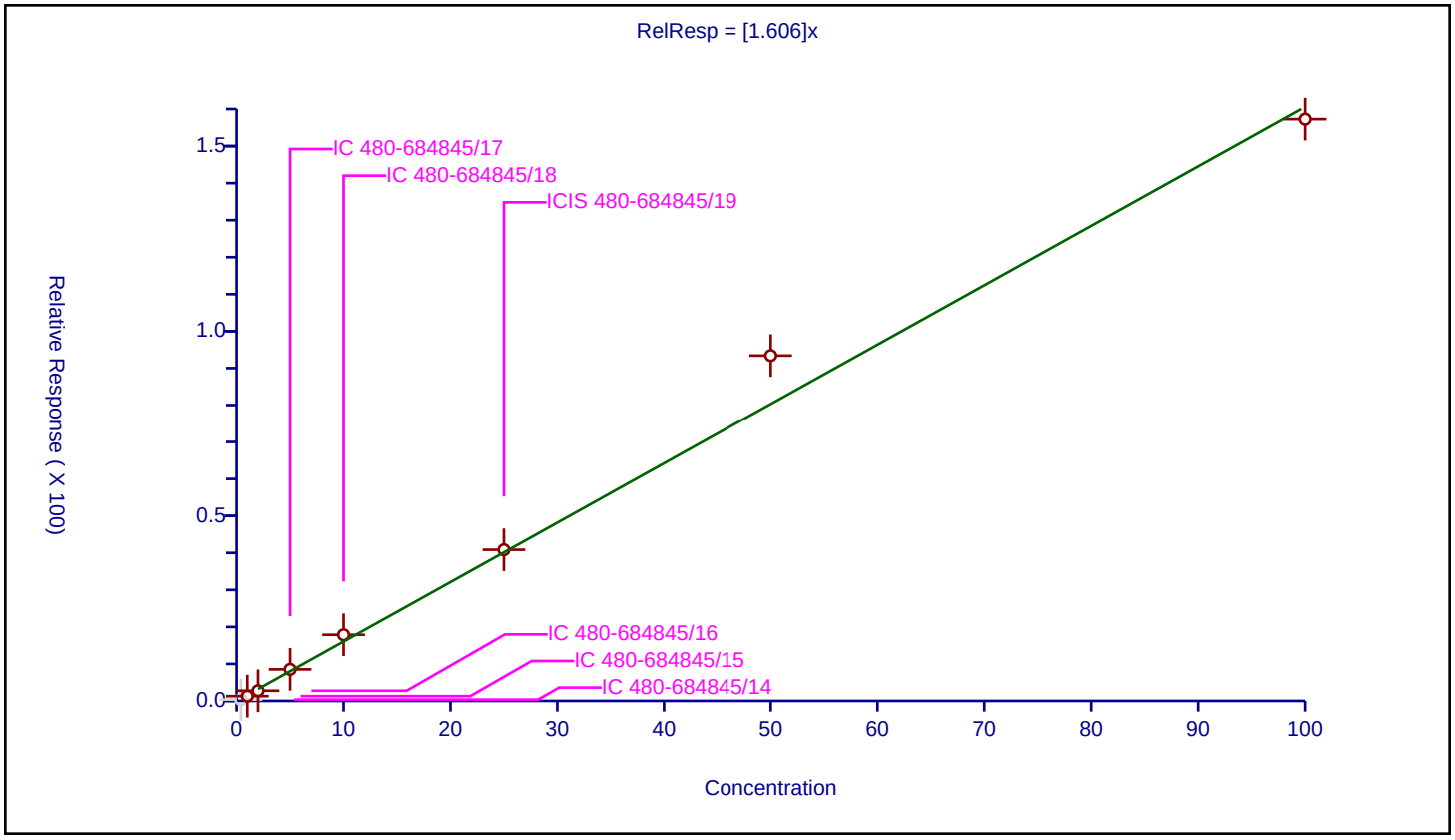
Curve Coefficients

Intercept:	0
Slope:	1.606

Error Coefficients

Standard Error:	402000
Relative Standard Error:	13.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.357256	25.0	151572.0	0.89314	N
2	IC 480-684845/15	1.0	1.293181	25.0	145030.0	1.293181	Y
3	IC 480-684845/16	2.0	2.755366	25.0	147367.0	1.377683	Y
4	IC 480-684845/17	5.0	8.531029	25.0	140367.0	1.706206	Y
5	IC 480-684845/18	10.0	17.885913	25.0	133573.0	1.788591	Y
6	ICIS 480-684845/19	25.0	40.859277	25.0	134136.0	1.634371	Y
7	IC 480-684845/20	50.0	93.38883	25.0	128627.0	1.867777	Y
8	IC 480-684845/21	100.0	157.269622	25.0	131176.0	1.572696	Y



10/13/2023
10:08 AM

Calibration / Bromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

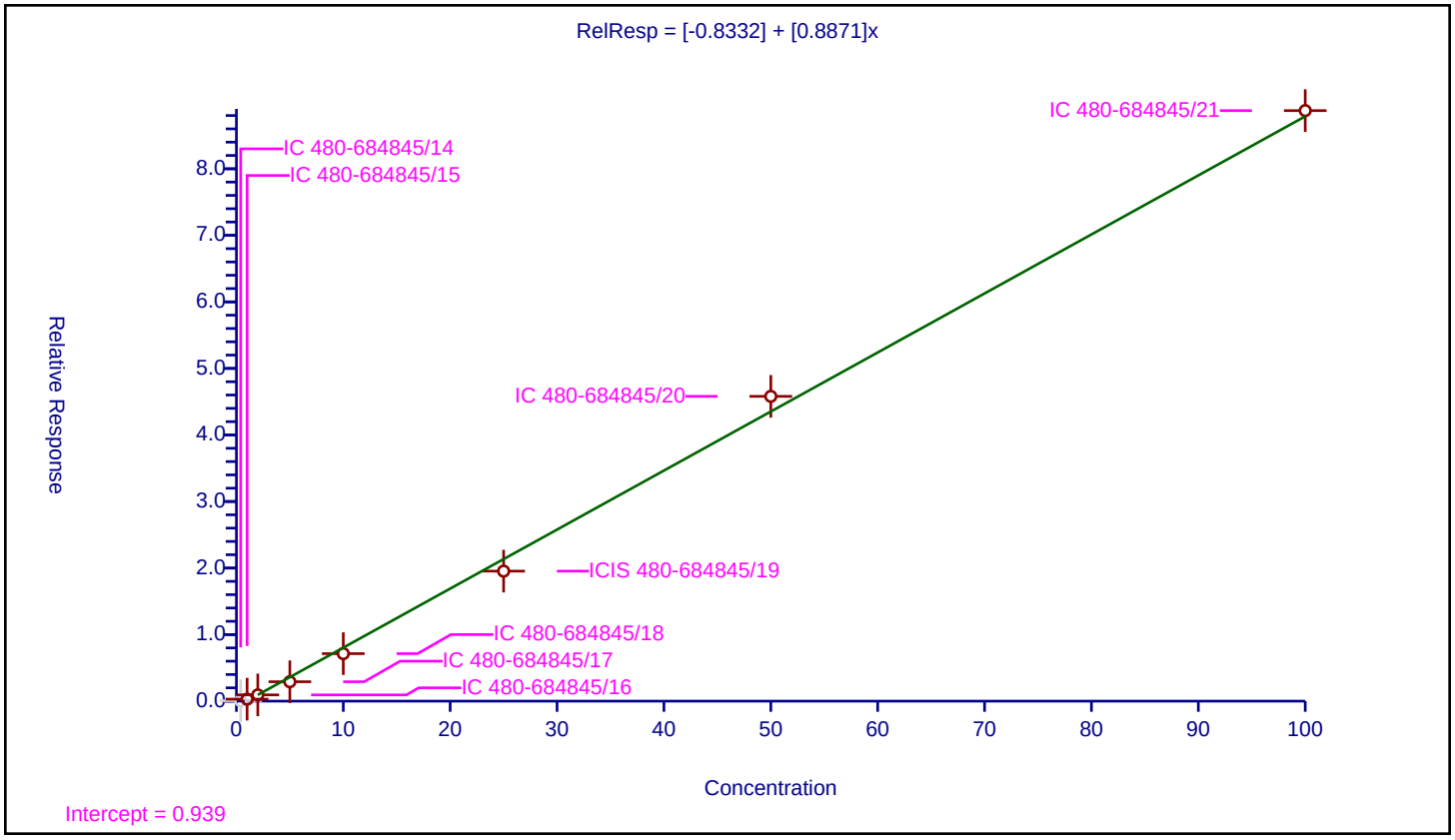
Curve Coefficients

Intercept:	-0.8332
Slope:	0.8871

Error Coefficients

Standard Error:	239000
Relative Standard Error:	15.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.064161	25.0	151572.0	0.160402	N
2	IC 480-684845/15	1.0	0.30011	25.0	145030.0	0.30011	Y
3	IC 480-684845/16	2.0	0.938813	25.0	147367.0	0.469406	Y
4	IC 480-684845/17	5.0	2.915571	25.0	140367.0	0.583114	Y
5	IC 480-684845/18	10.0	7.138232	25.0	133573.0	0.713823	Y
6	ICIS 480-684845/19	25.0	19.538938	25.0	134136.0	0.781558	Y
7	IC 480-684845/20	50.0	45.802786	25.0	128627.0	0.916056	Y
8	IC 480-684845/21	100.0	88.739365	25.0	131176.0	0.887394	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

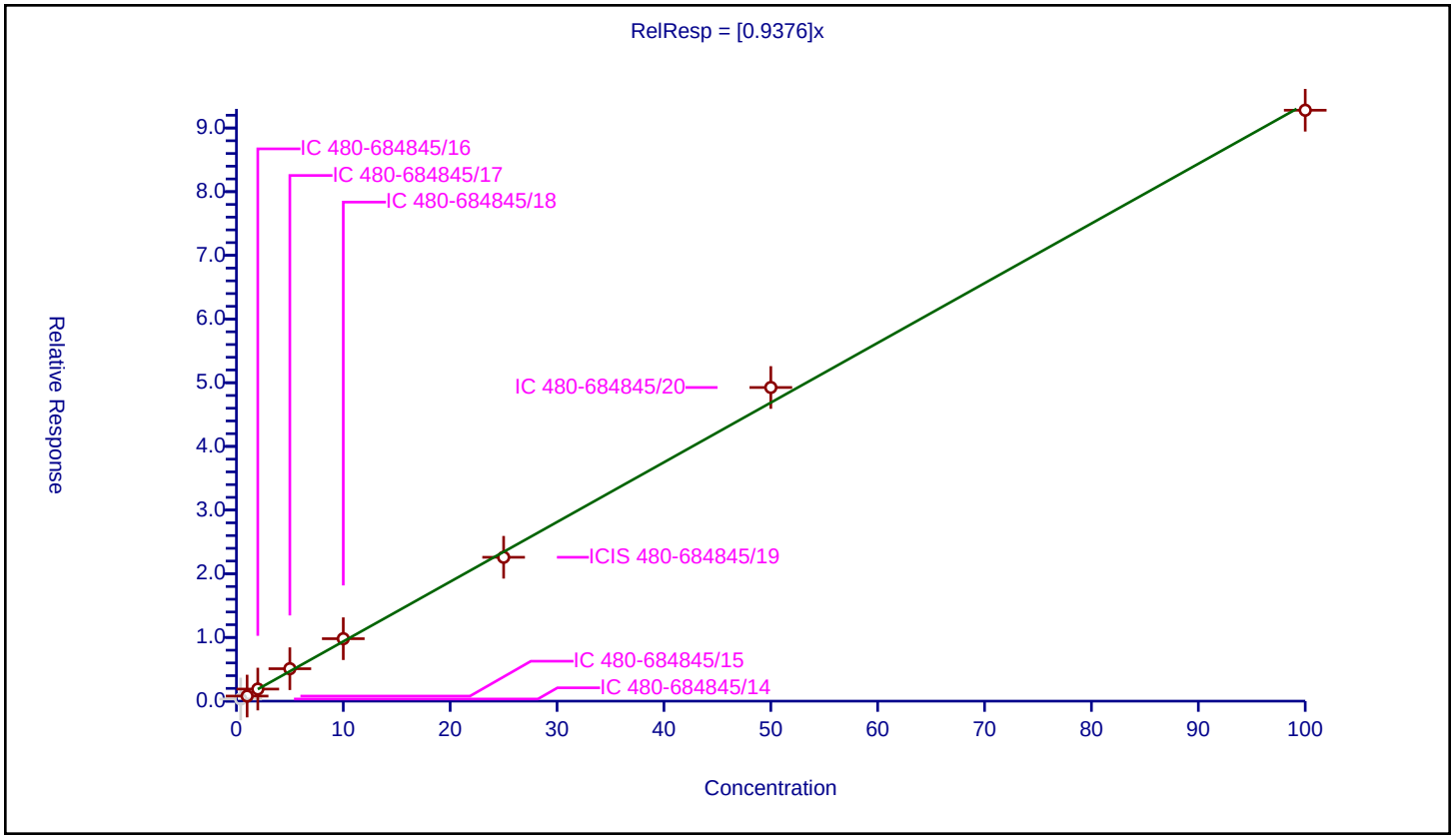
Curve Coefficients

Intercept:	0
Slope:	0.9376

Error Coefficients

Standard Error:	231000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.335979	25.0	151572.0	0.839947	N
2	IC 480-684845/15	1.0	0.797938	25.0	145030.0	0.797938	Y
3	IC 480-684845/16	2.0	1.898661	25.0	147367.0	0.949331	Y
4	IC 480-684845/17	5.0	5.093077	25.0	140367.0	1.018615	Y
5	IC 480-684845/18	10.0	9.805125	25.0	133573.0	0.980513	Y
6	ICIS 480-684845/19	25.0	22.589573	25.0	134136.0	0.903583	Y
7	IC 480-684845/20	50.0	49.253462	25.0	128627.0	0.985069	Y
8	IC 480-684845/21	100.0	92.791364	25.0	131176.0	0.927914	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

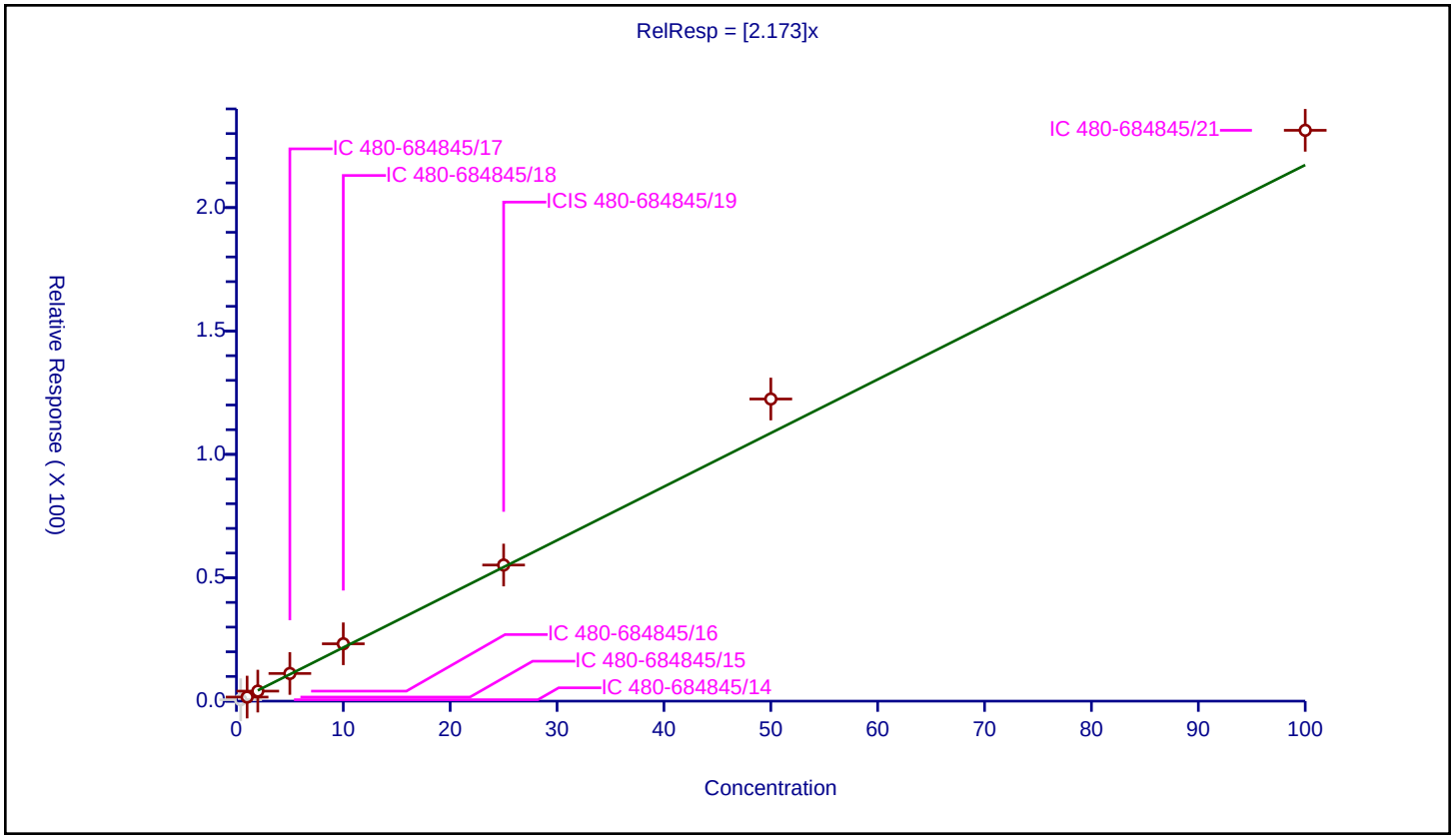
Curve Coefficients

Intercept:	0
Slope:	2.173

Error Coefficients

Standard Error:	574000
Relative Standard Error:	12.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.577943	25.0	151572.0	1.444858	N
2	IC 480-684845/15	1.0	1.644143	25.0	145030.0	1.644143	Y
3	IC 480-684845/16	2.0	4.061459	25.0	147367.0	2.030729	Y
4	IC 480-684845/17	5.0	11.208475	25.0	140367.0	2.241695	Y
5	IC 480-684845/18	10.0	23.238604	25.0	133573.0	2.32386	Y
6	ICIS 480-684845/19	25.0	55.161739	25.0	134136.0	2.20647	Y
7	IC 480-684845/20	50.0	122.426668	25.0	128627.0	2.448533	Y
8	IC 480-684845/21	100.0	231.320325	25.0	131176.0	2.313203	Y



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Calibration / Trichlorofluoromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

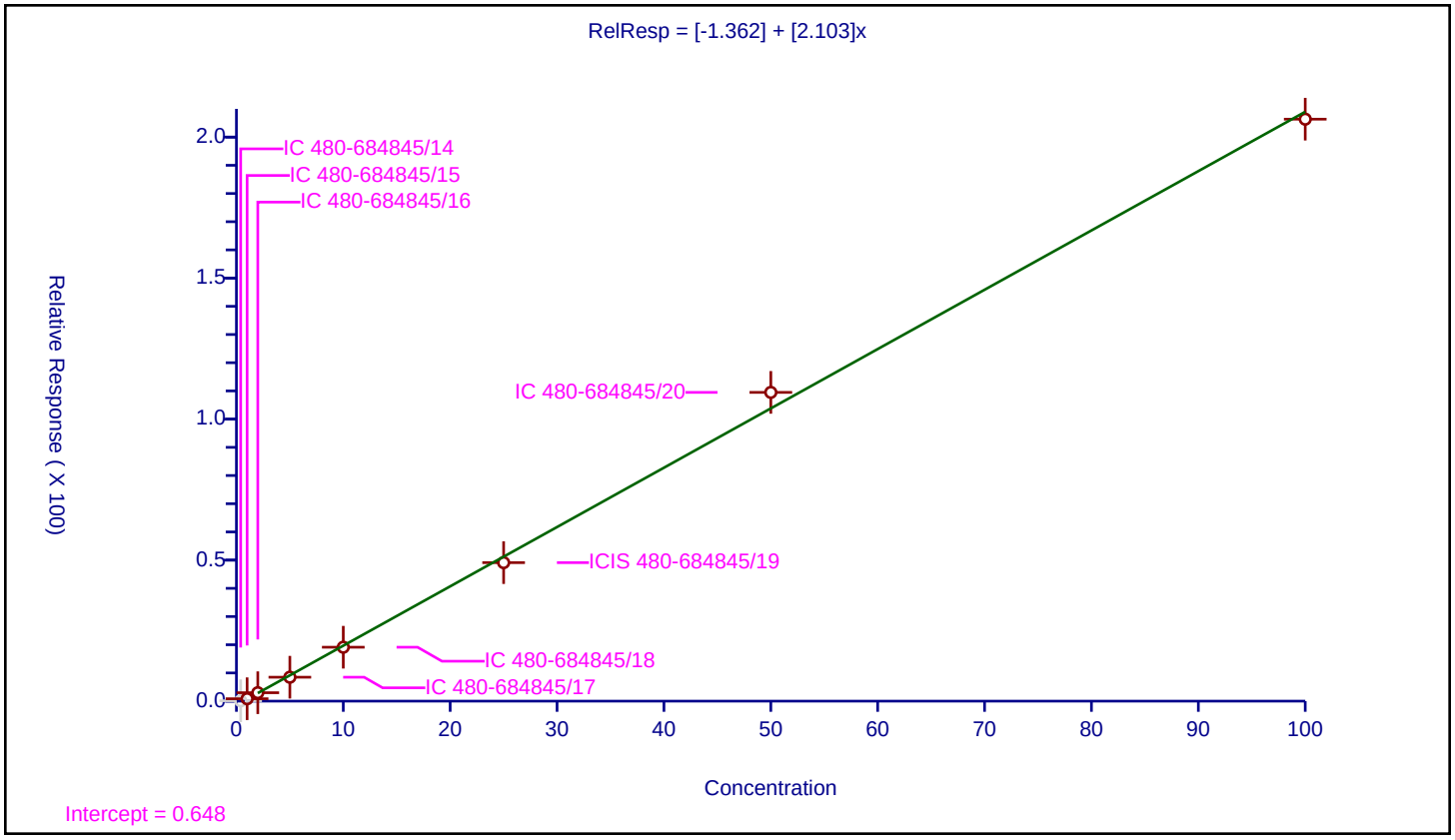
Curve Coefficients

Intercept:	-1.362
Slope:	2.103

Error Coefficients

Standard Error:	561000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.141352	25.0	151572.0	0.35338	N
2	IC 480-684845/15	1.0	0.856547	25.0	145030.0	0.856547	Y
3	IC 480-684845/16	2.0	2.984725	25.0	147367.0	1.492363	Y
4	IC 480-684845/17	5.0	8.48116	25.0	140367.0	1.696232	Y
5	IC 480-684845/18	10.0	19.121566	25.0	133573.0	1.912157	Y
6	ICIS 480-684845/19	25.0	49.108554	25.0	134136.0	1.964342	Y
7	IC 480-684845/20	50.0	109.4741	25.0	128627.0	2.189482	Y
8	IC 480-684845/21	100.0	206.357108	25.0	131176.0	2.063571	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

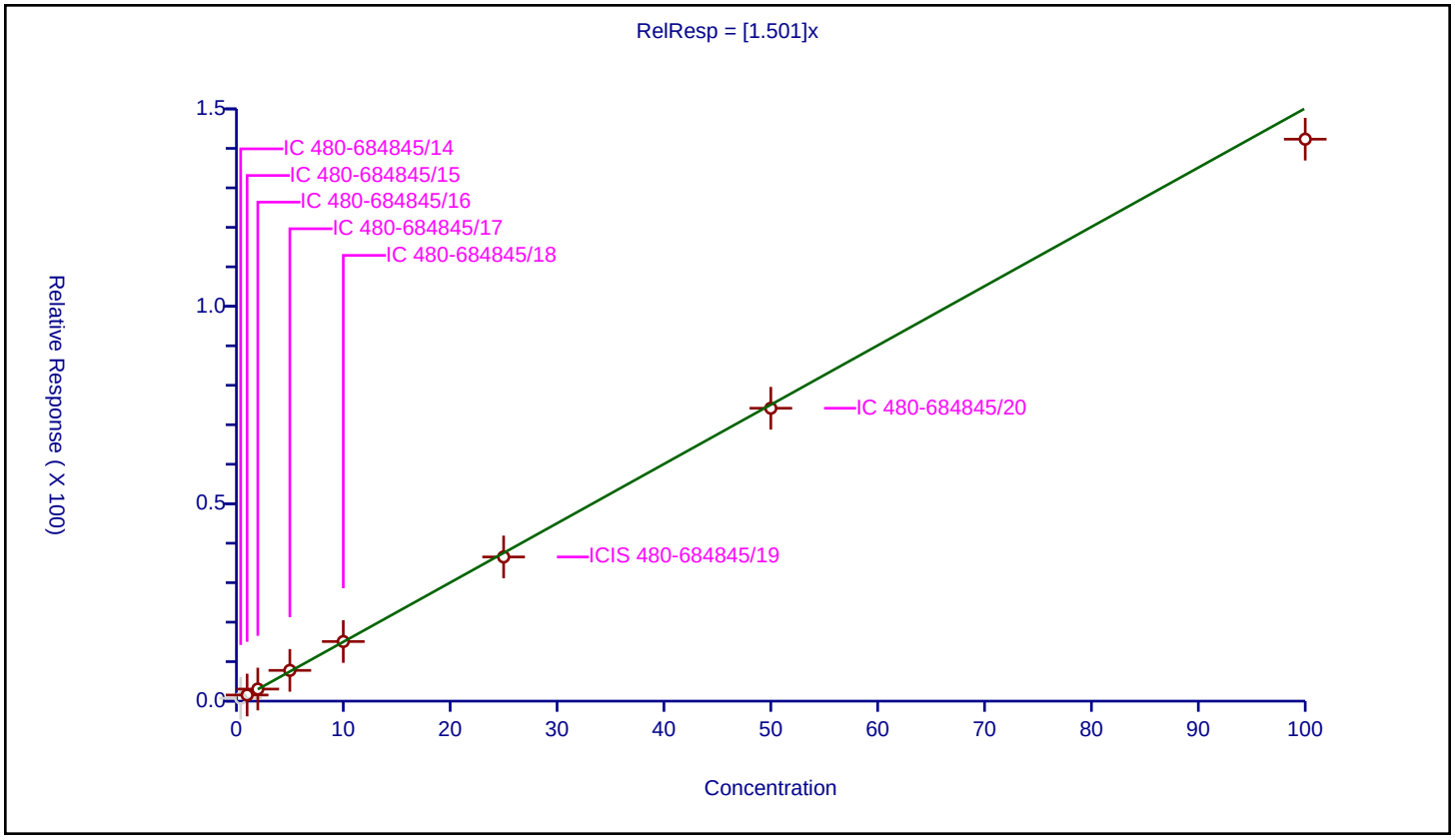
Curve Coefficients

Intercept:	0
Slope:	1.501

Error Coefficients

Standard Error:	354000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.736284	25.0	151572.0	1.840709	N
2	IC 480-684845/15	1.0	1.545025	25.0	145030.0	1.545025	Y
3	IC 480-684845/16	2.0	3.05886	25.0	147367.0	1.52943	Y
4	IC 480-684845/17	5.0	7.789046	25.0	140367.0	1.557809	Y
5	IC 480-684845/18	10.0	15.099608	25.0	133573.0	1.509961	Y
6	ICIS 480-684845/19	25.0	36.518161	25.0	134136.0	1.460726	Y
7	IC 480-684845/20	50.0	74.186213	25.0	128627.0	1.483724	Y
8	IC 480-684845/21	100.0	142.330152	25.0	131176.0	1.423302	Y



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Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

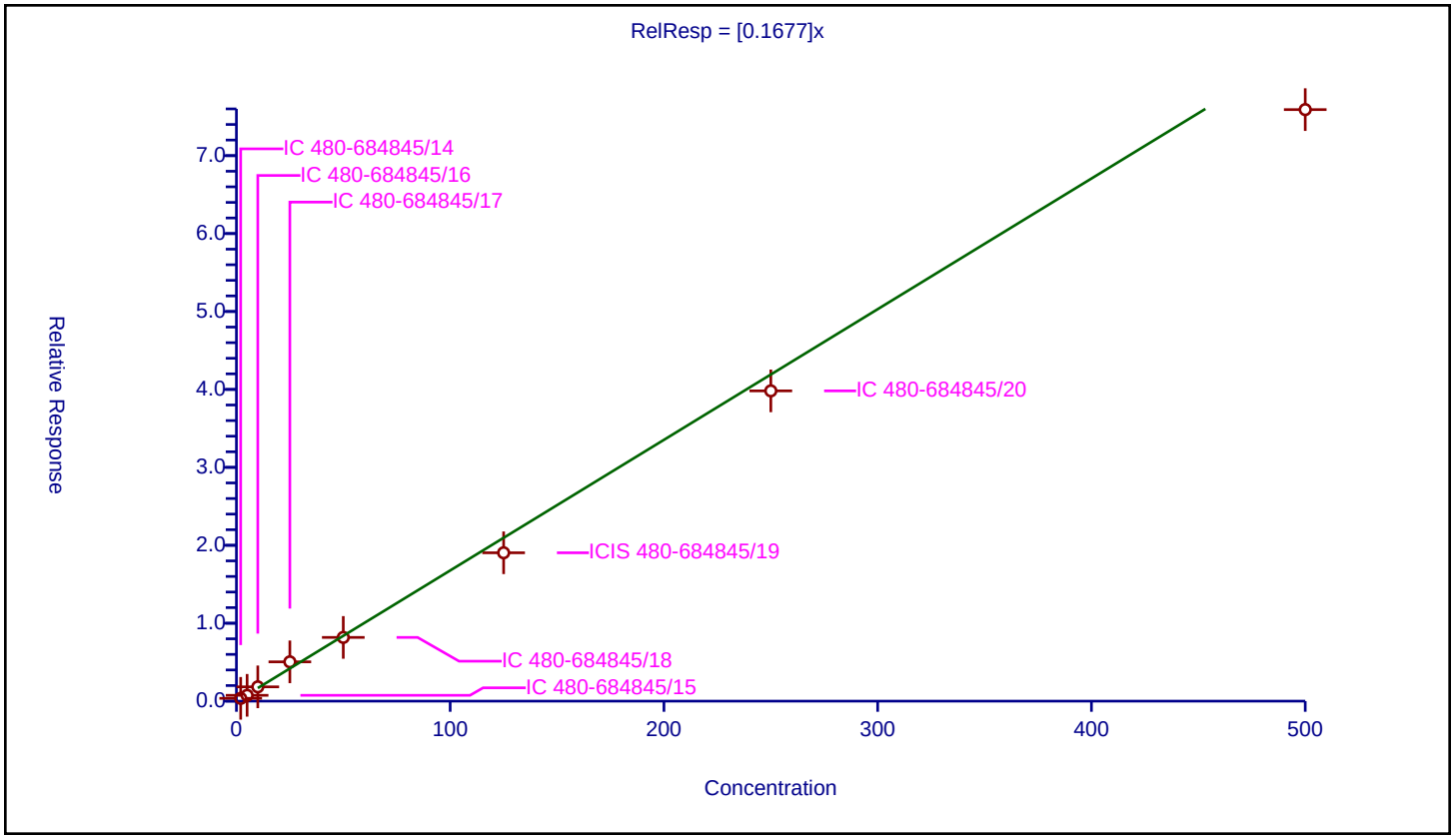
Curve Coefficients

Intercept:	0
Slope:	0.1677

Error Coefficients

Standard Error:	175000
Relative Standard Error:	11.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	2.0	0.36006	25.0	151572.0	0.18003	Y
2	IC 480-684845/15	5.0	0.746225	25.0	145030.0	0.149245	Y
3	IC 480-684845/16	10.0	1.833348	25.0	147367.0	0.183335	Y
4	IC 480-684845/17	25.0	5.043742	25.0	140367.0	0.20175	Y
5	IC 480-684845/18	50.0	8.177364	25.0	133573.0	0.163547	Y
6	ICIS 480-684845/19	125.0	19.037395	25.0	134136.0	0.152299	Y
7	IC 480-684845/20	250.0	39.815124	25.0	128627.0	0.15926	Y
8	IC 480-684845/21	500.0	75.906606	25.0	131176.0	0.151813	Y



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Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

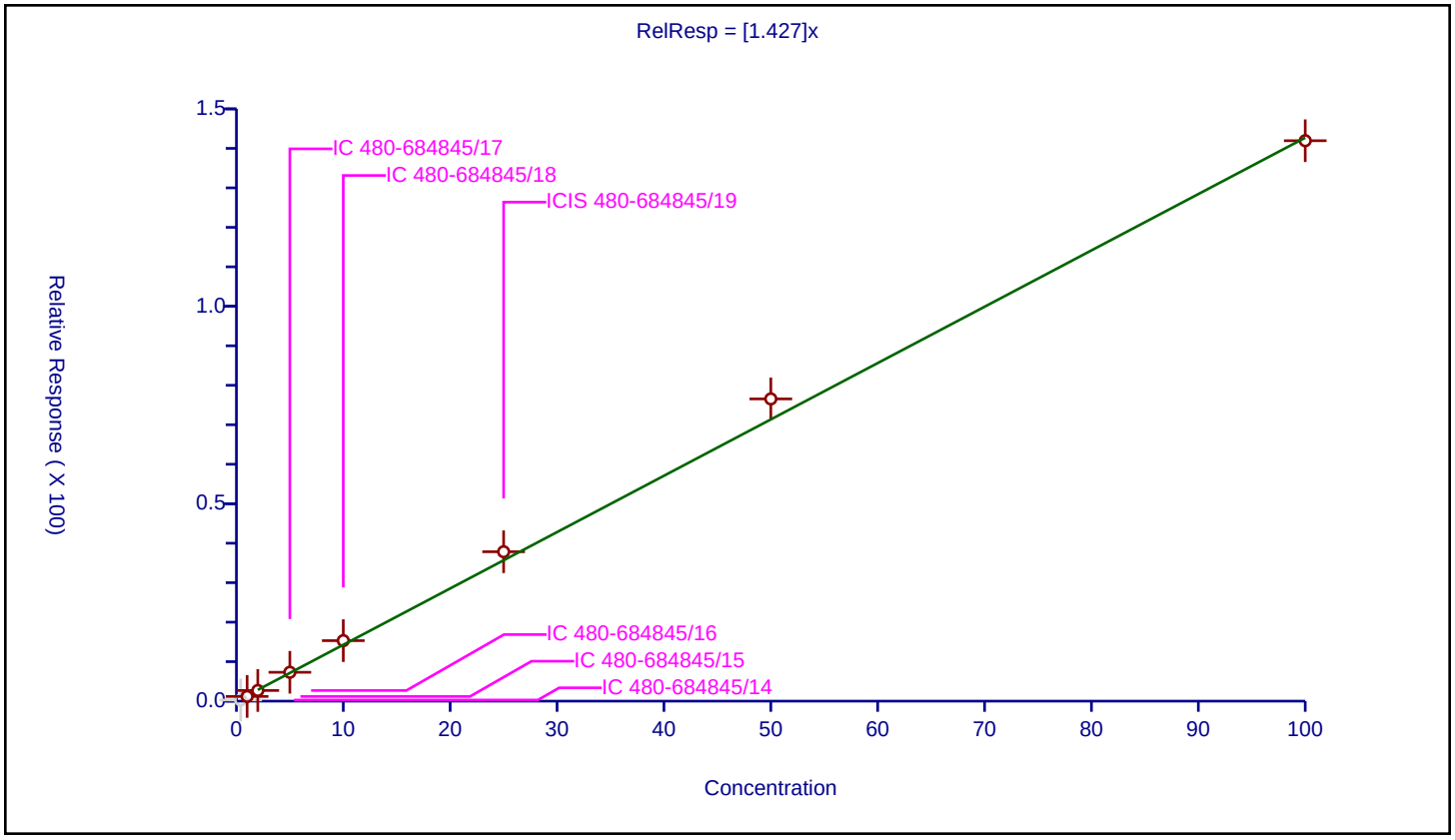
Curve Coefficients

Intercept:	0
Slope:	1.427

Error Coefficients

Standard Error:	356000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.287157	25.0	151572.0	0.717893	N
2	IC 480-684845/15	1.0	1.181824	25.0	145030.0	1.181824	Y
3	IC 480-684845/16	2.0	2.697008	25.0	147367.0	1.348504	Y
4	IC 480-684845/17	5.0	7.311548	25.0	140367.0	1.46231	Y
5	IC 480-684845/18	10.0	15.323456	25.0	133573.0	1.532346	Y
6	ICIS 480-684845/19	25.0	37.836599	25.0	134136.0	1.513464	Y
7	IC 480-684845/20	50.0	76.54847	25.0	128627.0	1.530969	Y
8	IC 480-684845/21	100.0	141.938312	25.0	131176.0	1.419383	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

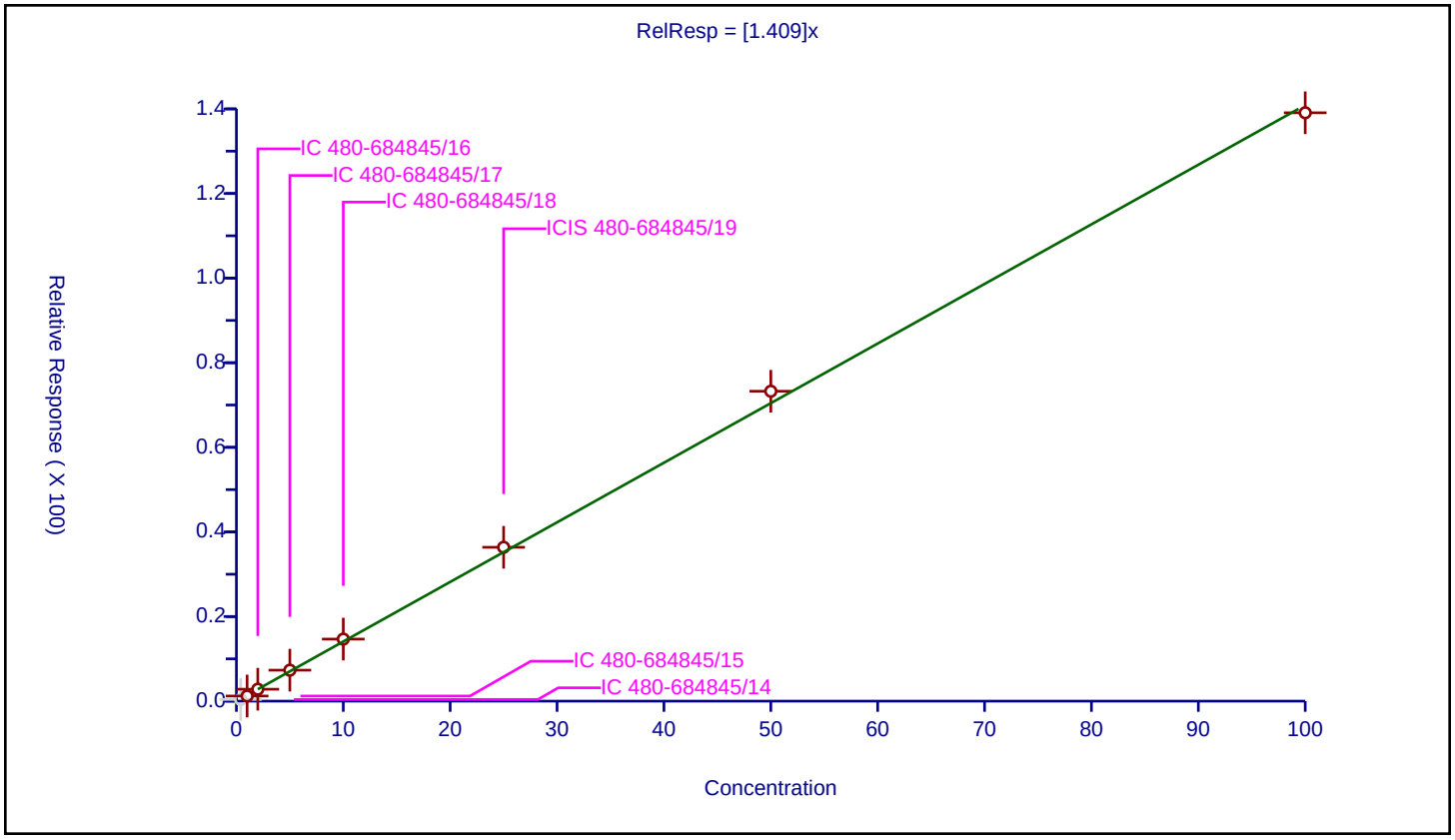
Curve Coefficients

Intercept:	0
Slope:	1.409

Error Coefficients

Standard Error:	347000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.397996	25.0	151572.0	0.994989	N
2	IC 480-684845/15	1.0	1.210956	25.0	145030.0	1.210956	Y
3	IC 480-684845/16	2.0	2.818813	25.0	147367.0	1.409406	Y
4	IC 480-684845/17	5.0	7.321878	25.0	140367.0	1.464376	Y
5	IC 480-684845/18	10.0	14.66333	25.0	133573.0	1.466333	Y
6	ICIS 480-684845/19	25.0	36.367381	25.0	134136.0	1.454695	Y
7	IC 480-684845/20	50.0	73.259502	25.0	128627.0	1.46519	Y
8	IC 480-684845/21	100.0	139.082416	25.0	131176.0	1.390824	Y



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Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

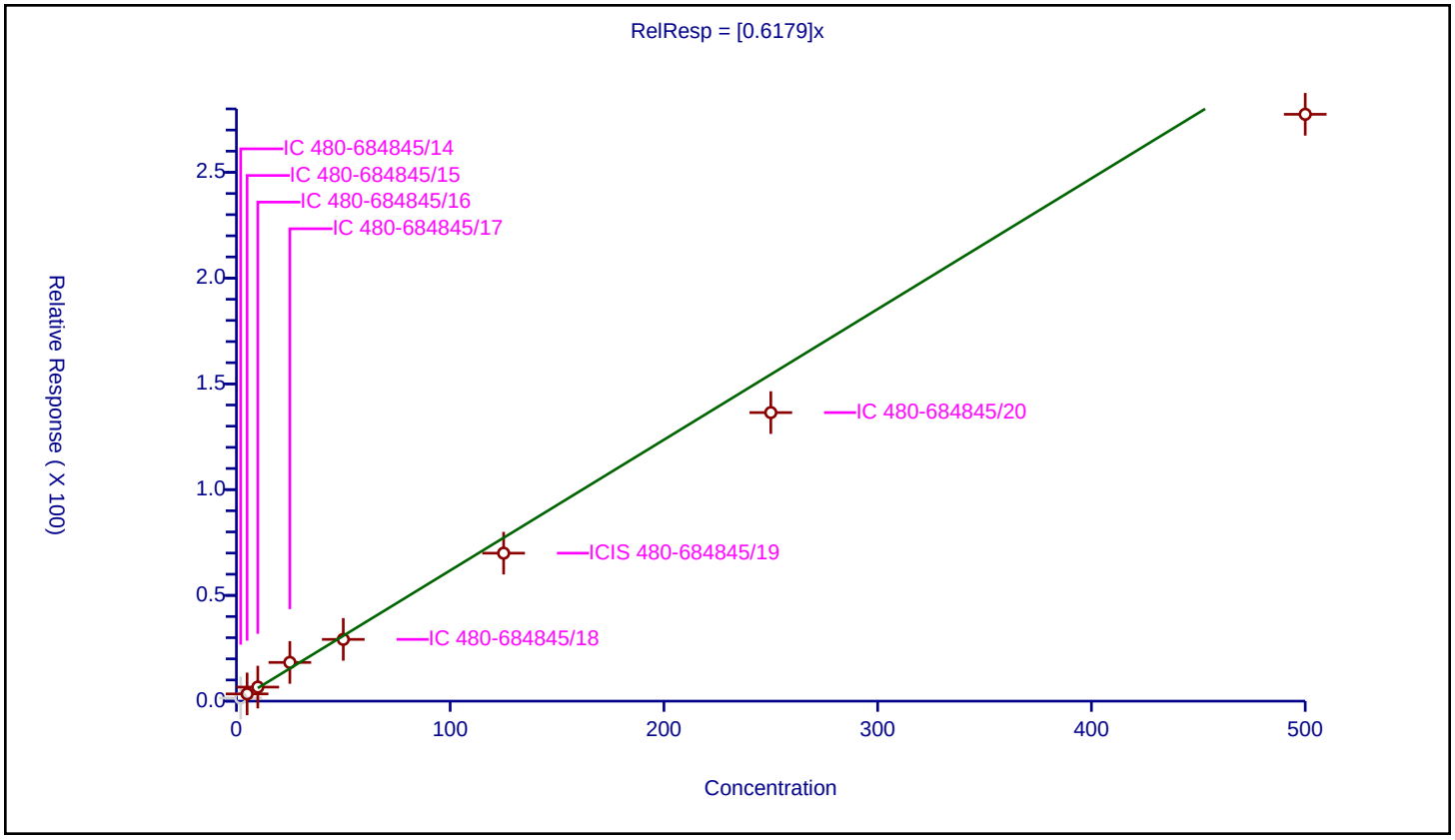
Curve Coefficients

Intercept:	0
Slope:	0.6179

Error Coefficients

Standard Error:	682000
Relative Standard Error:	12.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	2.0	1.479825	25.0	151572.0	0.739912	N
2	IC 480-684845/15	5.0	3.420499	25.0	145030.0	0.6841	Y
3	IC 480-684845/16	10.0	6.643618	25.0	147367.0	0.664362	Y
4	IC 480-684845/17	25.0	18.308256	25.0	140367.0	0.73233	Y
5	IC 480-684845/18	50.0	29.196769	25.0	133573.0	0.583935	Y
6	ICIS 480-684845/19	125.0	69.958102	25.0	134136.0	0.559665	Y
7	IC 480-684845/20	250.0	136.423729	25.0	128627.0	0.545695	Y
8	IC 480-684845/21	500.0	277.449572	25.0	131176.0	0.554899	Y



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Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

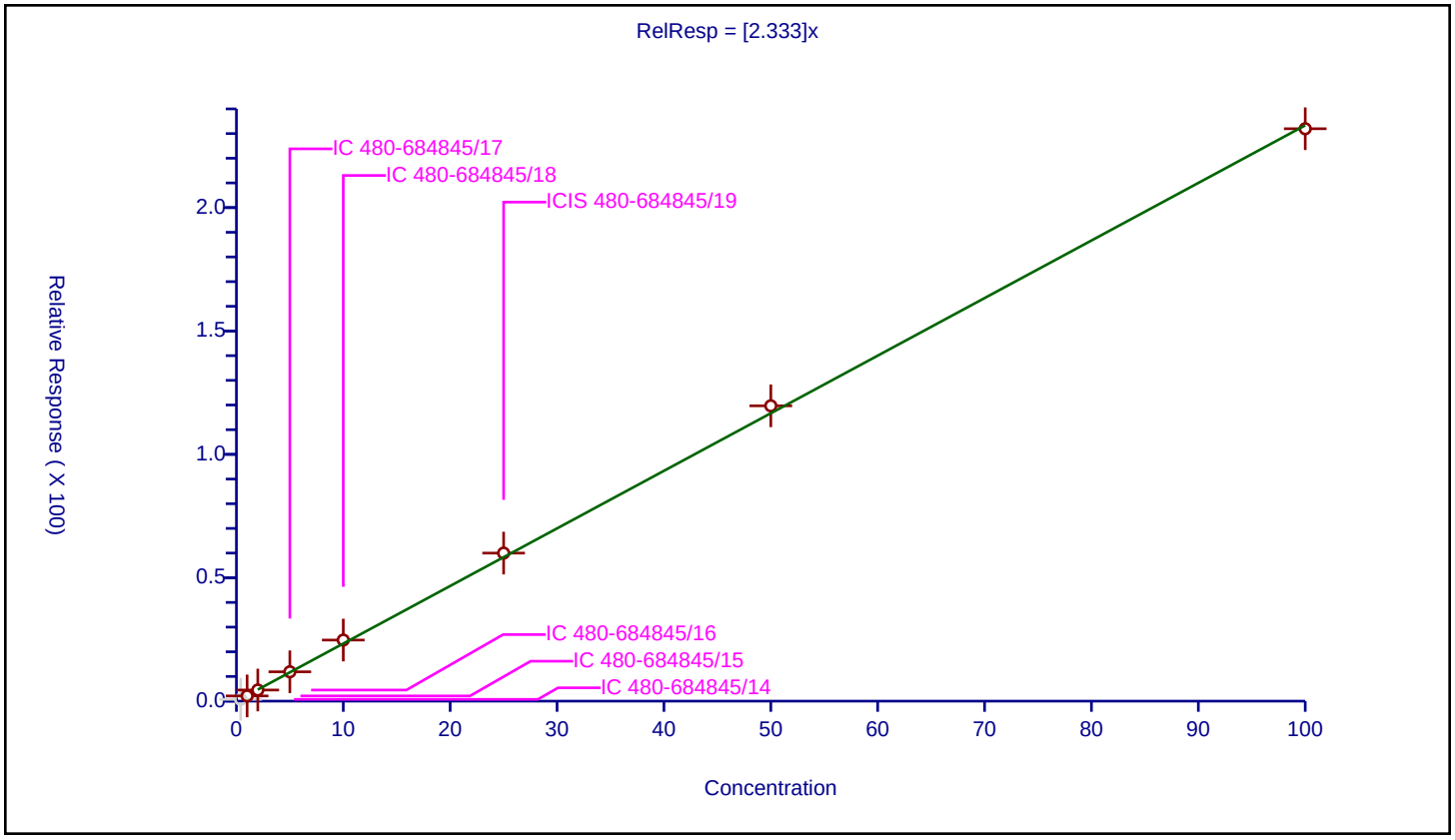
Curve Coefficients

Intercept:	0
Slope:	2.333

Error Coefficients

Standard Error:	575000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.726552	25.0	151572.0	1.816381	N
2	IC 480-684845/15	1.0	2.113011	25.0	145030.0	2.113011	Y
3	IC 480-684845/16	2.0	4.505758	25.0	147367.0	2.252879	Y
4	IC 480-684845/17	5.0	11.891328	25.0	140367.0	2.378266	Y
5	IC 480-684845/18	10.0	24.757623	25.0	133573.0	2.475762	Y
6	ICIS 480-684845/19	25.0	59.997875	25.0	134136.0	2.399915	Y
7	IC 480-684845/20	50.0	119.676273	25.0	128627.0	2.393525	Y
8	IC 480-684845/21	100.0	231.958018	25.0	131176.0	2.31958	Y



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Calibration / Carbon disulfide

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

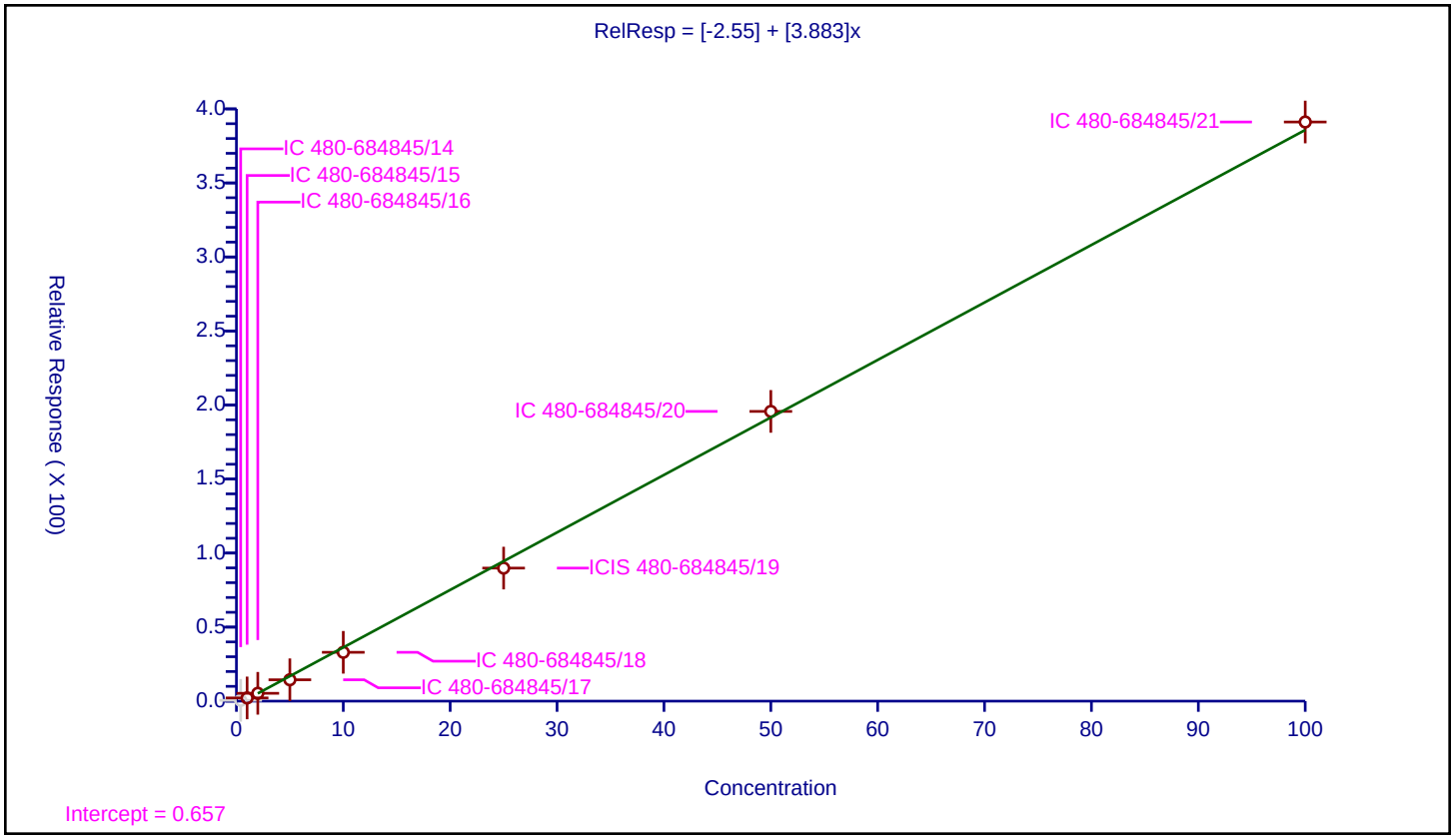
Curve Coefficients

Intercept:	-2.55
Slope:	3.883

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.556006	25.0	151572.0	1.390016	N
2	IC 480-684845/15	1.0	2.161277	25.0	145030.0	2.161277	Y
3	IC 480-684845/16	2.0	5.290703	25.0	147367.0	2.645351	Y
4	IC 480-684845/17	5.0	14.444456	25.0	140367.0	2.888891	Y
5	IC 480-684845/18	10.0	32.980842	25.0	133573.0	3.298084	Y
6	ICIS 480-684845/19	25.0	89.865137	25.0	134136.0	3.594605	Y
7	IC 480-684845/20	50.0	195.68928	25.0	128627.0	3.913786	Y
8	IC 480-684845/21	100.0	391.147009	25.0	131176.0	3.91147	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

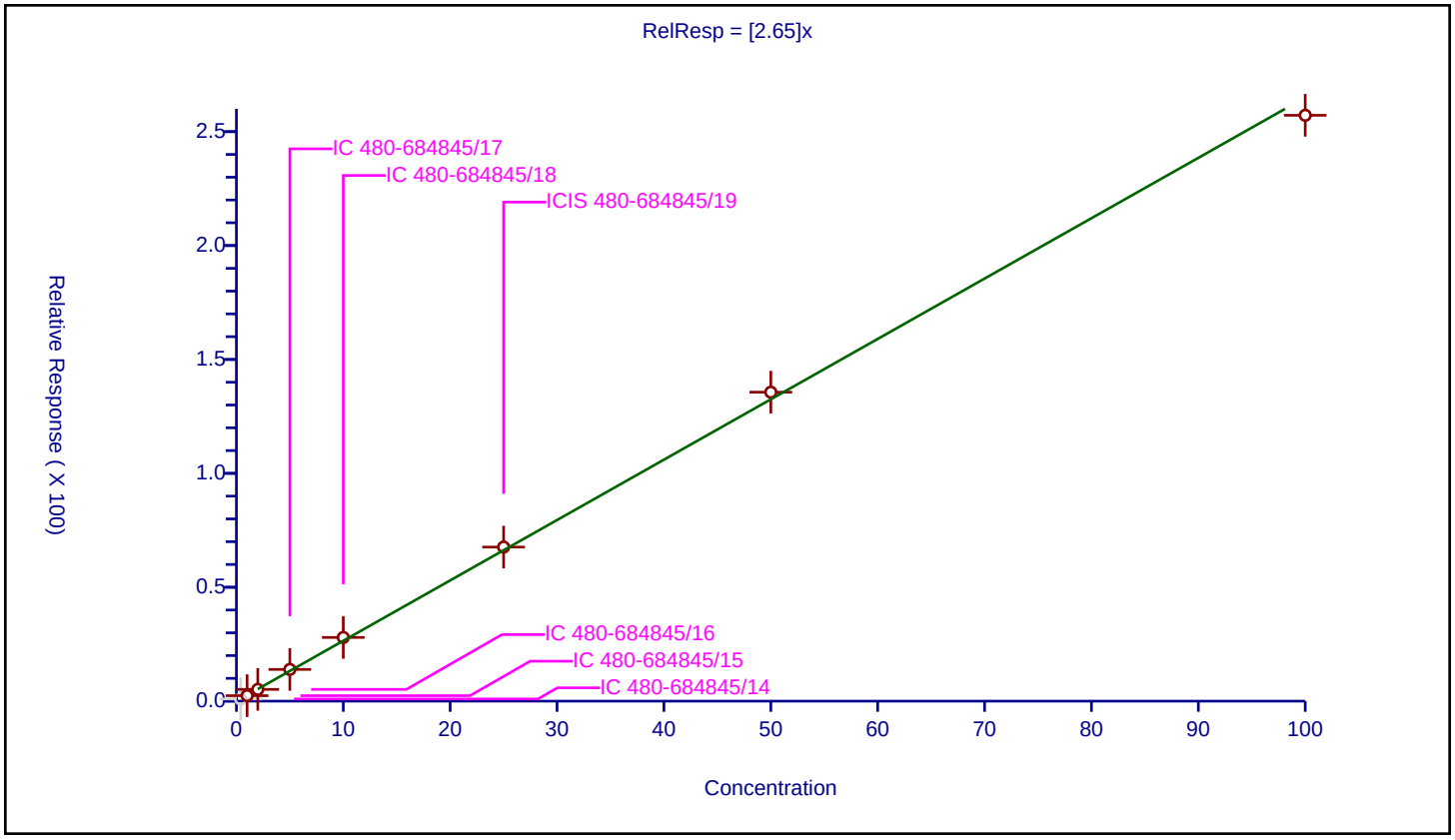
Curve Coefficients

Intercept:	0
Slope:	2.65

Error Coefficients

Standard Error:	641000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.951693	25.0	151572.0	2.379232	N
2	IC 480-684845/15	1.0	2.398986	25.0	145030.0	2.398986	Y
3	IC 480-684845/16	2.0	5.162282	25.0	147367.0	2.581141	Y
4	IC 480-684845/17	5.0	13.91887	25.0	140367.0	2.783774	Y
5	IC 480-684845/18	10.0	27.965045	25.0	133573.0	2.796505	Y
6	ICIS 480-684845/19	25.0	67.631546	25.0	134136.0	2.705262	Y
7	IC 480-684845/20	50.0	135.634431	25.0	128627.0	2.712689	Y
8	IC 480-684845/21	100.0	257.1871	25.0	131176.0	2.571871	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

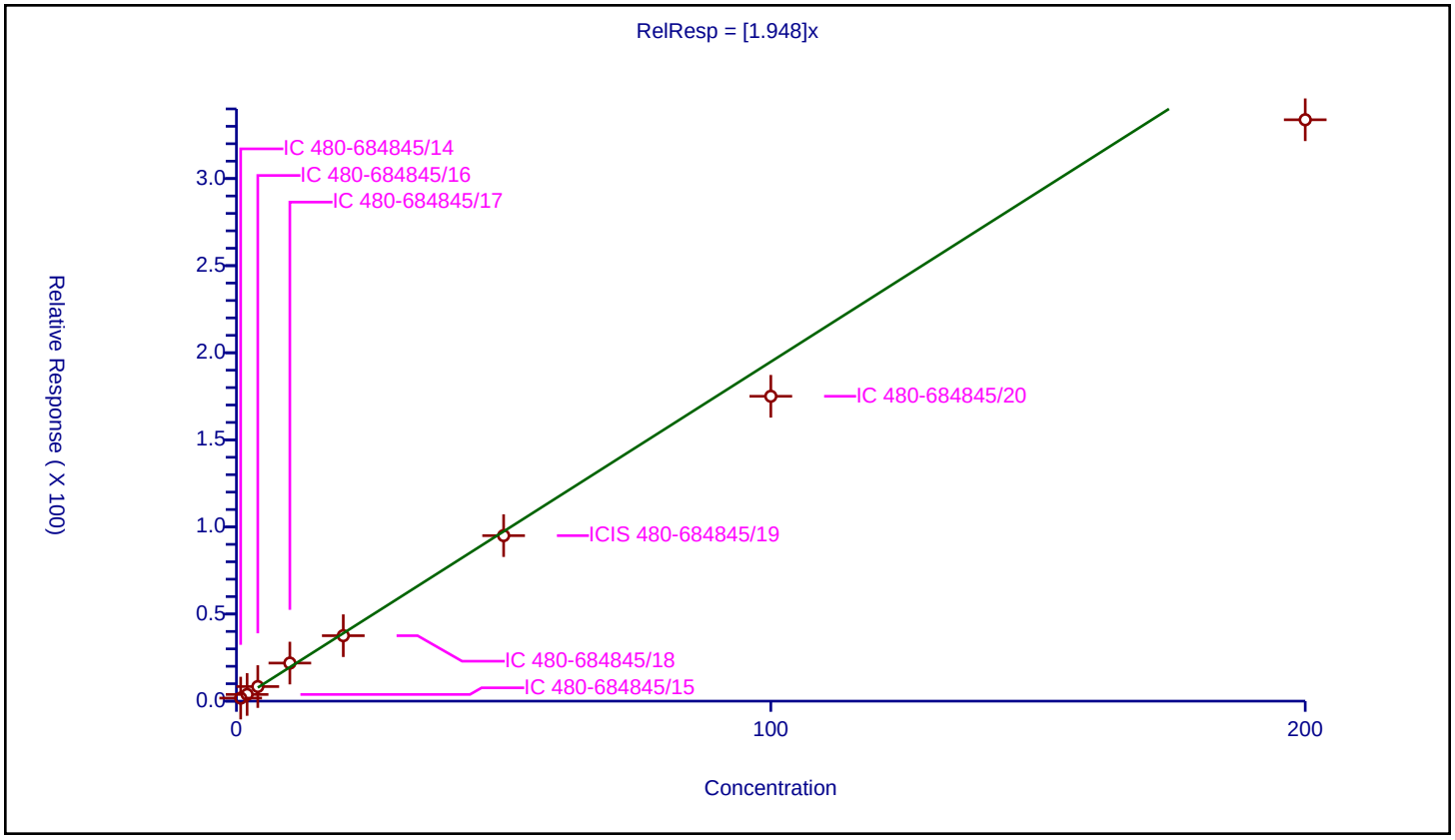
Curve Coefficients

Intercept:	0
Slope:	1.948

Error Coefficients

Standard Error:	774000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.8	1.752632	25.0	151572.0	2.190791	Y
2	IC 480-684845/15	2.0	3.841274	25.0	145030.0	1.920637	Y
3	IC 480-684845/16	4.0	8.364322	25.0	147367.0	2.09108	Y
4	IC 480-684845/17	10.0	21.853071	25.0	140367.0	2.185307	Y
5	IC 480-684845/18	20.0	37.58151	25.0	133573.0	1.879075	Y
6	ICIS 480-684845/19	50.0	95.022403	25.0	134136.0	1.900448	Y
7	IC 480-684845/20	100.0	175.023712	25.0	128627.0	1.750237	Y
8	IC 480-684845/21	200.0	333.763036	25.0	131176.0	1.668815	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

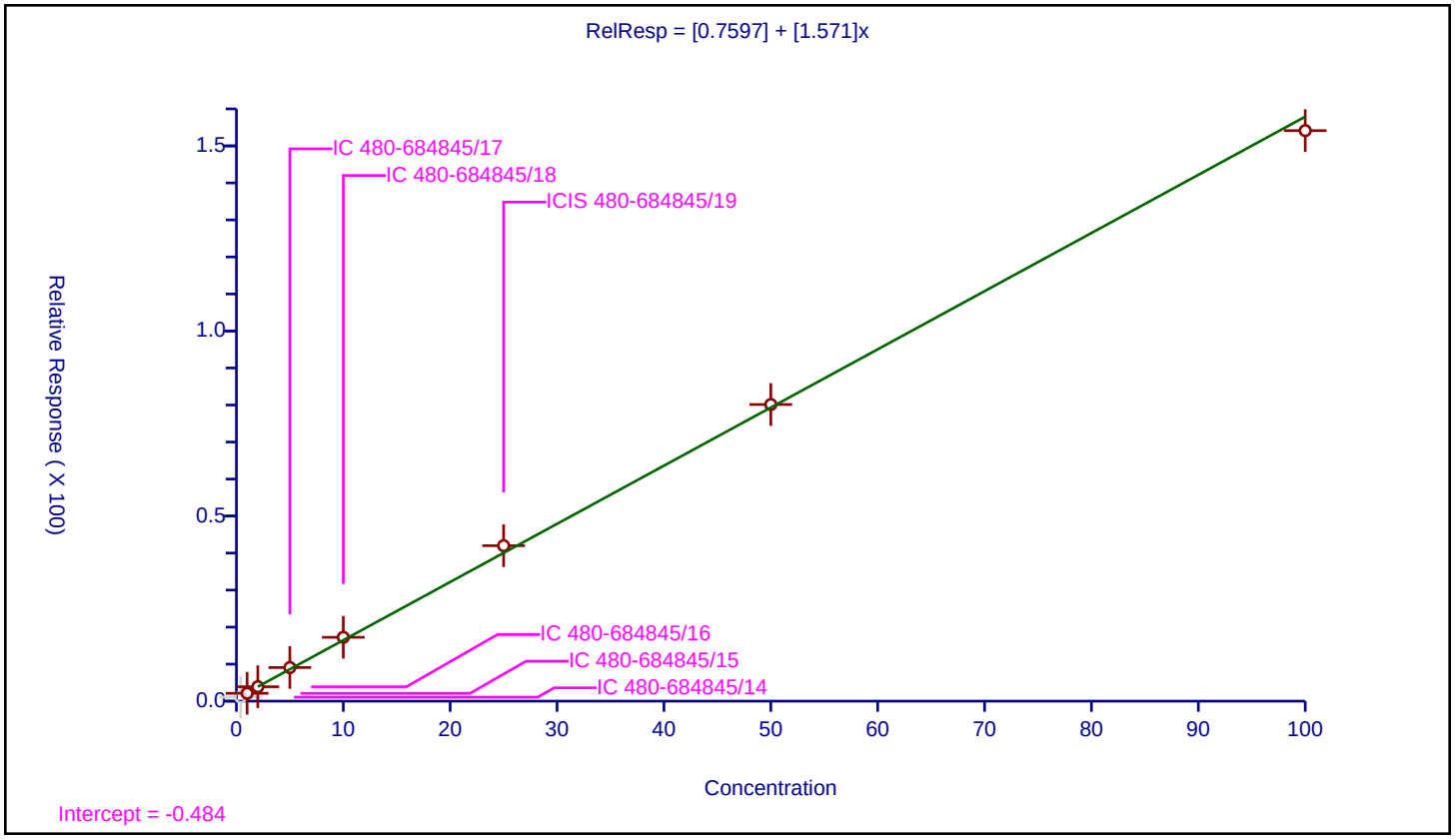
Curve Coefficients

Intercept:	0.7597
Slope:	1.571

Error Coefficients

Standard Error:	421000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	1.09288	25.0	151572.0	2.7322	N
2	IC 480-684845/15	1.0	2.113011	25.0	145030.0	2.113011	Y
3	IC 480-684845/16	2.0	3.885877	25.0	147367.0	1.942938	Y
4	IC 480-684845/17	5.0	9.080126	25.0	140367.0	1.816025	Y
5	IC 480-684845/18	10.0	17.240573	25.0	133573.0	1.724057	Y
6	ICIS 480-684845/19	25.0	41.998606	25.0	134136.0	1.679944	Y
7	IC 480-684845/20	50.0	80.141805	25.0	128627.0	1.602836	Y
8	IC 480-684845/21	100.0	154.125945	25.0	131176.0	1.541259	Y



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Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

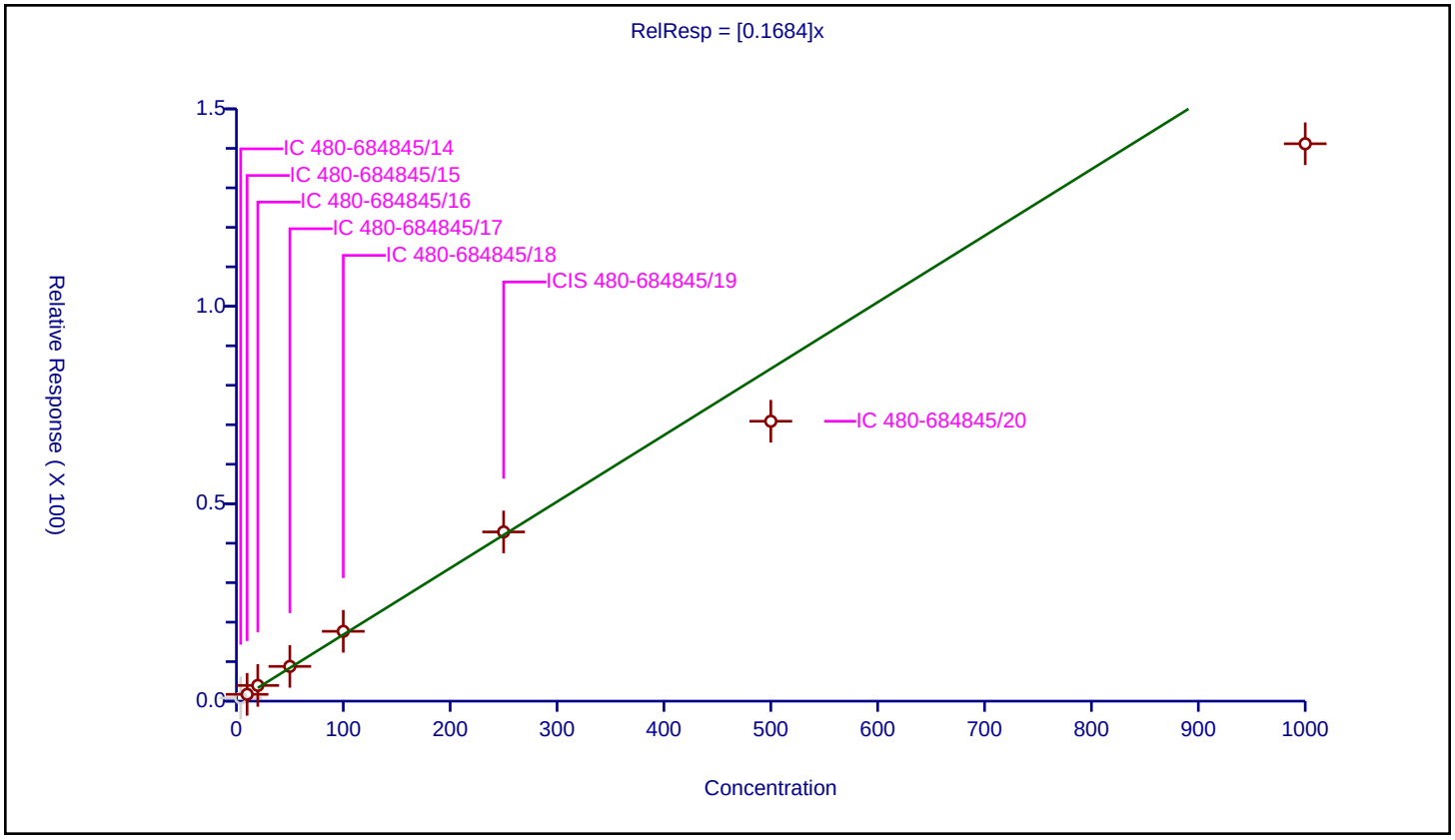
Curve Coefficients

Intercept:	0
Slope:	0.1684

Error Coefficients

Standard Error:	353000
Relative Standard Error:	12.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	4.0	0.804898	25.0	151572.0	0.201225	N
2	IC 480-684845/15	10.0	1.726195	25.0	145030.0	0.172619	Y
3	IC 480-684845/16	20.0	3.976976	25.0	147367.0	0.198849	Y
4	IC 480-684845/17	50.0	8.797296	25.0	140367.0	0.175946	Y
5	IC 480-684845/18	100.0	17.686771	25.0	133573.0	0.176868	Y
6	ICIS 480-684845/19	250.0	42.857063	25.0	134136.0	0.171428	Y
7	IC 480-684845/20	500.0	70.894136	25.0	128627.0	0.141788	Y
8	IC 480-684845/21	1000.0	141.171213	25.0	131176.0	0.141171	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

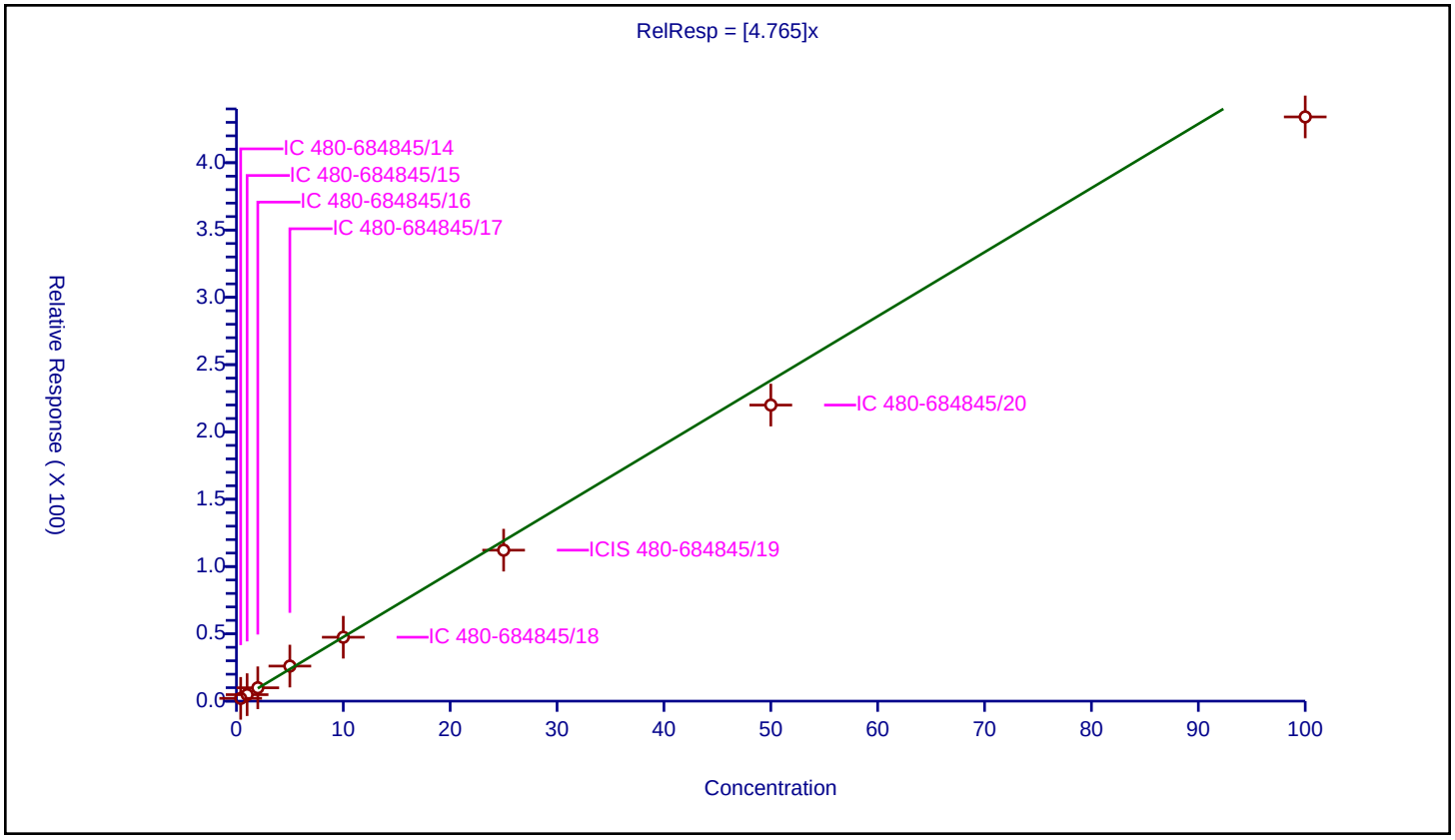
Curve Coefficients

Intercept:	0
Slope:	4.765

Error Coefficients

Standard Error:	994000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	2.059747	25.0	151572.0	5.149368	Y
2	IC 480-684845/15	1.0	4.820554	25.0	145030.0	4.820554	Y
3	IC 480-684845/16	2.0	9.929462	25.0	147367.0	4.964731	Y
4	IC 480-684845/17	5.0	26.050817	25.0	140367.0	5.210163	Y
5	IC 480-684845/18	10.0	47.479094	25.0	133573.0	4.747909	Y
6	ICIS 480-684845/19	25.0	112.155387	25.0	134136.0	4.486215	Y
7	IC 480-684845/20	50.0	219.969563	25.0	128627.0	4.399391	Y
8	IC 480-684845/21	100.0	434.04853	25.0	131176.0	4.340485	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

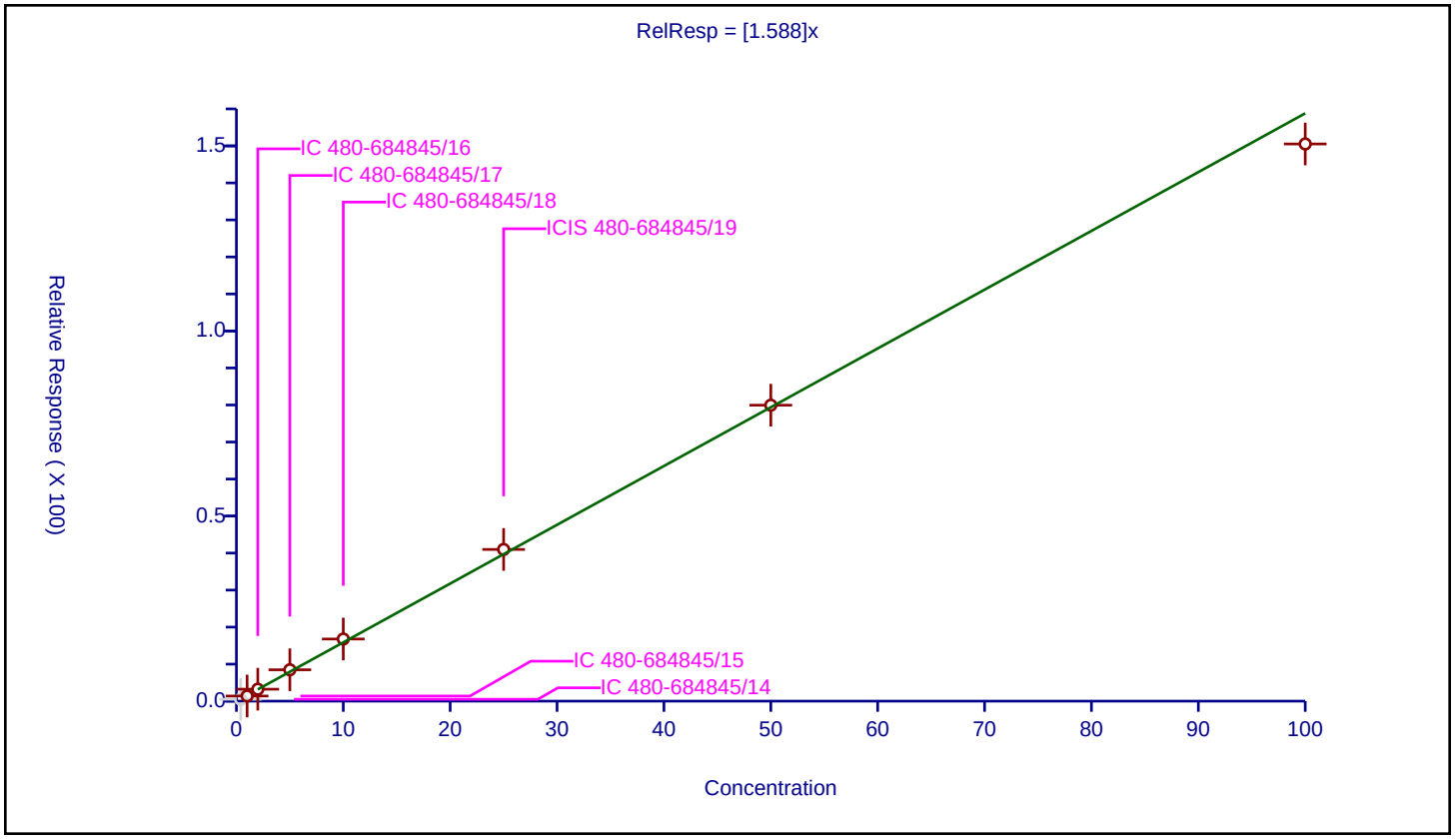
Curve Coefficients

Intercept:	0
Slope:	1.588

Error Coefficients

Standard Error:	377000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.5057	25.0	151572.0	1.264251	N
2	IC 480-684845/15	1.0	1.387127	25.0	145030.0	1.387127	Y
3	IC 480-684845/16	2.0	3.224433	25.0	147367.0	1.612216	Y
4	IC 480-684845/17	5.0	8.473324	25.0	140367.0	1.694665	Y
5	IC 480-684845/18	10.0	16.781273	25.0	133573.0	1.678127	Y
6	ICIS 480-684845/19	25.0	40.980423	25.0	134136.0	1.639217	Y
7	IC 480-684845/20	50.0	79.954831	25.0	128627.0	1.599097	Y
8	IC 480-684845/21	100.0	150.52258	25.0	131176.0	1.505226	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

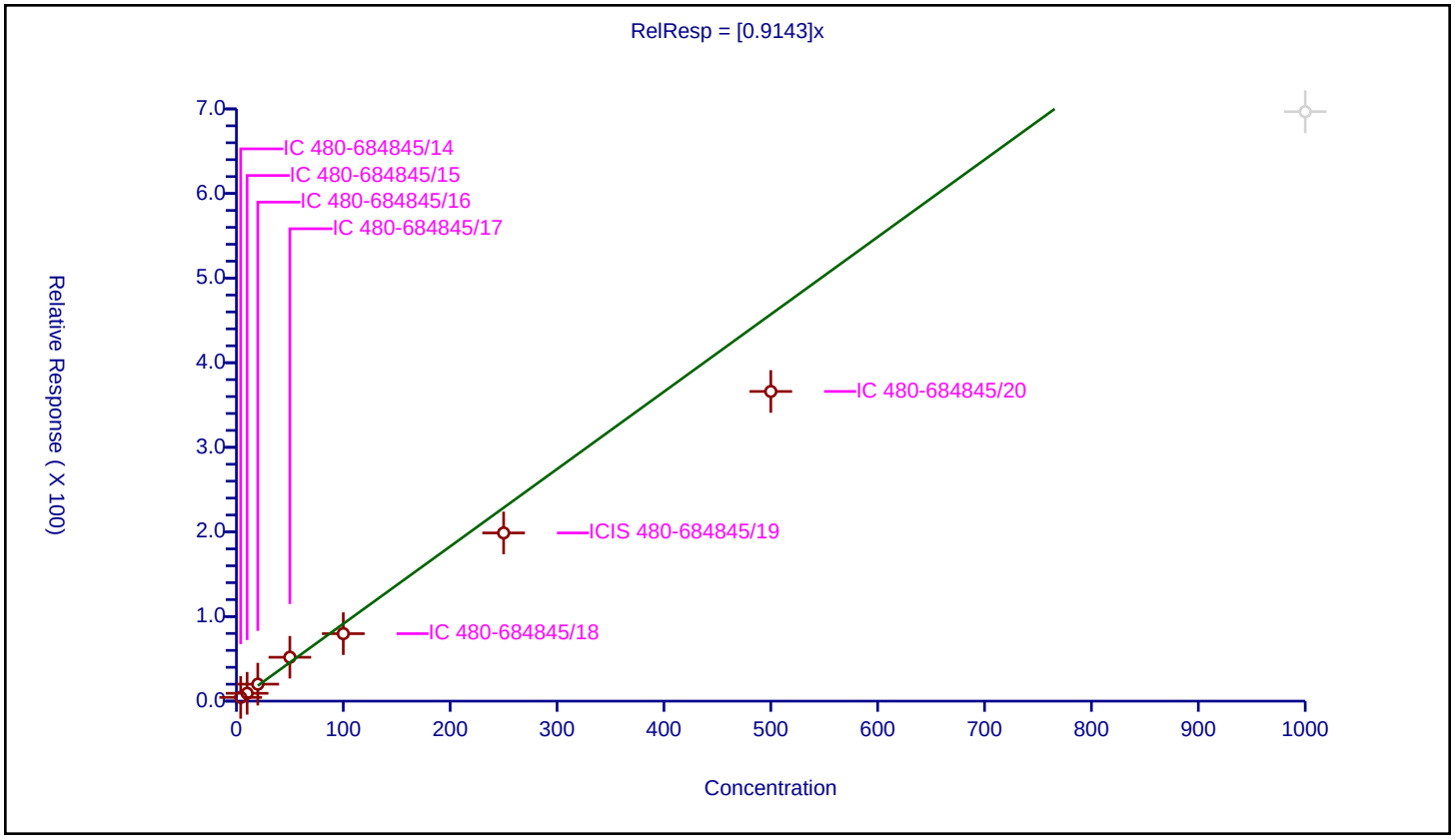
Curve Coefficients

Intercept:	0
Slope:	0.9143

Error Coefficients

Standard Error:	910000
Relative Standard Error:	15.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	4.0	4.430898	25.0	151572.0	1.107724	Y
2	IC 480-684845/15	10.0	9.269979	25.0	145030.0	0.926998	Y
3	IC 480-684845/16	20.0	20.058426	25.0	147367.0	1.002921	Y
4	IC 480-684845/17	50.0	51.876331	25.0	140367.0	1.037527	Y
5	IC 480-684845/18	100.0	79.768366	25.0	133573.0	0.797684	Y
6	ICIS 480-684845/19	250.0	198.805503	25.0	134136.0	0.795222	Y
7	IC 480-684845/20	500.0	366.026184	25.0	128627.0	0.732052	Y
8	IC 480-684845/21	1000.0	696.762746	25.0	131176.0	0.696763	N



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

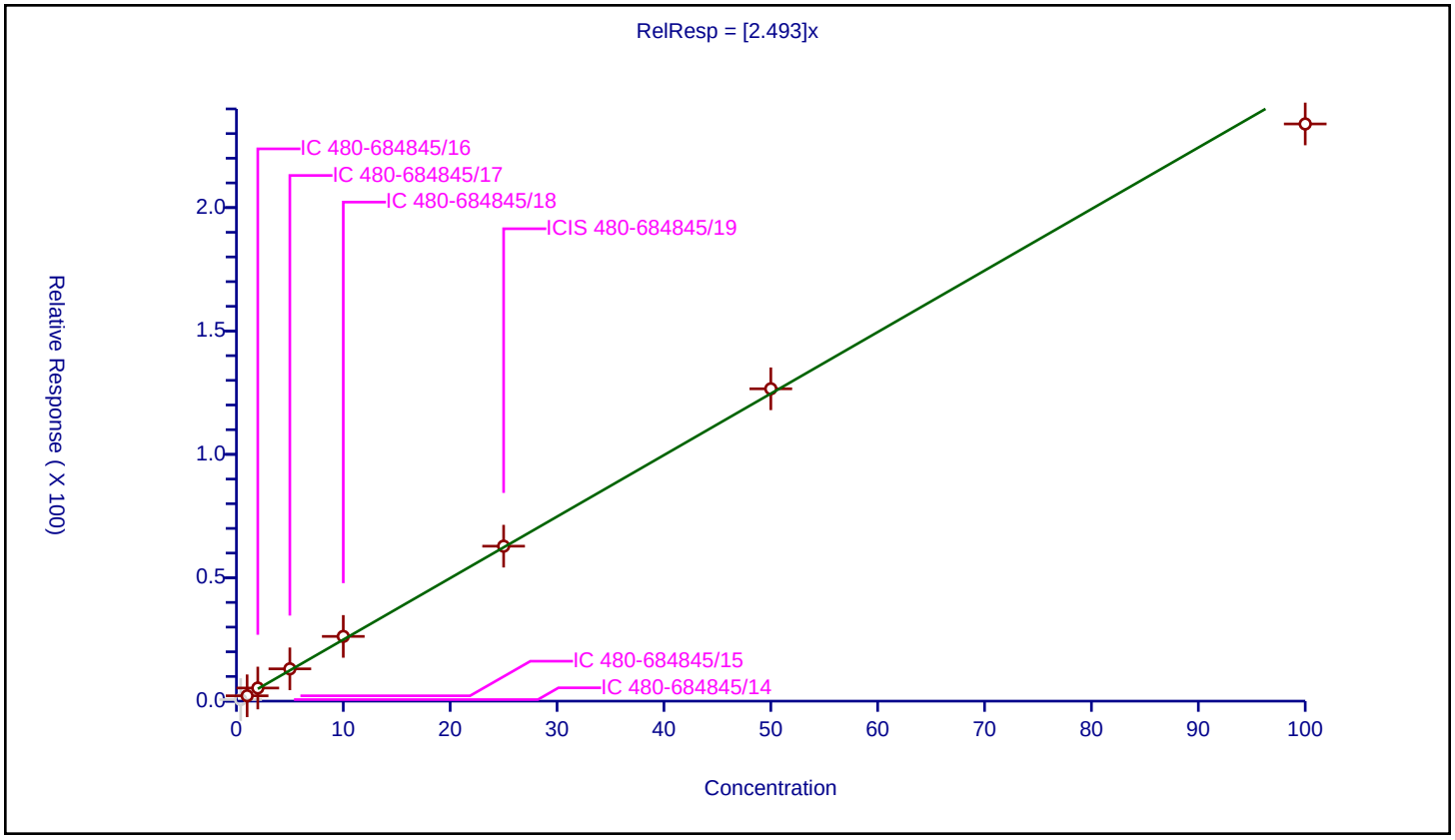
Curve Coefficients

Intercept:	0
Slope:	2.493

Error Coefficients

Standard Error:	587000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.631548	25.0	151572.0	1.57887	N
2	IC 480-684845/15	1.0	2.165069	25.0	145030.0	2.165069	Y
3	IC 480-684845/16	2.0	5.32056	25.0	147367.0	2.66028	Y
4	IC 480-684845/17	5.0	13.0816	25.0	140367.0	2.61632	Y
5	IC 480-684845/18	10.0	26.236777	25.0	133573.0	2.623678	Y
6	ICIS 480-684845/19	25.0	62.796155	25.0	134136.0	2.511846	Y
7	IC 480-684845/20	50.0	126.579179	25.0	128627.0	2.531584	Y
8	IC 480-684845/21	100.0	233.905783	25.0	131176.0	2.339058	Y



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Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

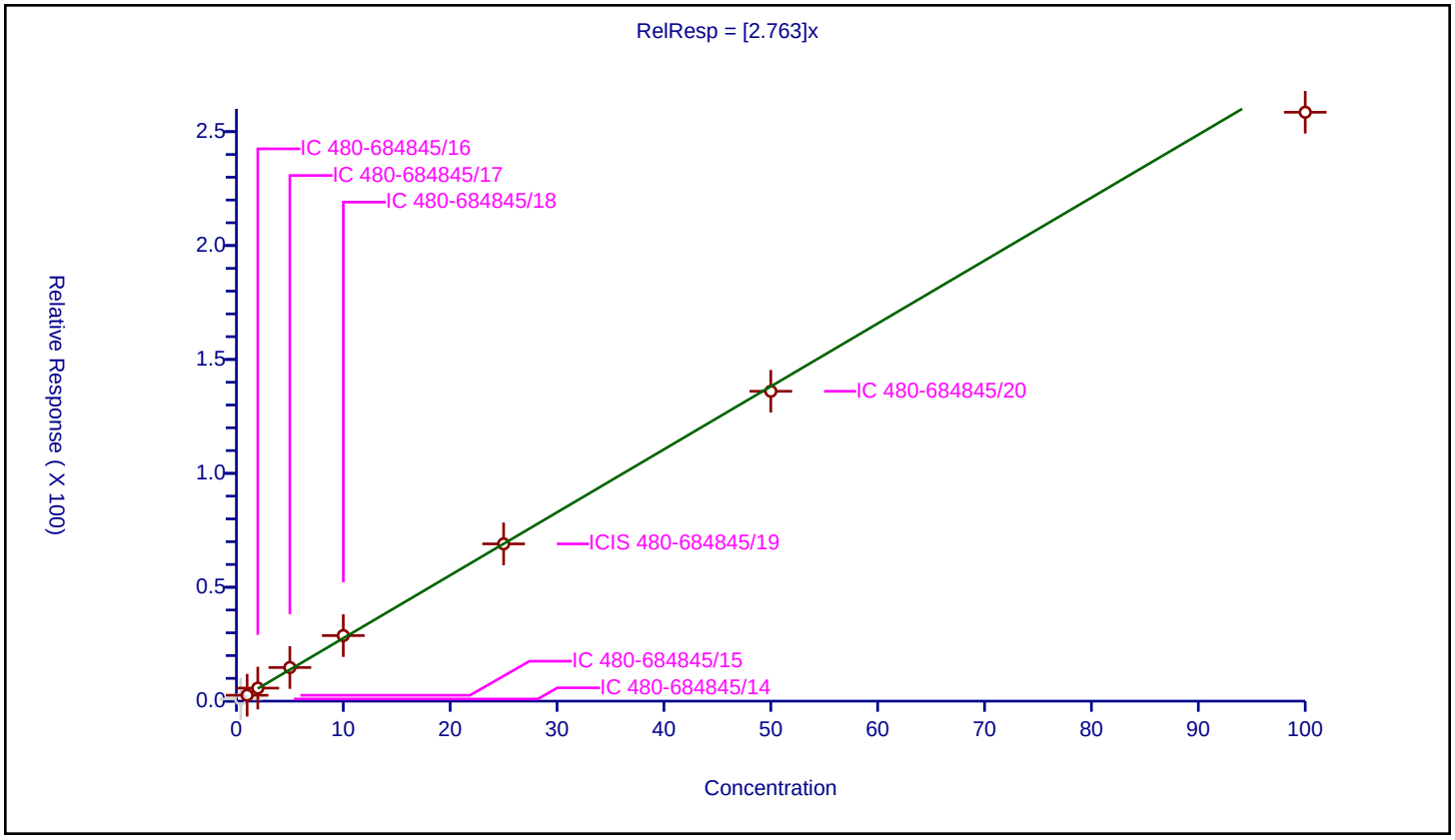
Curve Coefficients

Intercept:	0
Slope:	2.763

Error Coefficients

Standard Error:	645000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.94658	25.0	151572.0	2.36645	N
2	IC 480-684845/15	1.0	2.580156	25.0	145030.0	2.580156	Y
3	IC 480-684845/16	2.0	5.725332	25.0	147367.0	2.862666	Y
4	IC 480-684845/17	5.0	14.767182	25.0	140367.0	2.953436	Y
5	IC 480-684845/18	10.0	28.777148	25.0	133573.0	2.877715	Y
6	ICIS 480-684845/19	25.0	69.035904	25.0	134136.0	2.761436	Y
7	IC 480-684845/20	50.0	136.034425	25.0	128627.0	2.720689	Y
8	IC 480-684845/21	100.0	258.524425	25.0	131176.0	2.585244	Y



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Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

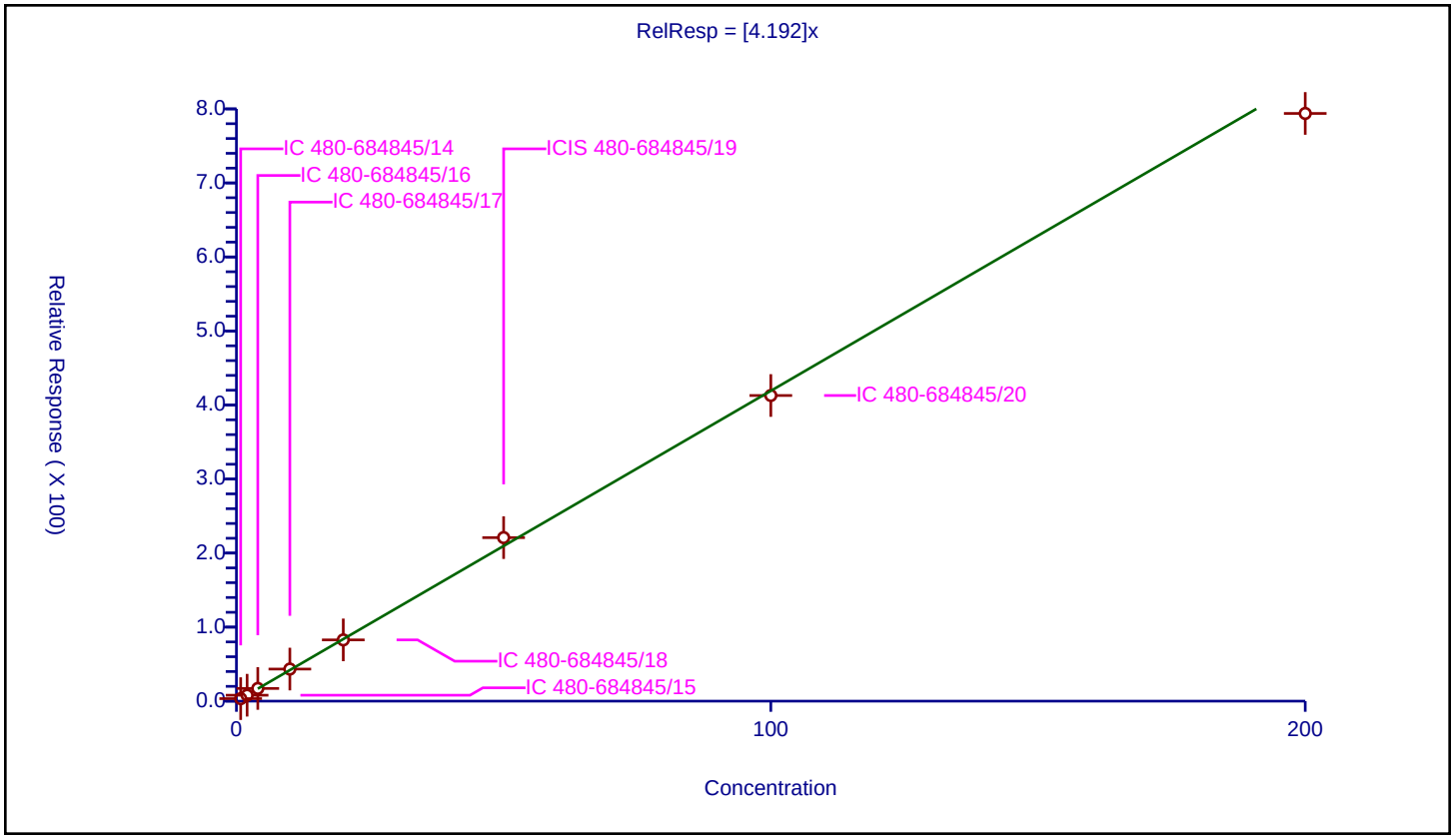
Curve Coefficients

Intercept:	0
Slope:	4.192

Error Coefficients

Standard Error:	1830000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.8	3.400364	25.0	151572.0	4.250455	Y
2	IC 480-684845/15	2.0	8.018169	25.0	145030.0	4.009084	Y
3	IC 480-684845/16	4.0	17.149192	25.0	147367.0	4.287298	Y
4	IC 480-684845/17	10.0	43.345124	25.0	140367.0	4.334512	Y
5	IC 480-684845/18	20.0	82.713198	25.0	133573.0	4.13566	Y
6	ICIS 480-684845/19	50.0	220.891297	25.0	134136.0	4.417826	Y
7	IC 480-684845/20	100.0	412.855582	25.0	128627.0	4.128556	Y
8	IC 480-684845/21	200.0	793.838812	25.0	131176.0	3.969194	Y



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Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

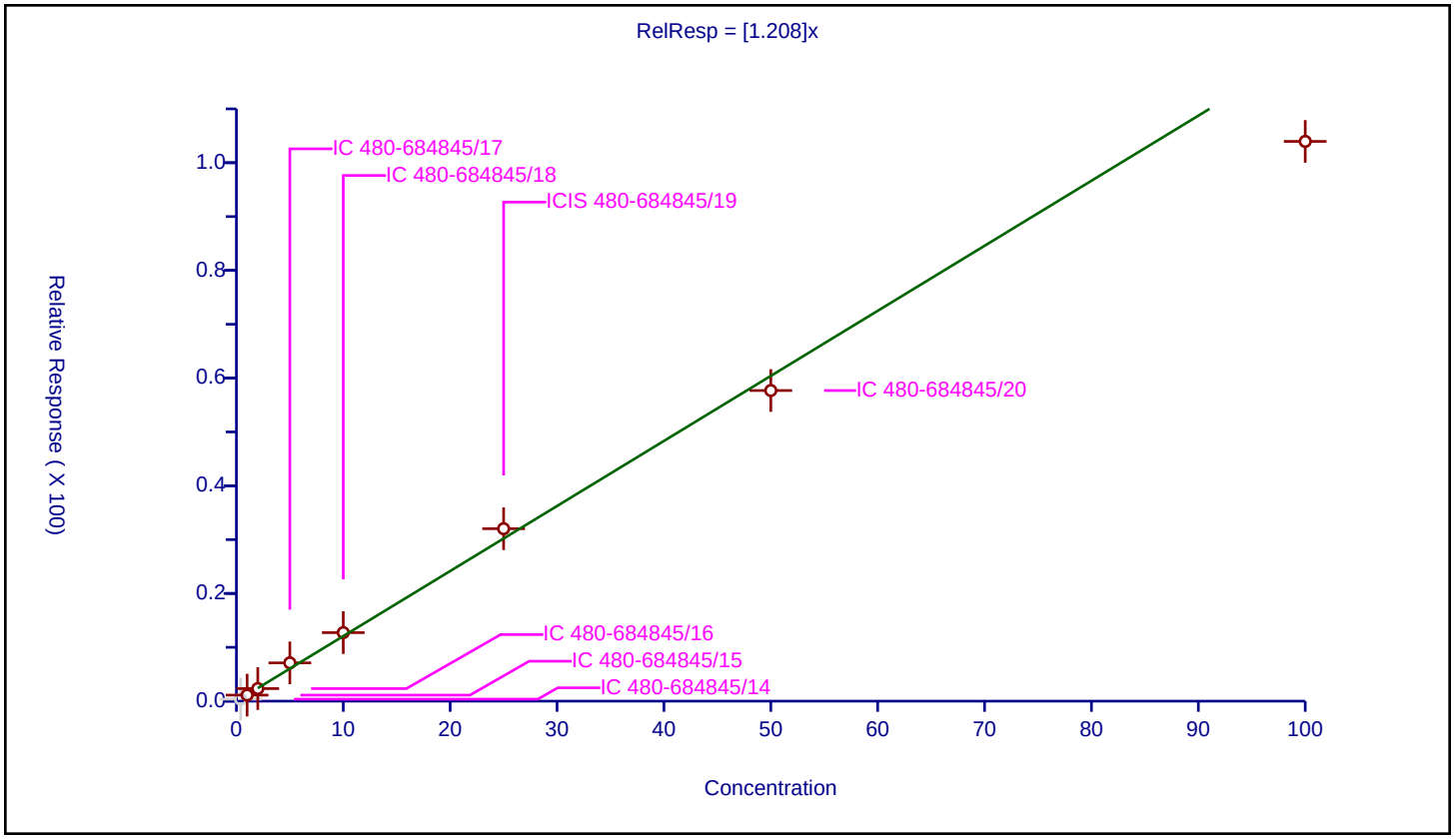
Curve Coefficients

Intercept:	0
Slope:	1.208

Error Coefficients

Standard Error:	265000
Relative Standard Error:	10.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.370781	25.0	151572.0	0.926952	N
2	IC 480-684845/15	1.0	1.122699	25.0	145030.0	1.122699	Y
3	IC 480-684845/16	2.0	2.332442	25.0	147367.0	1.166221	Y
4	IC 480-684845/17	5.0	7.106371	25.0	140367.0	1.421274	Y
5	IC 480-684845/18	10.0	12.725439	25.0	133573.0	1.272544	Y
6	ICIS 480-684845/19	25.0	32.027196	25.0	134136.0	1.281088	Y
7	IC 480-684845/20	50.0	57.690065	25.0	128627.0	1.153801	Y
8	IC 480-684845/21	100.0	103.958803	25.0	131176.0	1.039588	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

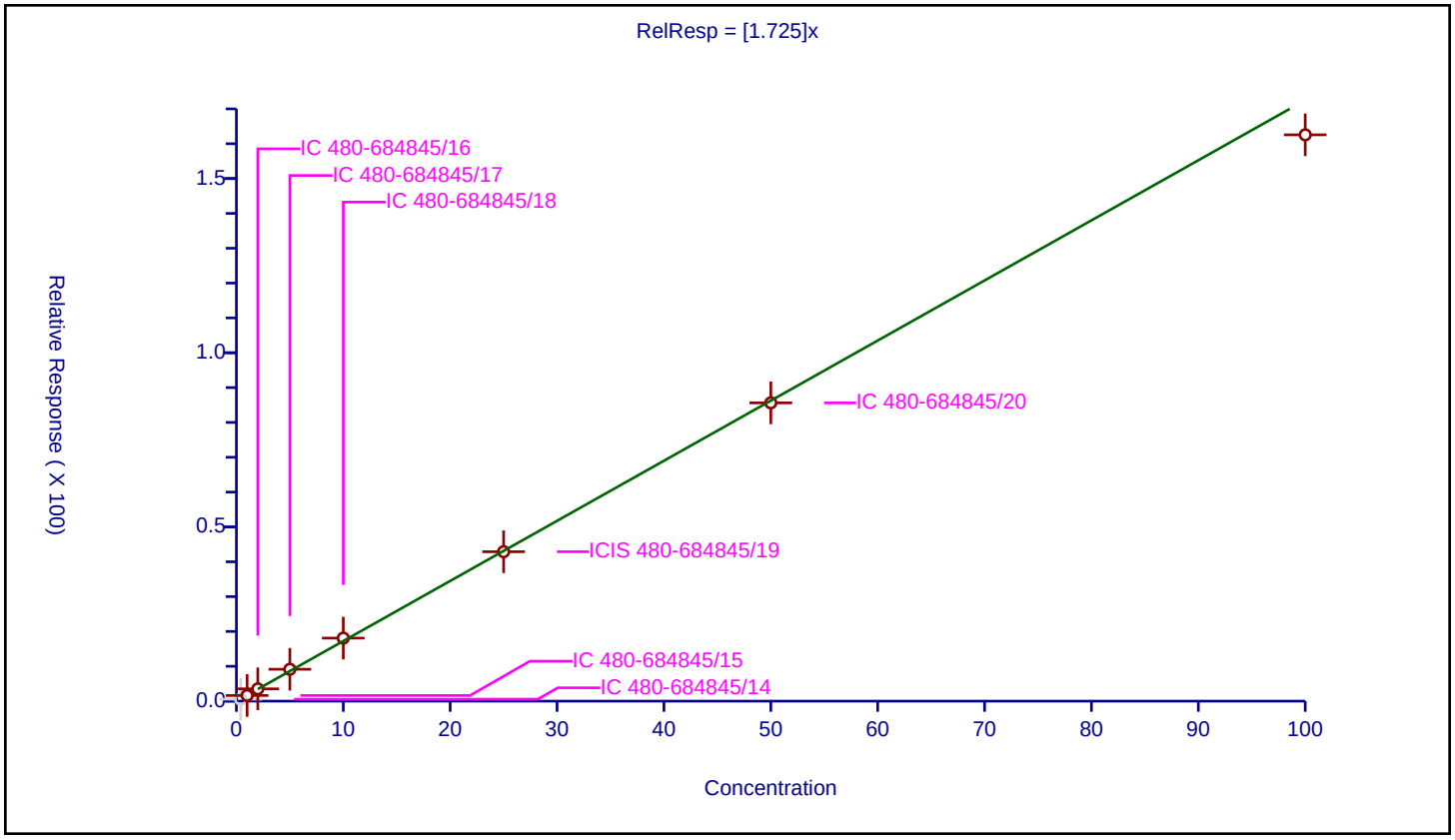
Curve Coefficients

Intercept:	0
Slope:	1.725

Error Coefficients

Standard Error:	406000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.55947	25.0	151572.0	1.398675	N
2	IC 480-684845/15	1.0	1.618803	25.0	145030.0	1.618803	Y
3	IC 480-684845/16	2.0	3.527248	25.0	147367.0	1.763624	Y
4	IC 480-684845/17	5.0	9.148874	25.0	140367.0	1.829775	Y
5	IC 480-684845/18	10.0	18.089921	25.0	133573.0	1.808992	Y
6	ICIS 480-684845/19	25.0	42.885952	25.0	134136.0	1.715438	Y
7	IC 480-684845/20	50.0	85.622575	25.0	128627.0	1.712452	Y
8	IC 480-684845/21	100.0	162.556032	25.0	131176.0	1.62556	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

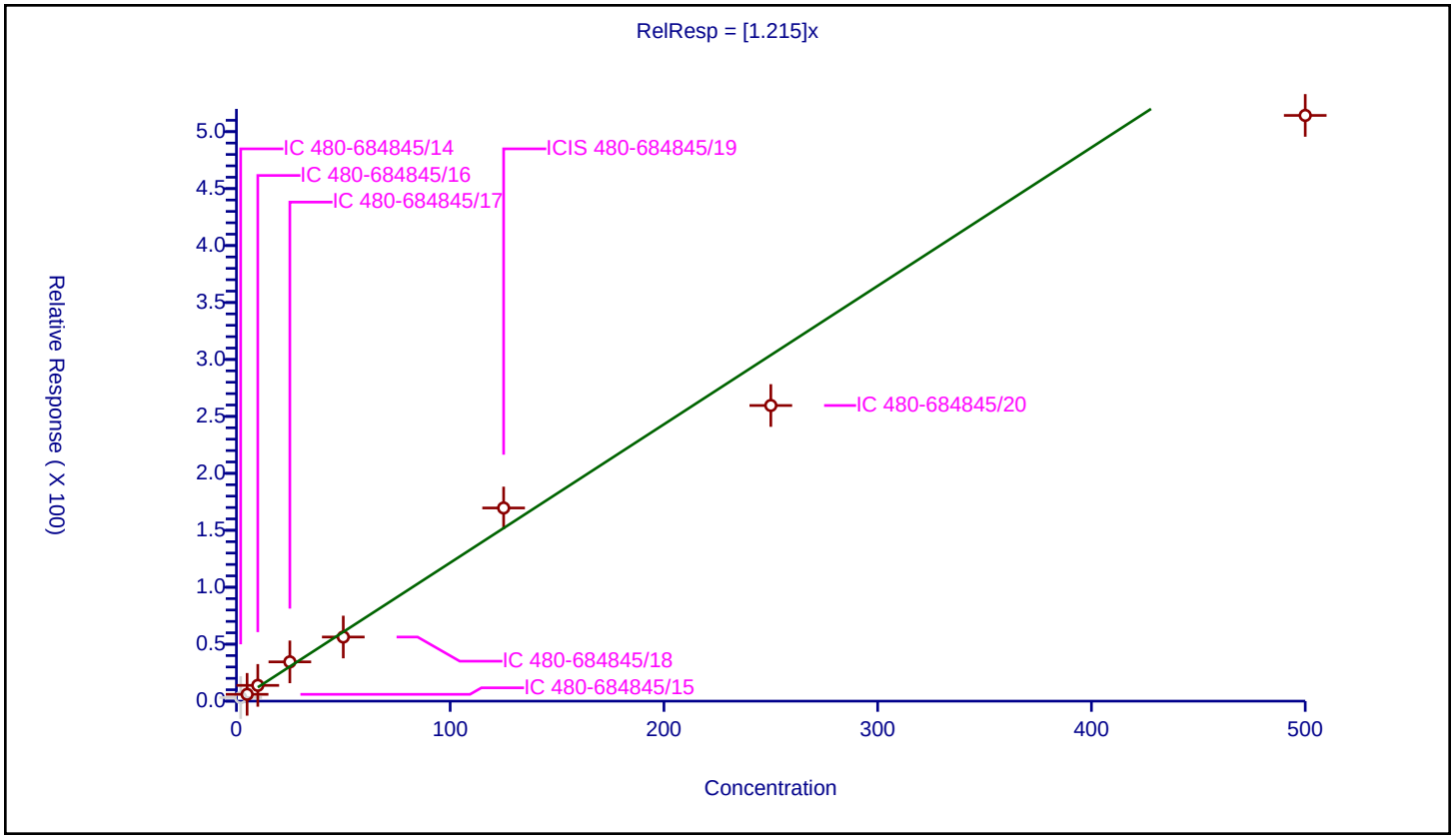
Curve Coefficients

Intercept:	0
Slope:	1.215

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	13.0
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	2.0	3.14405	25.0	151572.0	1.572025	N
2	IC 480-684845/15	5.0	5.971523	25.0	145030.0	1.194305	Y
3	IC 480-684845/16	10.0	13.837901	25.0	147367.0	1.38379	Y
4	IC 480-684845/17	25.0	34.482108	25.0	140367.0	1.379284	Y
5	IC 480-684845/18	50.0	56.297867	25.0	133573.0	1.125957	Y
6	ICIS 480-684845/19	125.0	169.596156	25.0	134136.0	1.356769	Y
7	IC 480-684845/20	250.0	259.592271	25.0	128627.0	1.038369	Y
8	IC 480-684845/21	500.0	514.262708	25.0	131176.0	1.028525	Y



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Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

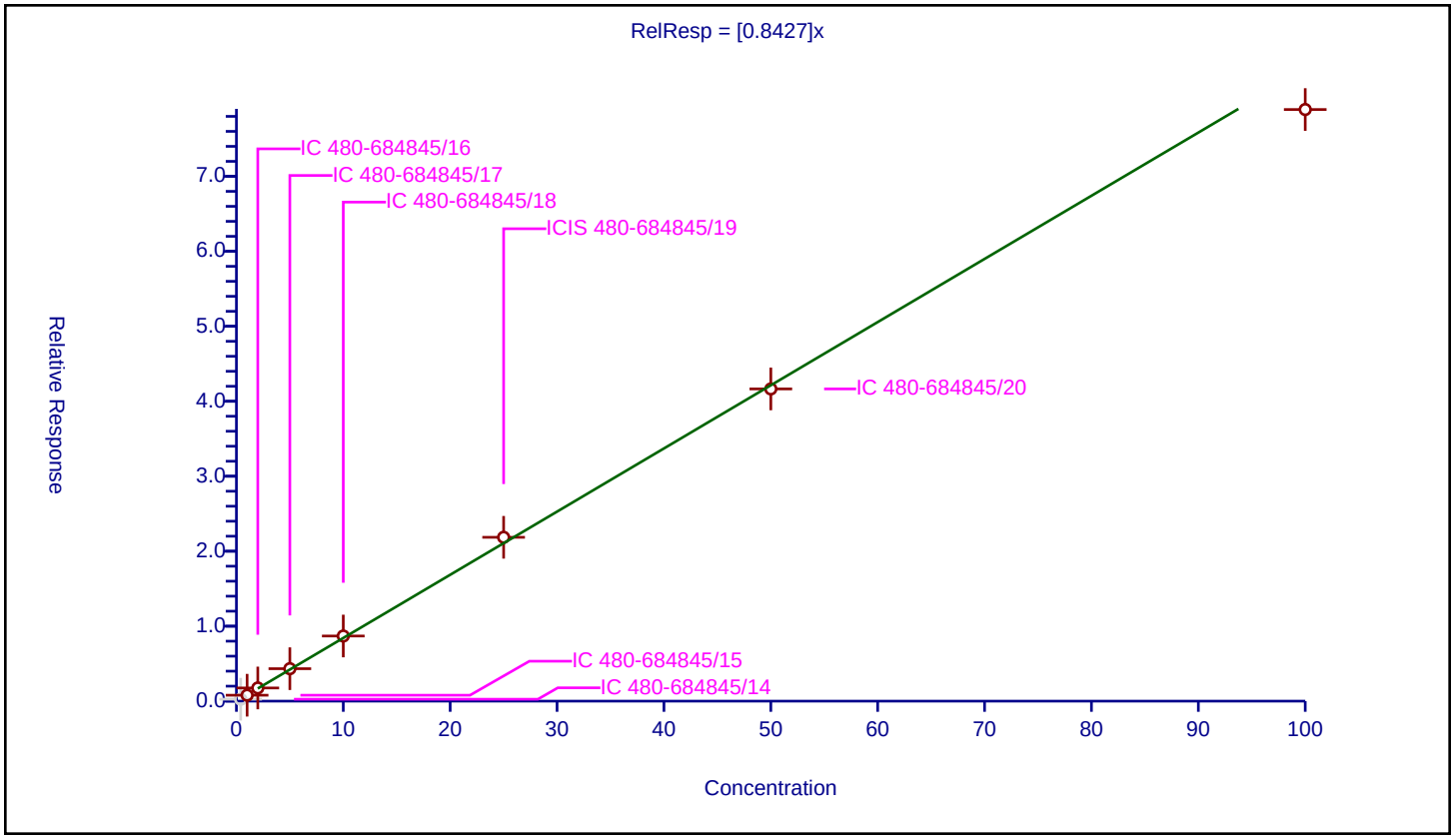
Curve Coefficients

Intercept:	0
Slope:	0.8427

Error Coefficients

Standard Error:	197000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.258623	25.0	151572.0	0.646557	N
2	IC 480-684845/15	1.0	0.790354	25.0	145030.0	0.790354	Y
3	IC 480-684845/16	2.0	1.755142	25.0	147367.0	0.877571	Y
4	IC 480-684845/17	5.0	4.328475	25.0	140367.0	0.865695	Y
5	IC 480-684845/18	10.0	8.687946	25.0	133573.0	0.868795	Y
6	ICIS 480-684845/19	25.0	21.852821	25.0	134136.0	0.874113	Y
7	IC 480-684845/20	50.0	41.645028	25.0	128627.0	0.832901	Y
8	IC 480-684845/21	100.0	78.916303	25.0	131176.0	0.789163	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

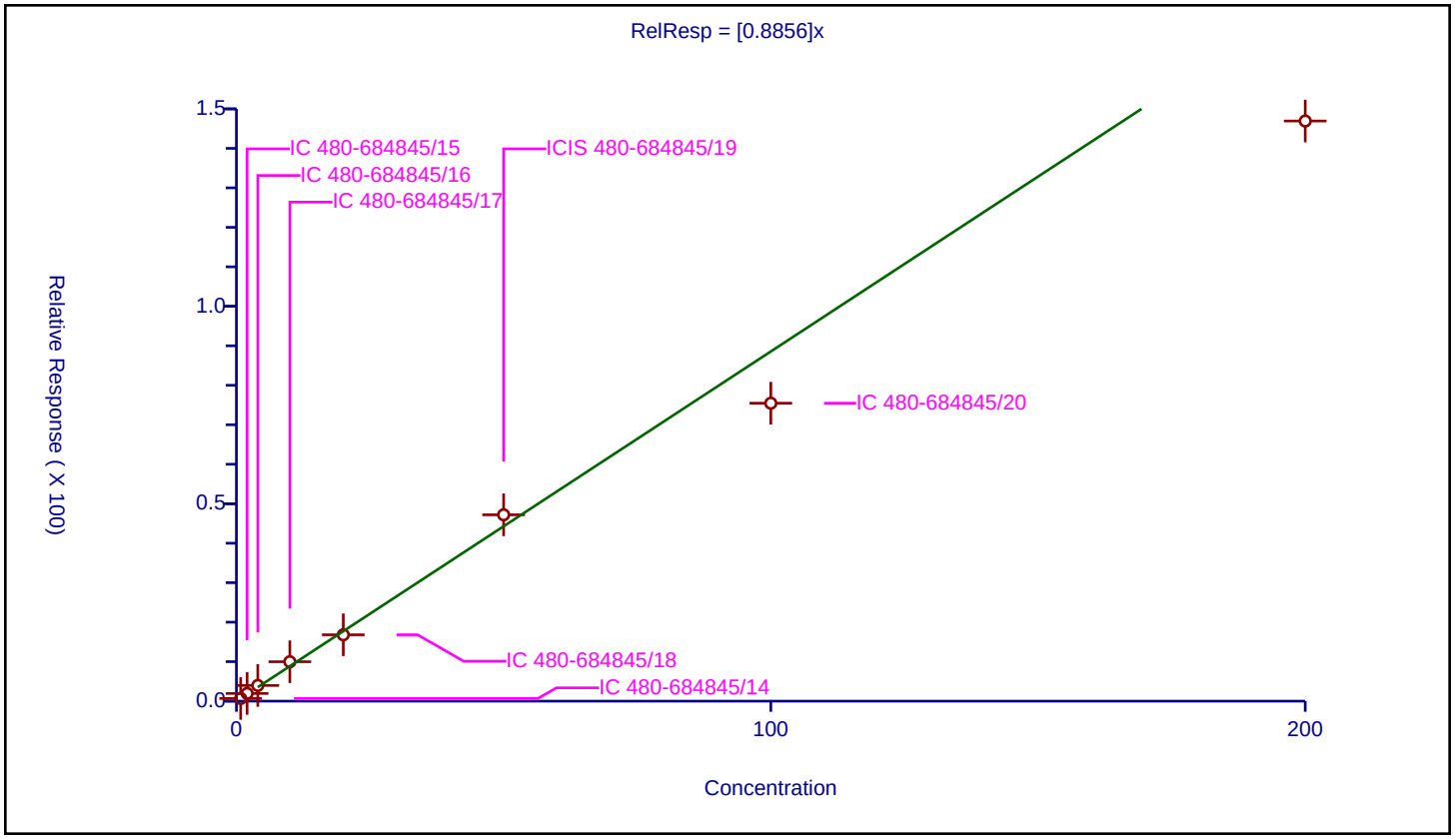
Curve Coefficients

Intercept:	0
Slope:	0.8856

Error Coefficients

Standard Error:	342000
Relative Standard Error:	12.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.8	0.677236	25.0	151572.0	0.846545	Y
2	IC 480-684845/15	2.0	1.94839	25.0	145030.0	0.974195	Y
3	IC 480-684845/16	4.0	3.969511	25.0	147367.0	0.992378	Y
4	IC 480-684845/17	10.0	9.982403	25.0	140367.0	0.99824	Y
5	IC 480-684845/18	20.0	16.806166	25.0	133573.0	0.840308	Y
6	ICIS 480-684845/19	50.0	47.198739	25.0	134136.0	0.943975	Y
7	IC 480-684845/20	100.0	75.458885	25.0	128627.0	0.754589	Y
8	IC 480-684845/21	200.0	146.93065	25.0	131176.0	0.734653	Y



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Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

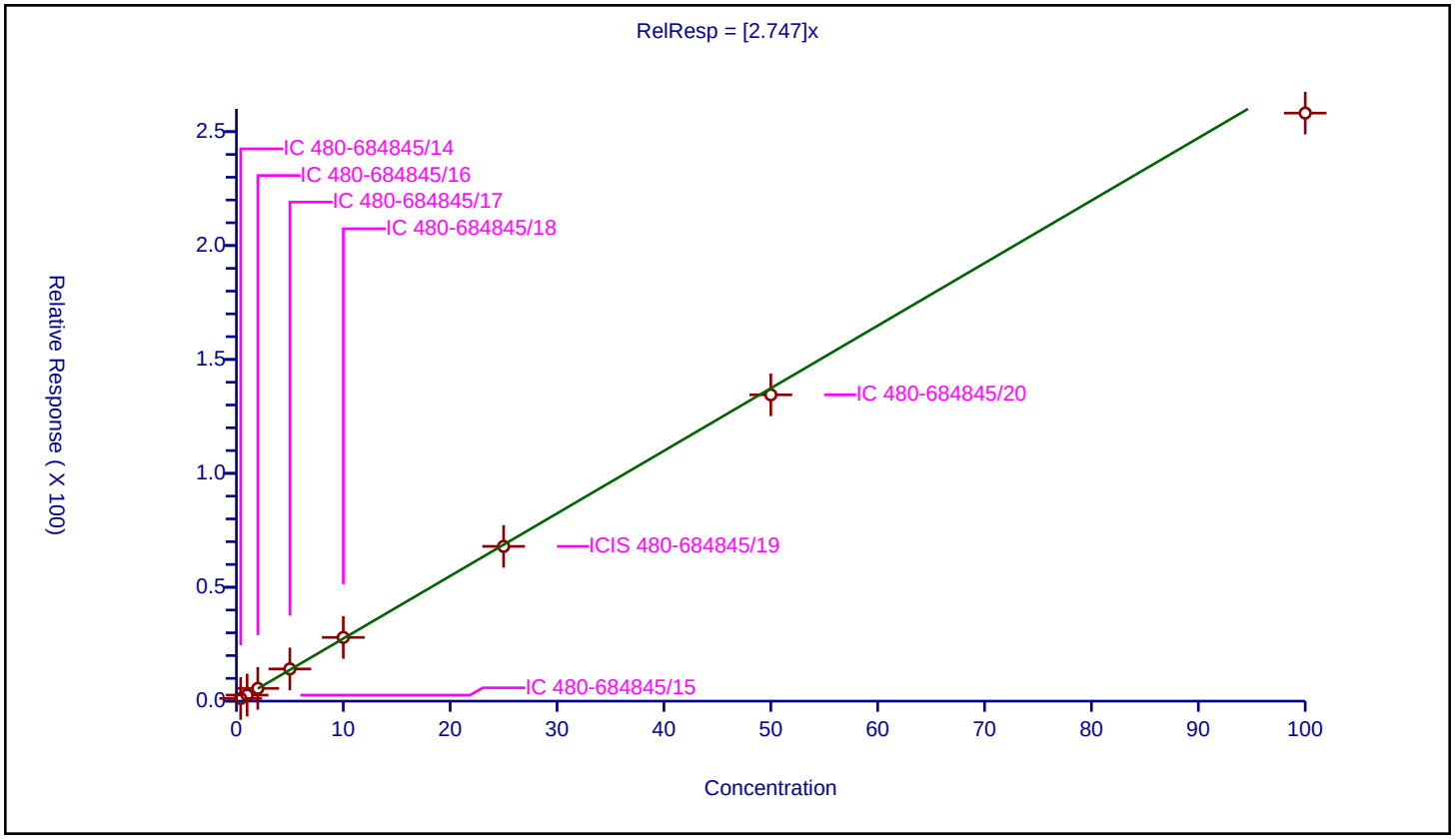
Curve Coefficients

Intercept:	0
Slope:	2.747

Error Coefficients

Standard Error:	595000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	1.159515	25.0	151572.0	2.898787	Y
2	IC 480-684845/15	1.0	2.659622	25.0	145030.0	2.659622	Y
3	IC 480-684845/16	2.0	5.609634	25.0	147367.0	2.804817	Y
4	IC 480-684845/17	5.0	14.136692	25.0	140367.0	2.827338	Y
5	IC 480-684845/18	10.0	27.971596	25.0	133573.0	2.79716	Y
6	ICIS 480-684845/19	25.0	67.942424	25.0	134136.0	2.717697	Y
7	IC 480-684845/20	50.0	134.475266	25.0	128627.0	2.689505	Y
8	IC 480-684845/21	100.0	258.152787	25.0	131176.0	2.581528	Y



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Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

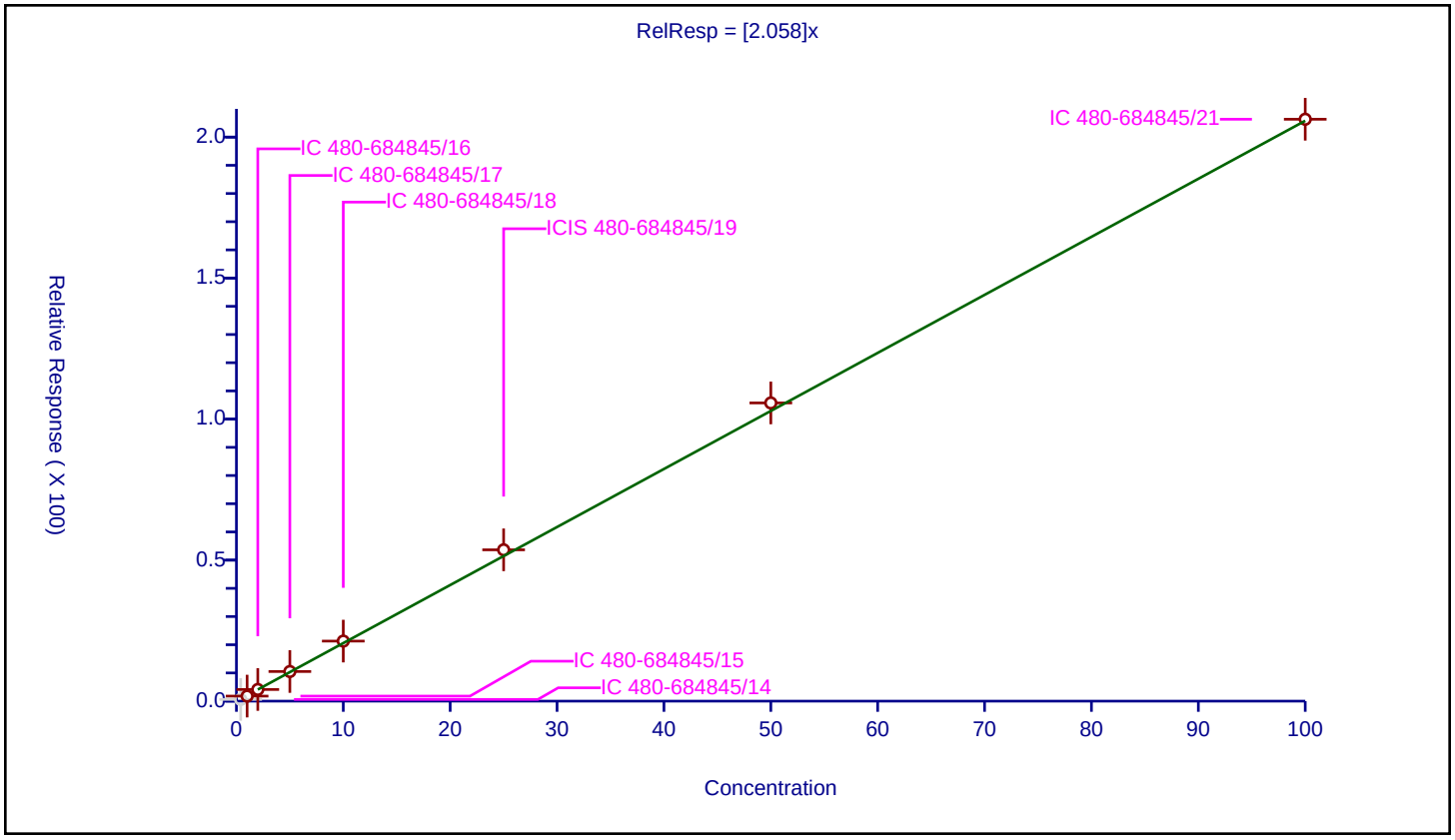
Curve Coefficients

Intercept:	0
Slope:	2.058

Error Coefficients

Standard Error:	511000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.606972	25.0	151572.0	1.517431	N
2	IC 480-684845/15	1.0	1.786699	25.0	145030.0	1.786699	Y
3	IC 480-684845/16	2.0	4.12762	25.0	147367.0	2.06381	Y
4	IC 480-684845/17	5.0	10.506031	25.0	140367.0	2.101206	Y
5	IC 480-684845/18	10.0	21.294161	25.0	133573.0	2.129416	Y
6	ICIS 480-684845/19	25.0	53.651518	25.0	134136.0	2.146061	Y
7	IC 480-684845/20	50.0	105.737131	25.0	128627.0	2.114743	Y
8	IC 480-684845/21	100.0	206.322612	25.0	131176.0	2.063226	Y



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Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

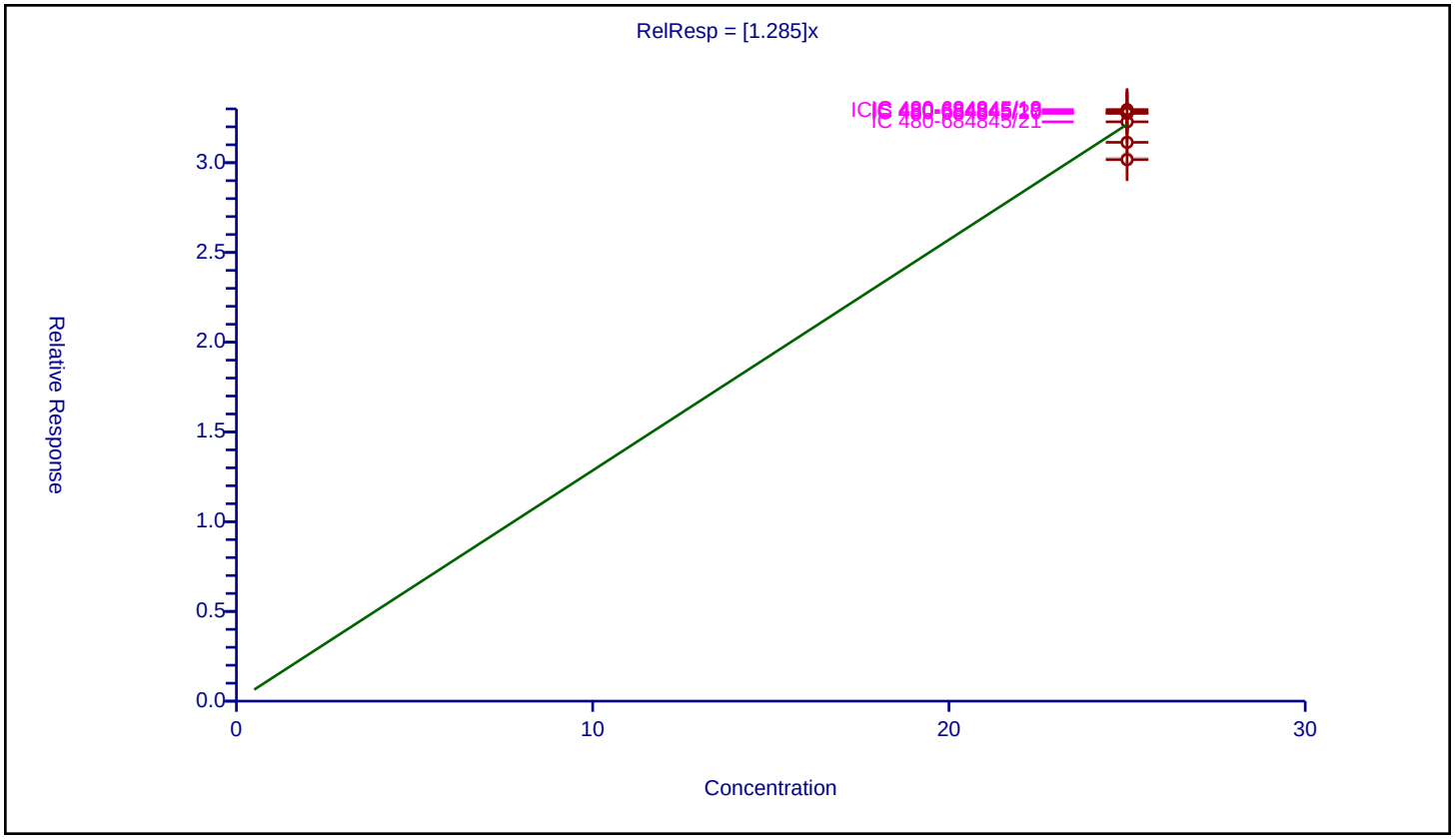
Curve Coefficients

Intercept:	0
Slope:	1.285

Error Coefficients

Standard Error:	190000
Relative Standard Error:	3.3
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	25.0	30.266309	25.0	151572.0	1.210652	N
2	IC 480-684845/15	25.0	31.135799	25.0	145030.0	1.245432	Y
3	IC 480-684845/16	25.0	30.172121	25.0	147367.0	1.206885	Y
4	IC 480-684845/17	25.0	32.753959	25.0	140367.0	1.310158	Y
5	IC 480-684845/18	25.0	32.961751	25.0	133573.0	1.31847	Y
6	ICIS 480-684845/19	25.0	32.872793	25.0	134136.0	1.314912	Y
7	IC 480-684845/20	25.0	32.778693	25.0	128627.0	1.311148	Y
8	IC 480-684845/21	25.0	32.278199	25.0	131176.0	1.291128	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

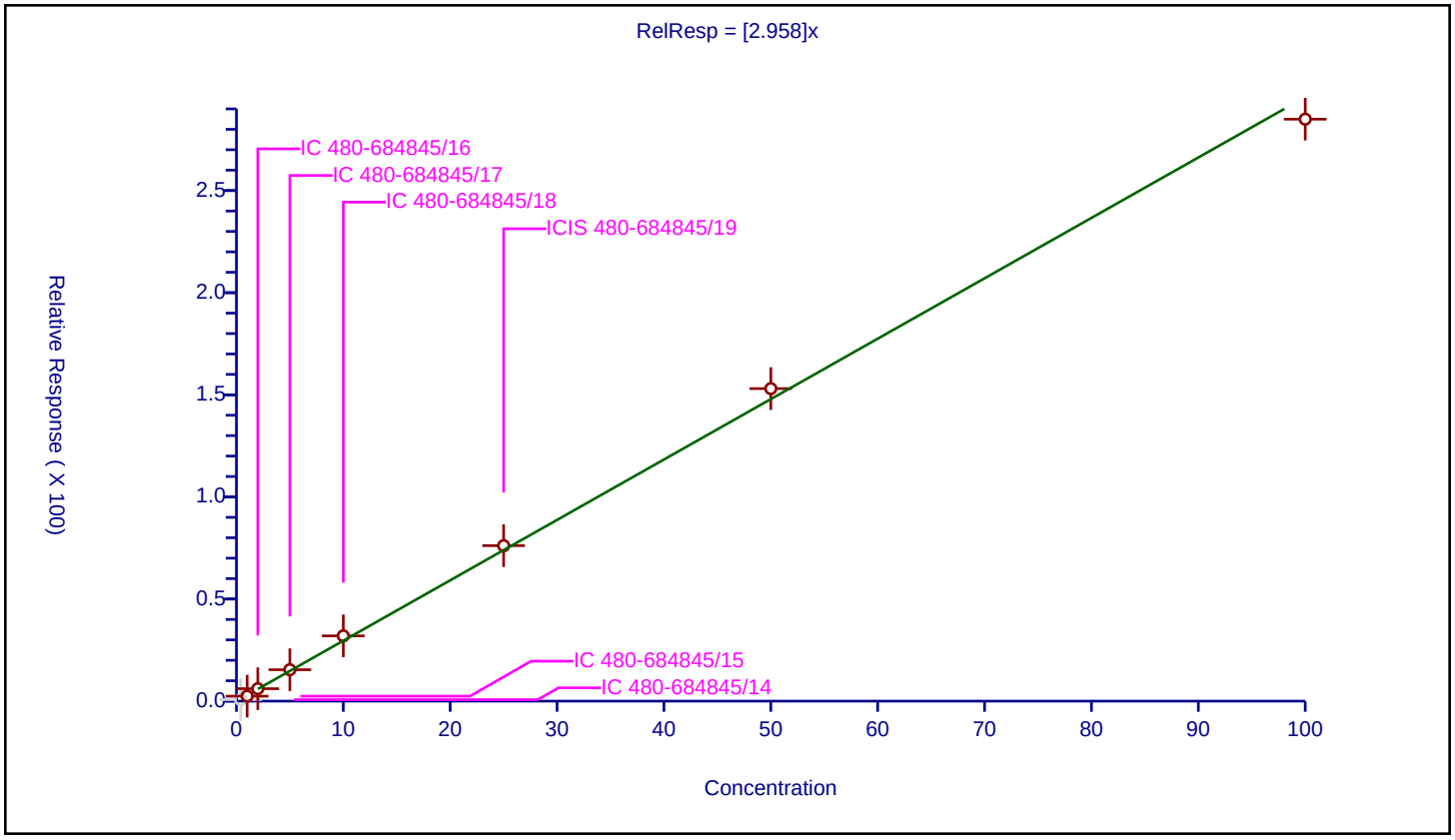
Curve Coefficients

Intercept:	0
Slope:	2.958

Error Coefficients

Standard Error:	714000
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.740572	25.0	151572.0	1.85143	N
2	IC 480-684845/15	1.0	2.42967	25.0	145030.0	2.42967	Y
3	IC 480-684845/16	2.0	6.091425	25.0	147367.0	3.045712	Y
4	IC 480-684845/17	5.0	15.38378	25.0	140367.0	3.076756	Y
5	IC 480-684845/18	10.0	31.963795	25.0	133573.0	3.19638	Y
6	ICIS 480-684845/19	25.0	76.136906	25.0	134136.0	3.045476	Y
7	IC 480-684845/20	50.0	153.031634	25.0	128627.0	3.060633	Y
8	IC 480-684845/21	100.0	284.970193	25.0	131176.0	2.849702	Y



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Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

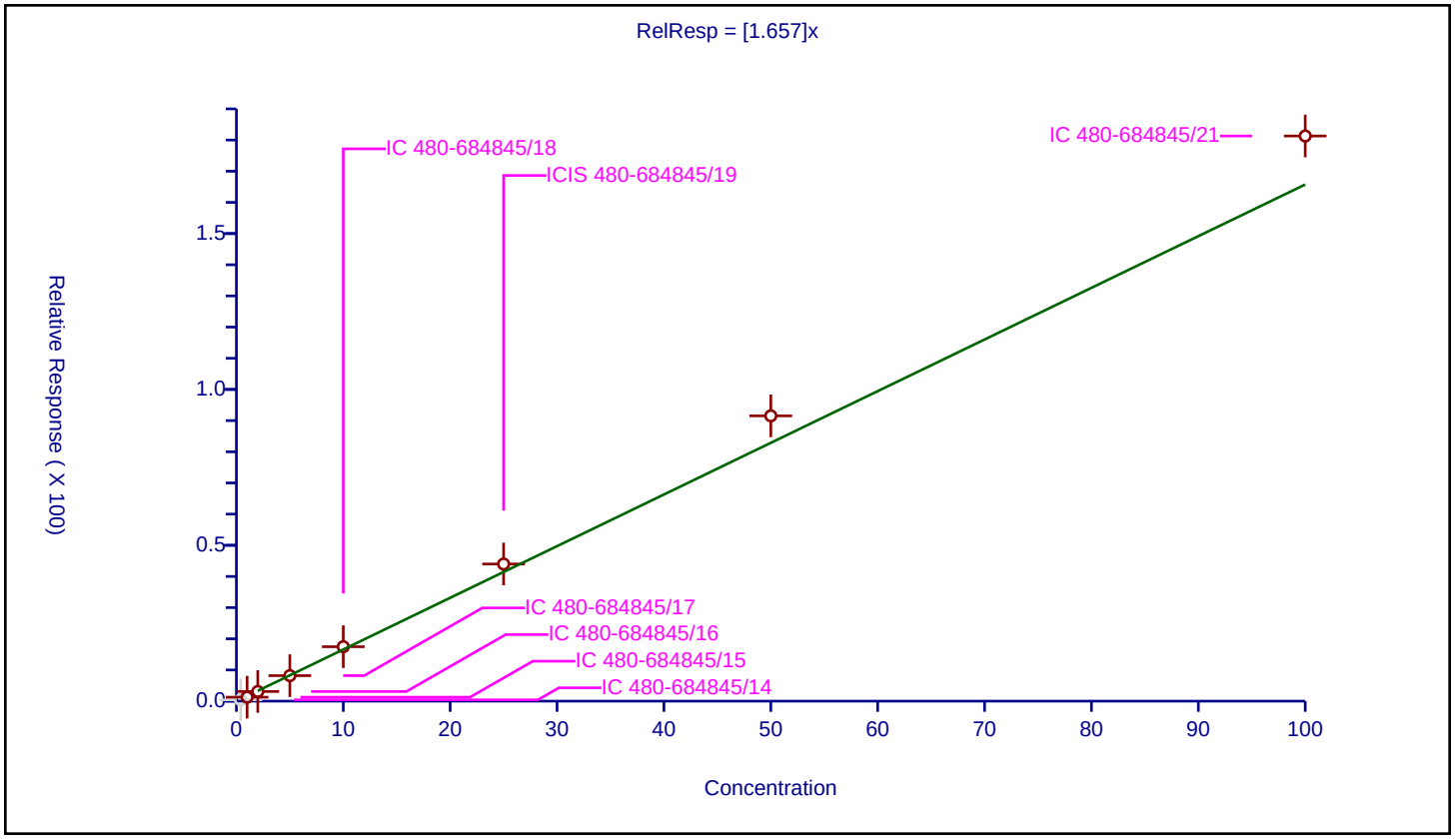
Curve Coefficients

Intercept:	0
Slope:	1.657

Error Coefficients

Standard Error:	446000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.419768	25.0	151572.0	1.049419	N
2	IC 480-684845/15	1.0	1.267324	25.0	145030.0	1.267324	Y
3	IC 480-684845/16	2.0	3.097708	25.0	147367.0	1.548854	Y
4	IC 480-684845/17	5.0	8.177848	25.0	140367.0	1.63557	Y
5	IC 480-684845/18	10.0	17.462174	25.0	133573.0	1.746217	Y
6	ICIS 480-684845/19	25.0	43.998815	25.0	134136.0	1.759953	Y
7	IC 480-684845/20	50.0	91.528606	25.0	128627.0	1.830572	Y
8	IC 480-684845/21	100.0	181.302029	25.0	131176.0	1.81302	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

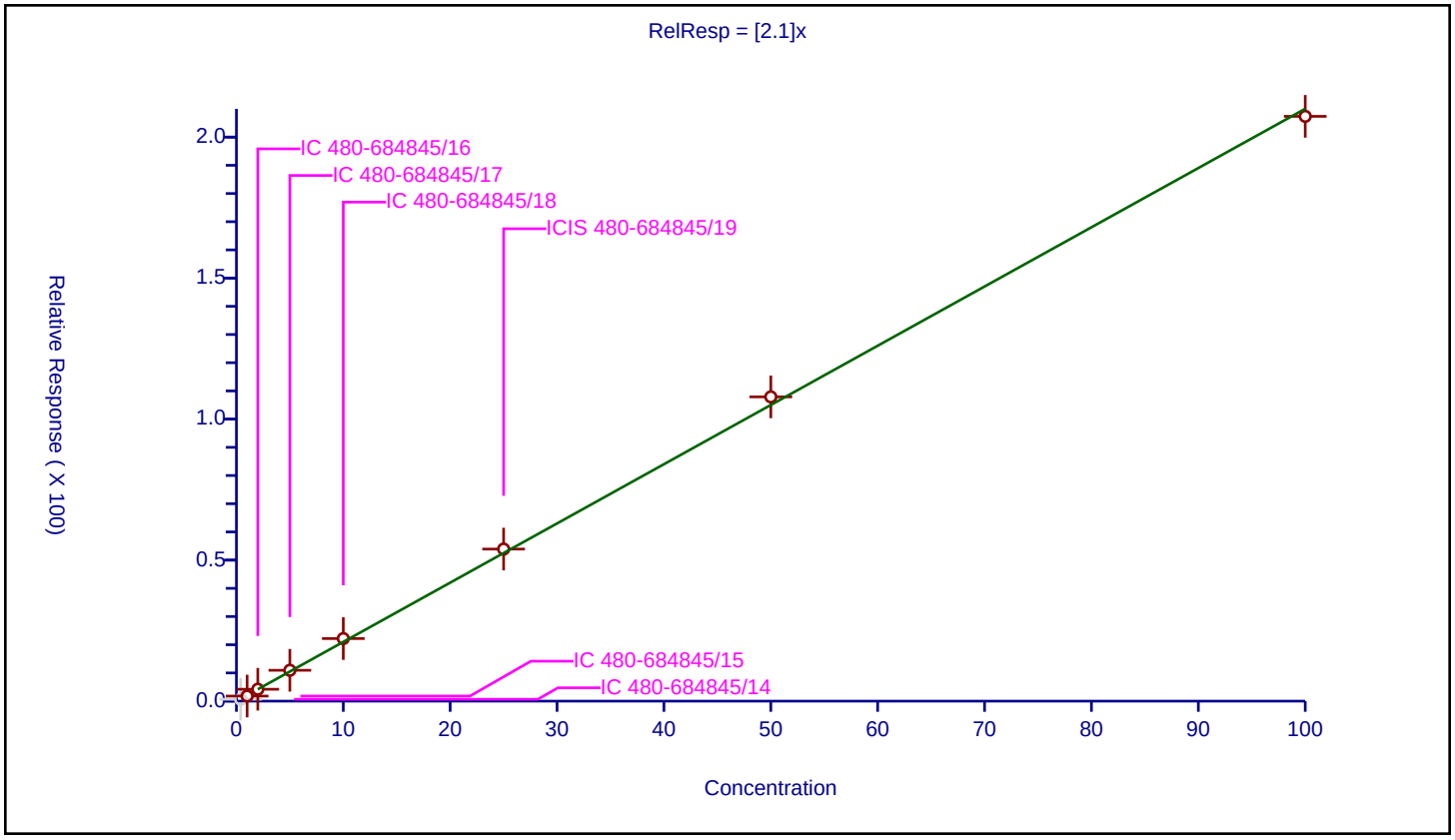
Curve Coefficients

Intercept:	0
Slope:	2.1

Error Coefficients

Standard Error:	515000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.661237	25.0	151572.0	1.653092	N
2	IC 480-684845/15	1.0	1.799455	25.0	145030.0	1.799455	Y
3	IC 480-684845/16	2.0	4.214987	25.0	147367.0	2.107494	Y
4	IC 480-684845/17	5.0	10.942921	25.0	140367.0	2.188584	Y
5	IC 480-684845/18	10.0	22.18375	25.0	133573.0	2.218375	Y
6	ICIS 480-684845/19	25.0	53.91692	25.0	134136.0	2.156677	Y
7	IC 480-684845/20	50.0	107.891422	25.0	128627.0	2.157828	Y
8	IC 480-684845/21	100.0	207.36015	25.0	131176.0	2.073601	Y



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Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

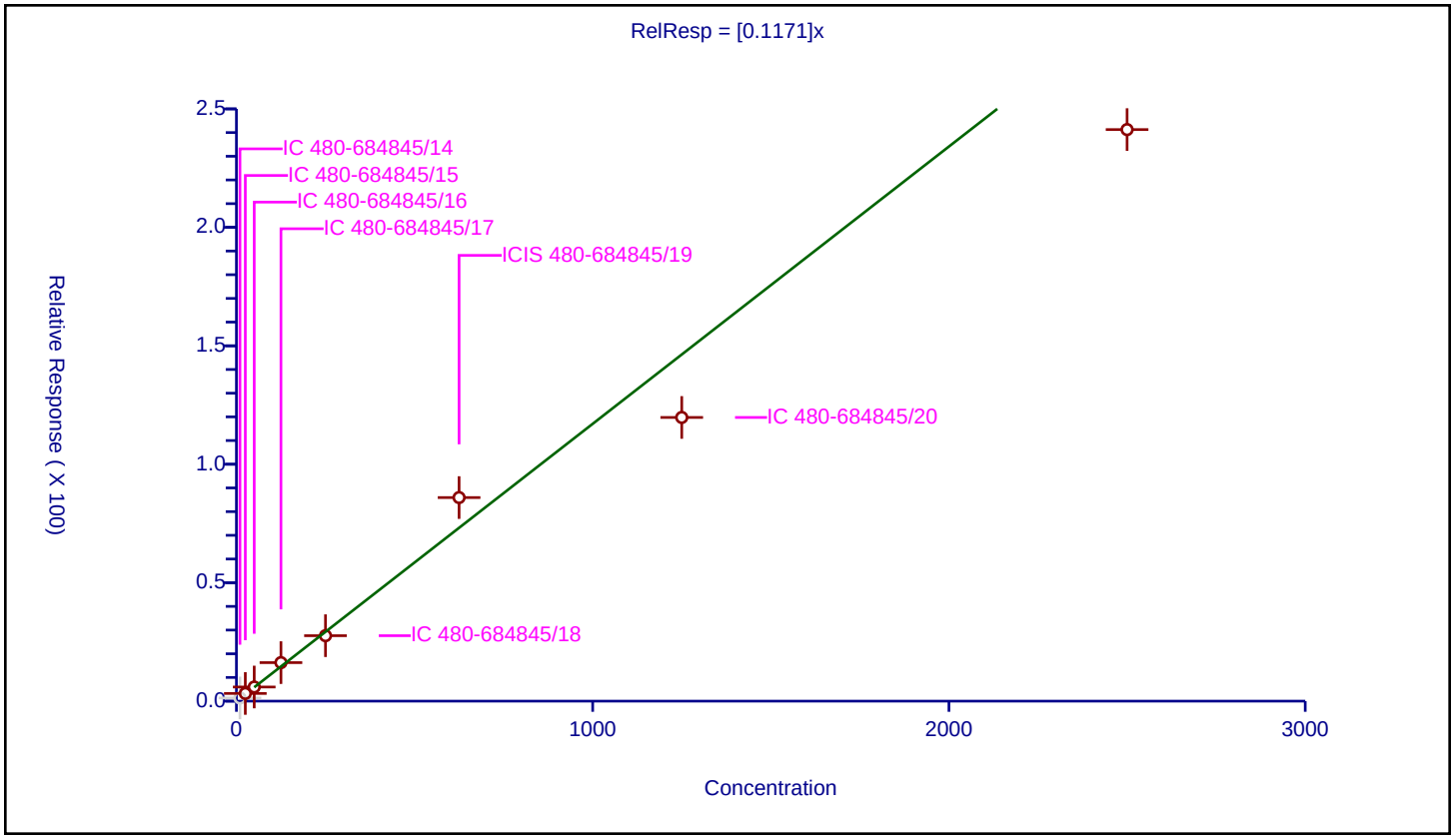
Curve Coefficients

Intercept:	0
Slope:	0.1171

Error Coefficients

Standard Error:	609000
Relative Standard Error:	14.3
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	10.0	1.34639	25.0	151572.0	0.134639	N
2	IC 480-684845/15	25.0	3.245535	25.0	145030.0	0.129821	Y
3	IC 480-684845/16	50.0	5.959611	25.0	147367.0	0.119192	Y
4	IC 480-684845/17	125.0	16.260588	25.0	140367.0	0.130085	Y
5	IC 480-684845/18	250.0	27.627028	25.0	133573.0	0.110508	Y
6	ICIS 480-684845/19	625.0	85.930511	25.0	134136.0	0.137489	Y
7	IC 480-684845/20	1250.0	119.757905	25.0	128627.0	0.095806	Y
8	IC 480-684845/21	2500.0	241.269363	25.0	131176.0	0.096508	Y



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Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

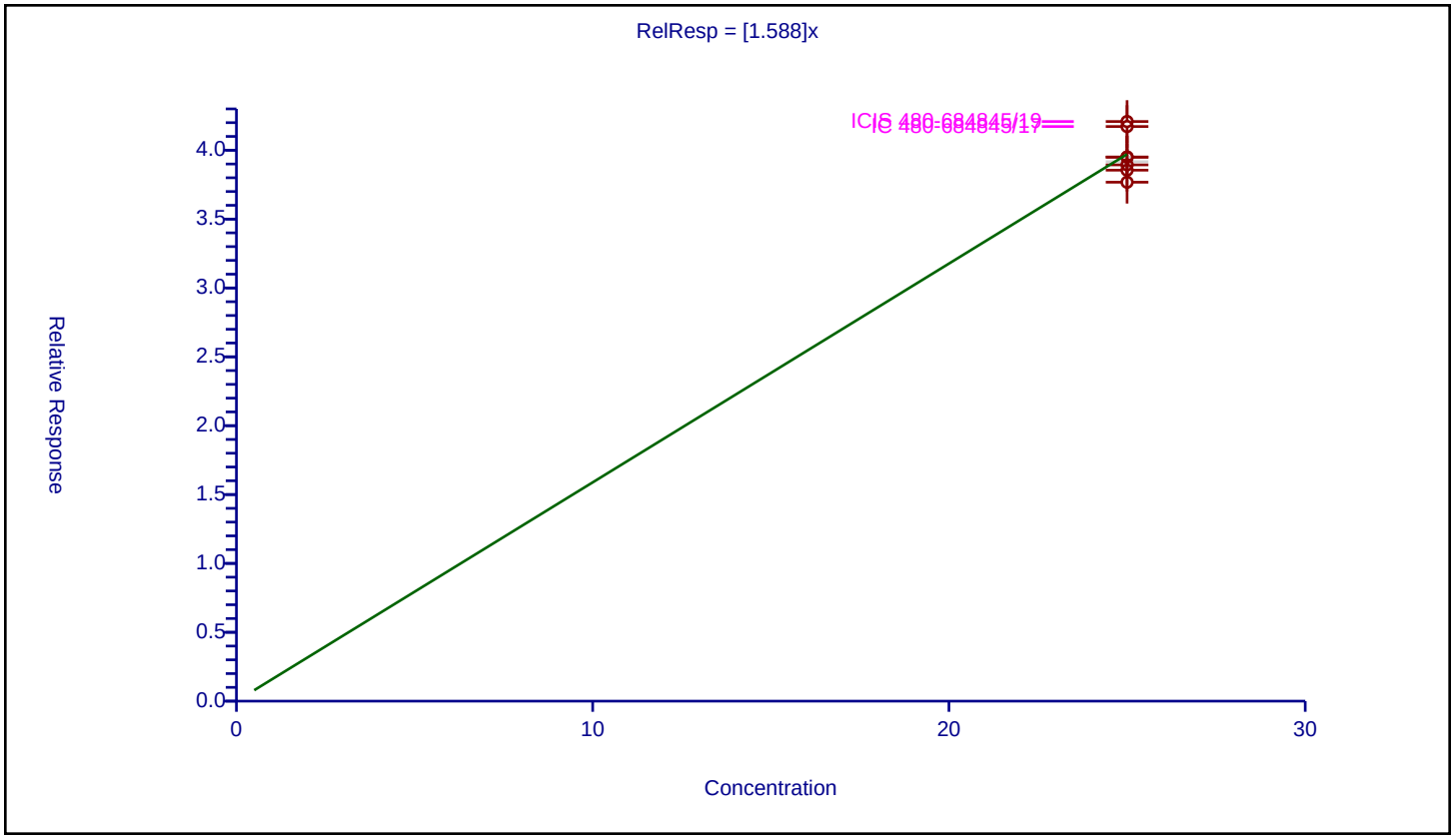
Curve Coefficients

Intercept:	0
Slope:	1.588

Error Coefficients

Standard Error:	236000
Relative Standard Error:	4.1
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	25.0	39.169504	25.0	151572.0	1.56678	N
2	IC 480-684845/15	25.0	39.509239	25.0	145030.0	1.58037	Y
3	IC 480-684845/16	25.0	38.935447	25.0	147367.0	1.557418	Y
4	IC 480-684845/17	25.0	41.71992	25.0	140367.0	1.668797	Y
5	IC 480-684845/18	25.0	39.490765	25.0	133573.0	1.579631	Y
6	ICIS 480-684845/19	25.0	42.083035	25.0	134136.0	1.683321	Y
7	IC 480-684845/20	25.0	38.549838	25.0	128627.0	1.541994	Y
8	IC 480-684845/21	25.0	37.675718	25.0	131176.0	1.507029	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

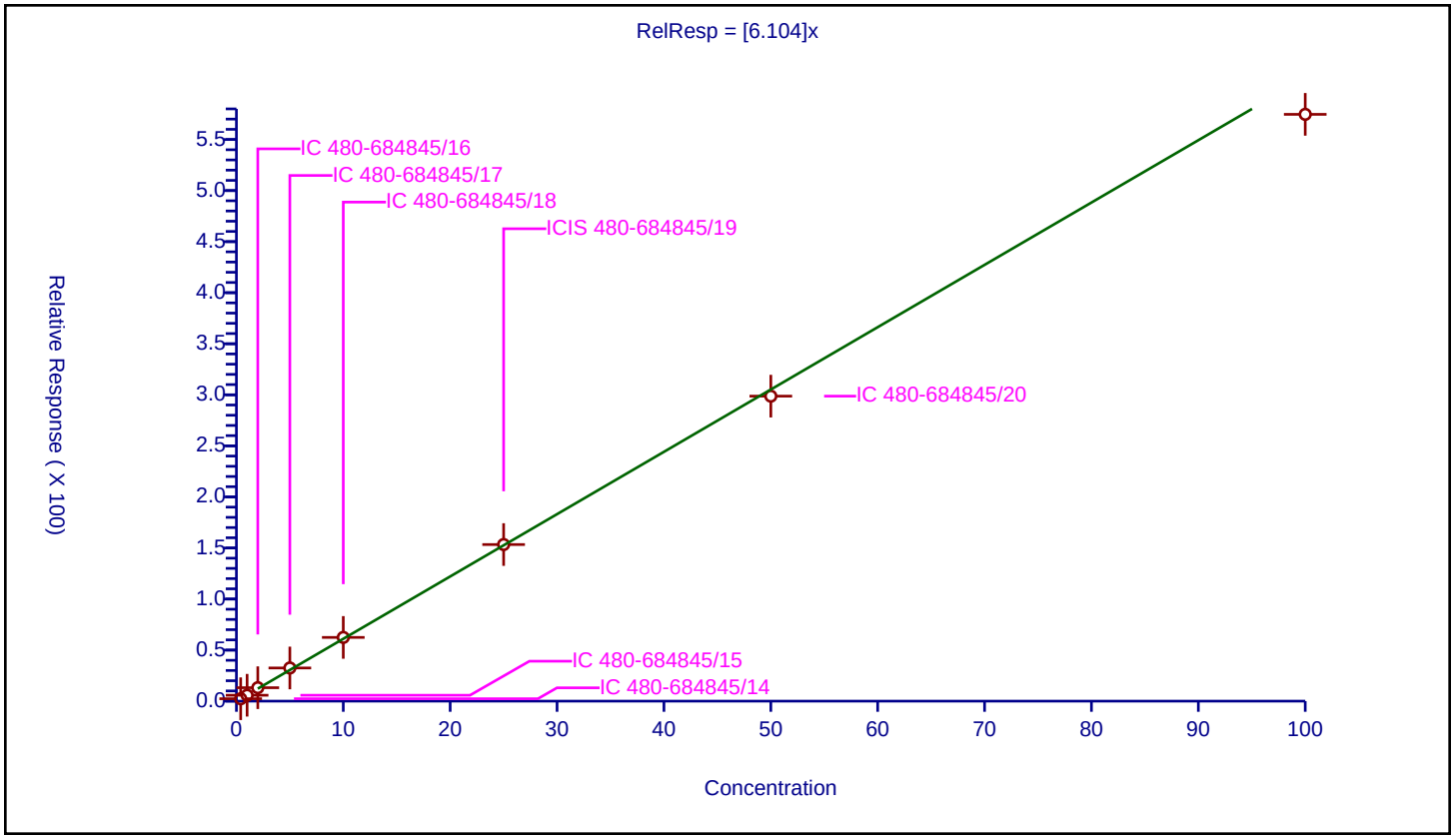
Curve Coefficients

Intercept:	0
Slope:	6.104

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	2.350203	25.0	151572.0	5.875508	Y
2	IC 480-684845/15	1.0	5.787251	25.0	145030.0	5.787251	Y
3	IC 480-684845/16	2.0	13.148975	25.0	147367.0	6.574488	Y
4	IC 480-684845/17	5.0	32.486802	25.0	140367.0	6.49736	Y
5	IC 480-684845/18	10.0	62.401833	25.0	133573.0	6.240183	Y
6	ICIS 480-684845/19	25.0	153.365055	25.0	134136.0	6.134602	Y
7	IC 480-684845/20	50.0	298.680098	25.0	128627.0	5.973602	Y
8	IC 480-684845/21	100.0	574.665335	25.0	131176.0	5.746653	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

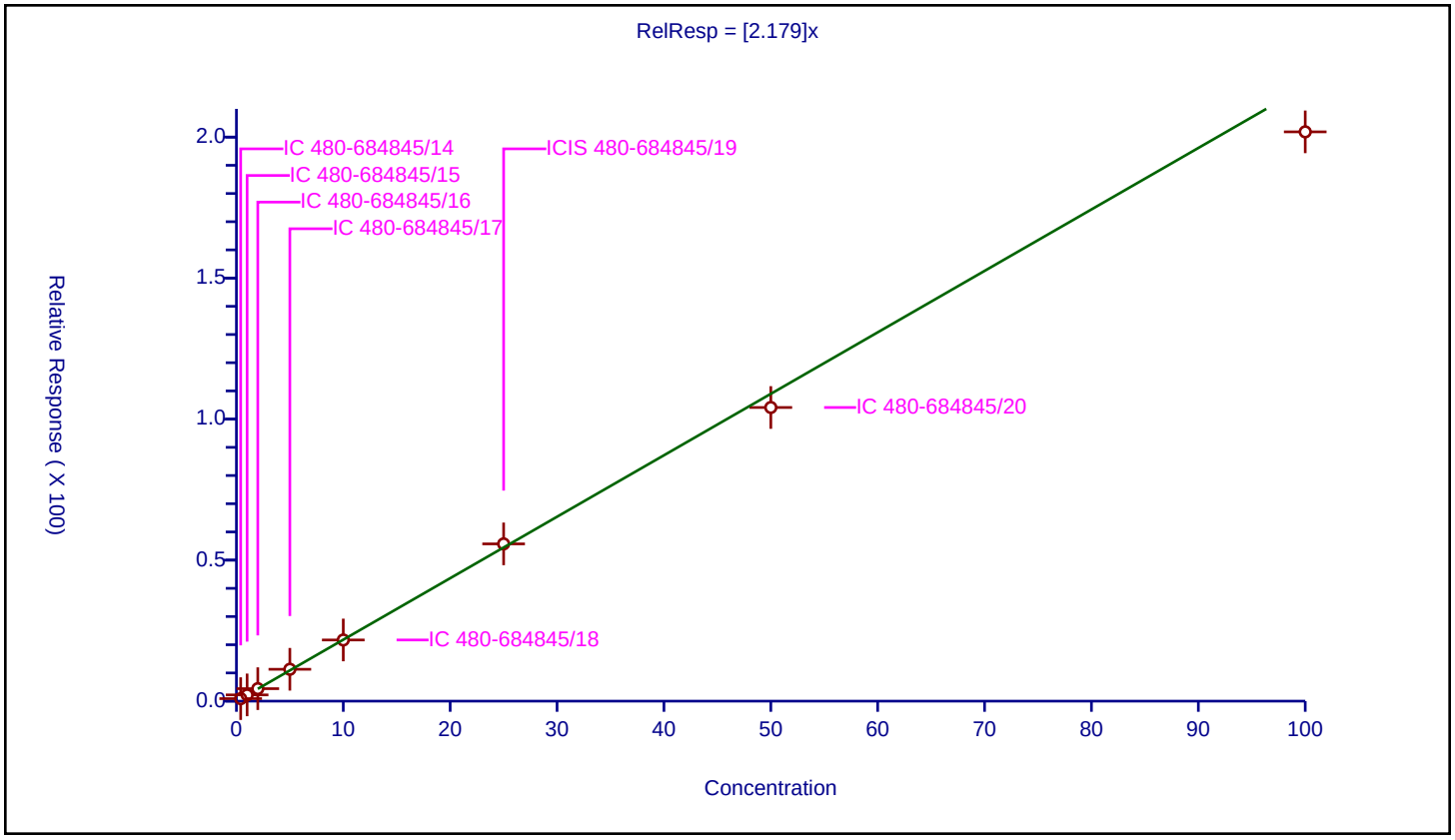
Curve Coefficients

Intercept:	0
Slope:	2.179

Error Coefficients

Standard Error:	465000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.896933	25.0	151572.0	2.242334	Y
2	IC 480-684845/15	1.0	2.218851	25.0	145030.0	2.218851	Y
3	IC 480-684845/16	2.0	4.426534	25.0	147367.0	2.213267	Y
4	IC 480-684845/17	5.0	11.301624	25.0	140367.0	2.260325	Y
5	IC 480-684845/18	10.0	21.684584	25.0	133573.0	2.168458	Y
6	ICIS 480-684845/19	25.0	55.763553	25.0	134136.0	2.230542	Y
7	IC 480-684845/20	50.0	104.119858	25.0	128627.0	2.082397	Y
8	IC 480-684845/21	100.0	201.859525	25.0	131176.0	2.018595	Y



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Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

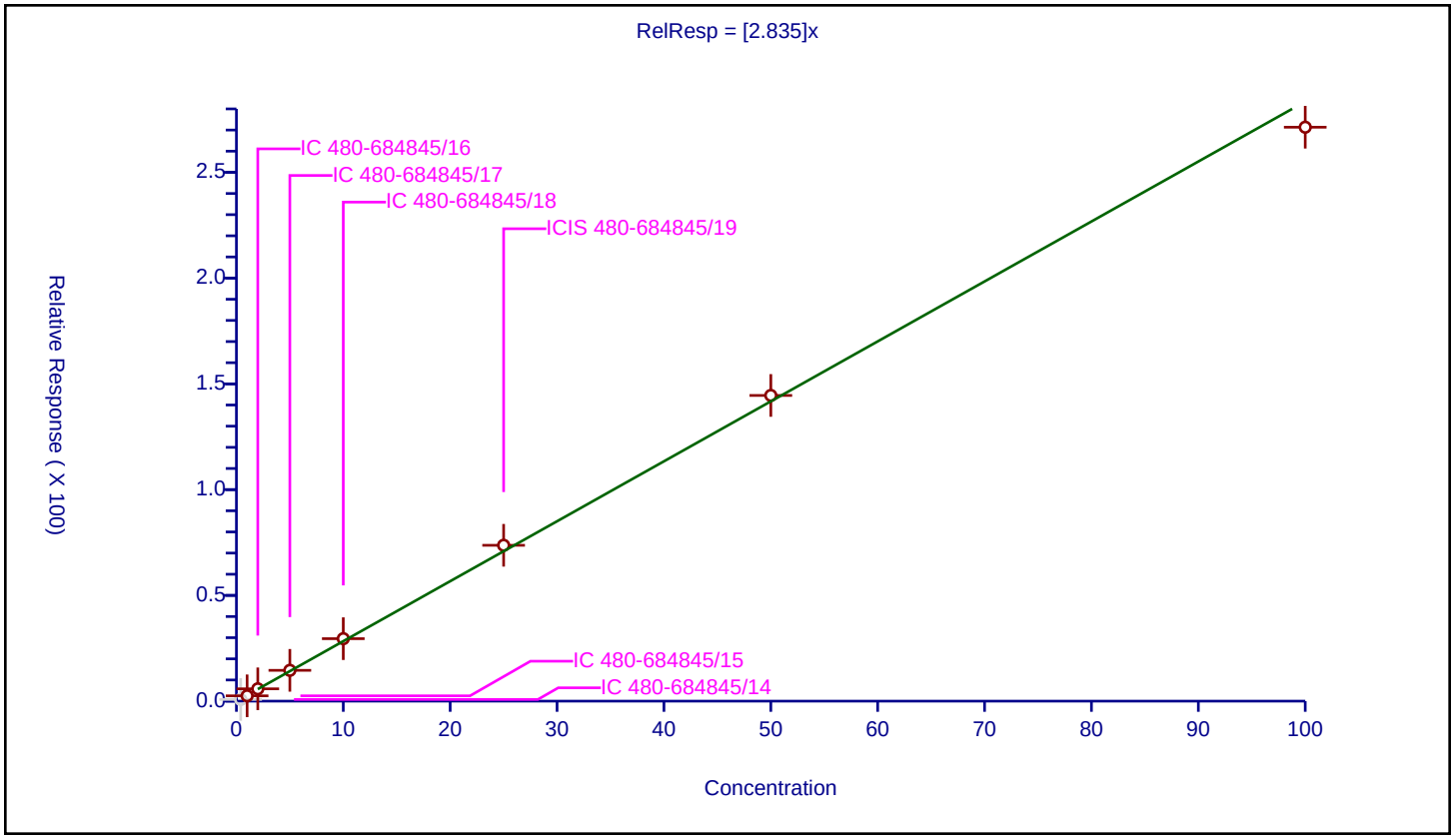
Curve Coefficients

Intercept:	0
Slope:	2.835

Error Coefficients

Standard Error:	679000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.794507	25.0	151572.0	1.986267	N
2	IC 480-684845/15	1.0	2.509653	25.0	145030.0	2.509653	Y
3	IC 480-684845/16	2.0	5.827967	25.0	147367.0	2.913983	Y
4	IC 480-684845/17	5.0	14.567705	25.0	140367.0	2.913541	Y
5	IC 480-684845/18	10.0	29.536471	25.0	133573.0	2.953647	Y
6	ICIS 480-684845/19	25.0	73.684358	25.0	134136.0	2.947374	Y
7	IC 480-684845/20	50.0	144.526227	25.0	128627.0	2.890525	Y
8	IC 480-684845/21	100.0	271.338698	25.0	131176.0	2.713387	Y



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Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

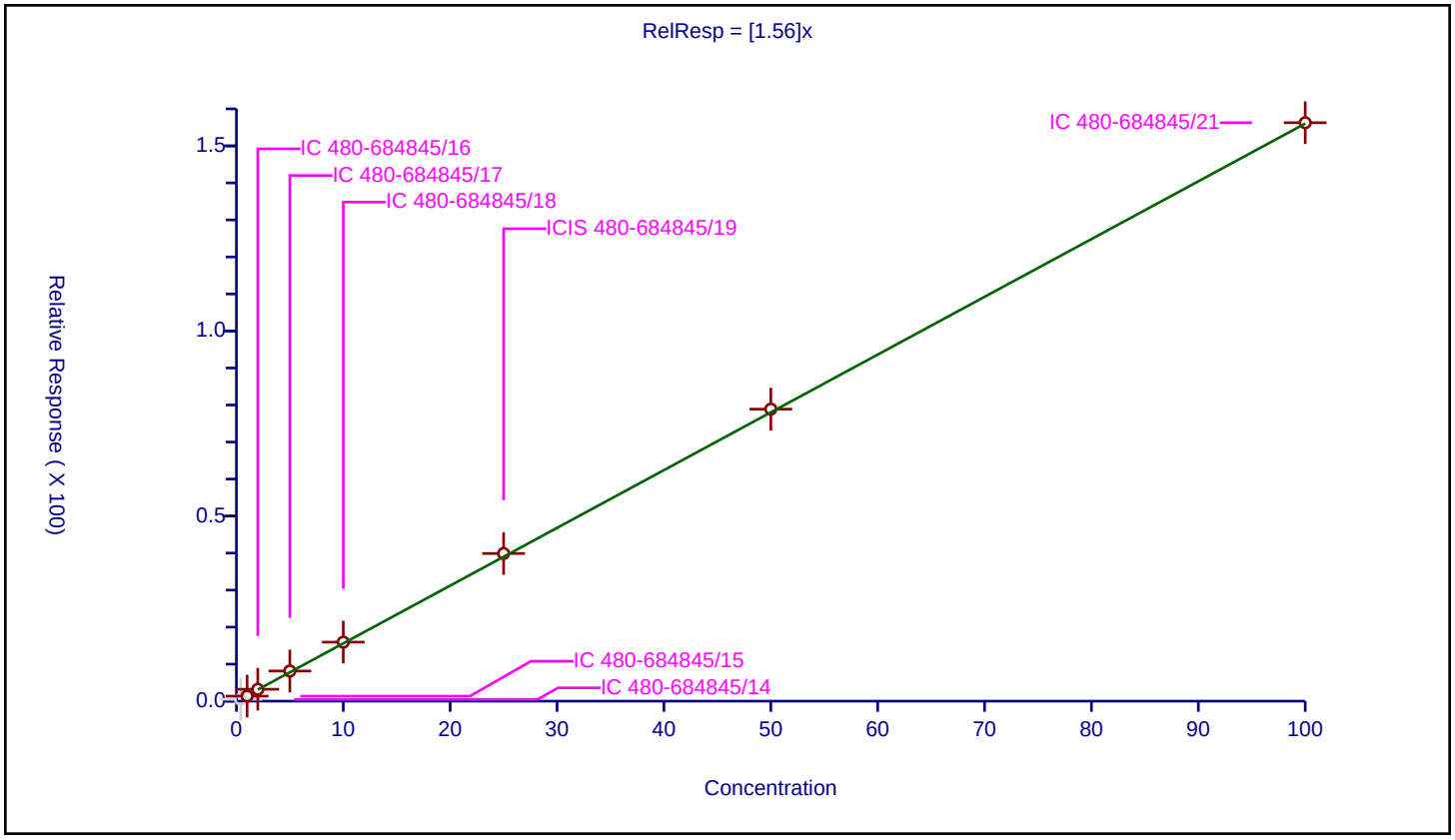
Curve Coefficients

Intercept:	0
Slope:	1.56

Error Coefficients

Standard Error:	386000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.491845	25.0	151572.0	1.229614	N
2	IC 480-684845/15	1.0	1.357823	25.0	145030.0	1.357823	Y
3	IC 480-684845/16	2.0	3.213236	25.0	147367.0	1.606618	Y
4	IC 480-684845/17	5.0	8.138843	25.0	140367.0	1.627769	Y
5	IC 480-684845/18	10.0	15.939786	25.0	133573.0	1.593979	Y
6	ICIS 480-684845/19	25.0	39.889552	25.0	134136.0	1.595582	Y
7	IC 480-684845/20	50.0	78.88682	25.0	128627.0	1.577736	Y
8	IC 480-684845/21	100.0	156.264866	25.0	131176.0	1.562649	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

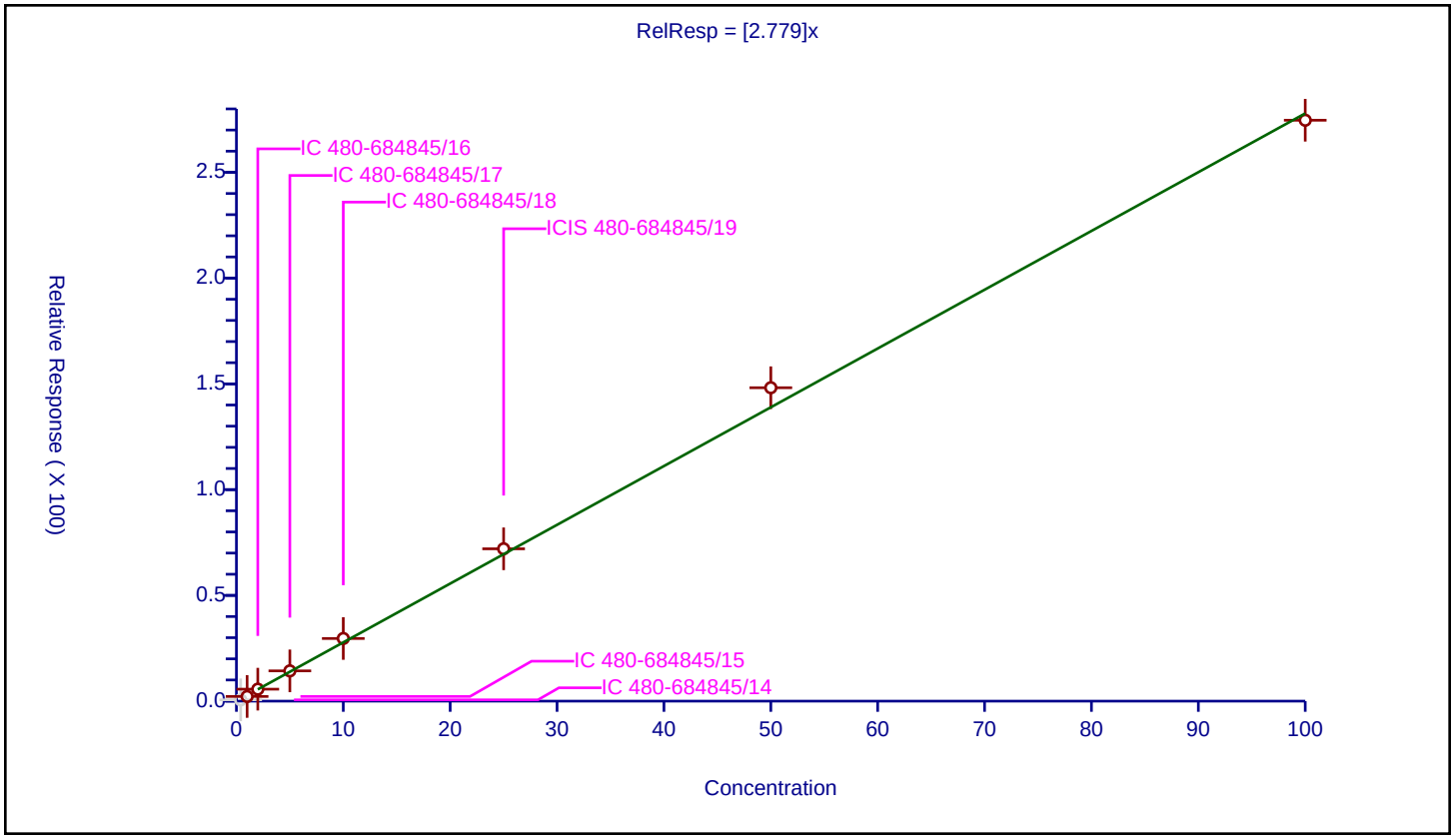
Curve Coefficients

Intercept:	0
Slope:	2.779

Error Coefficients

Standard Error:	688000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.608292	25.0	151572.0	1.520729	N
2	IC 480-684845/15	1.0	2.20713	25.0	145030.0	2.20713	Y
3	IC 480-684845/16	2.0	5.656626	25.0	147367.0	2.828313	Y
4	IC 480-684845/17	5.0	14.306603	25.0	140367.0	2.861321	Y
5	IC 480-684845/18	10.0	29.626871	25.0	133573.0	2.962687	Y
6	ICIS 480-684845/19	25.0	72.020934	25.0	134136.0	2.880837	Y
7	IC 480-684845/20	50.0	148.169513	25.0	128627.0	2.96339	Y
8	IC 480-684845/21	100.0	274.635223	25.0	131176.0	2.746352	Y



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Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

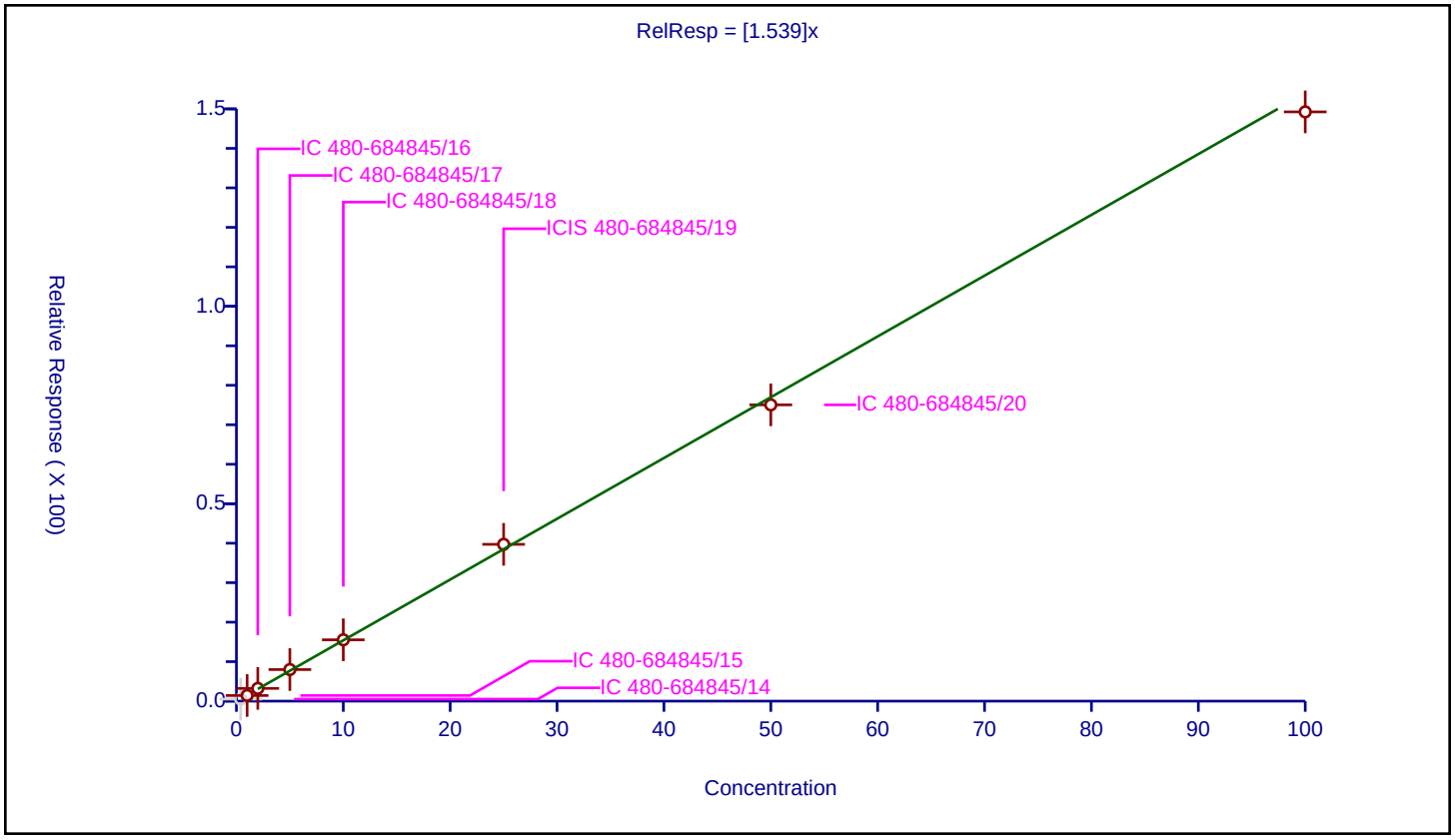
Curve Coefficients

Intercept:	0
Slope:	1.539

Error Coefficients

Standard Error:	369000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.516091	25.0	151572.0	1.290228	N
2	IC 480-684845/15	1.0	1.429359	25.0	145030.0	1.429359	Y
3	IC 480-684845/16	2.0	3.224942	25.0	147367.0	1.612471	Y
4	IC 480-684845/17	5.0	7.998319	25.0	140367.0	1.599664	Y
5	IC 480-684845/18	10.0	15.530085	25.0	133573.0	1.553008	Y
6	ICIS 480-684845/19	25.0	39.712307	25.0	134136.0	1.588492	Y
7	IC 480-684845/20	50.0	75.044897	25.0	128627.0	1.500898	Y
8	IC 480-684845/21	100.0	149.246432	25.0	131176.0	1.492464	Y



10/13/2023
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Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

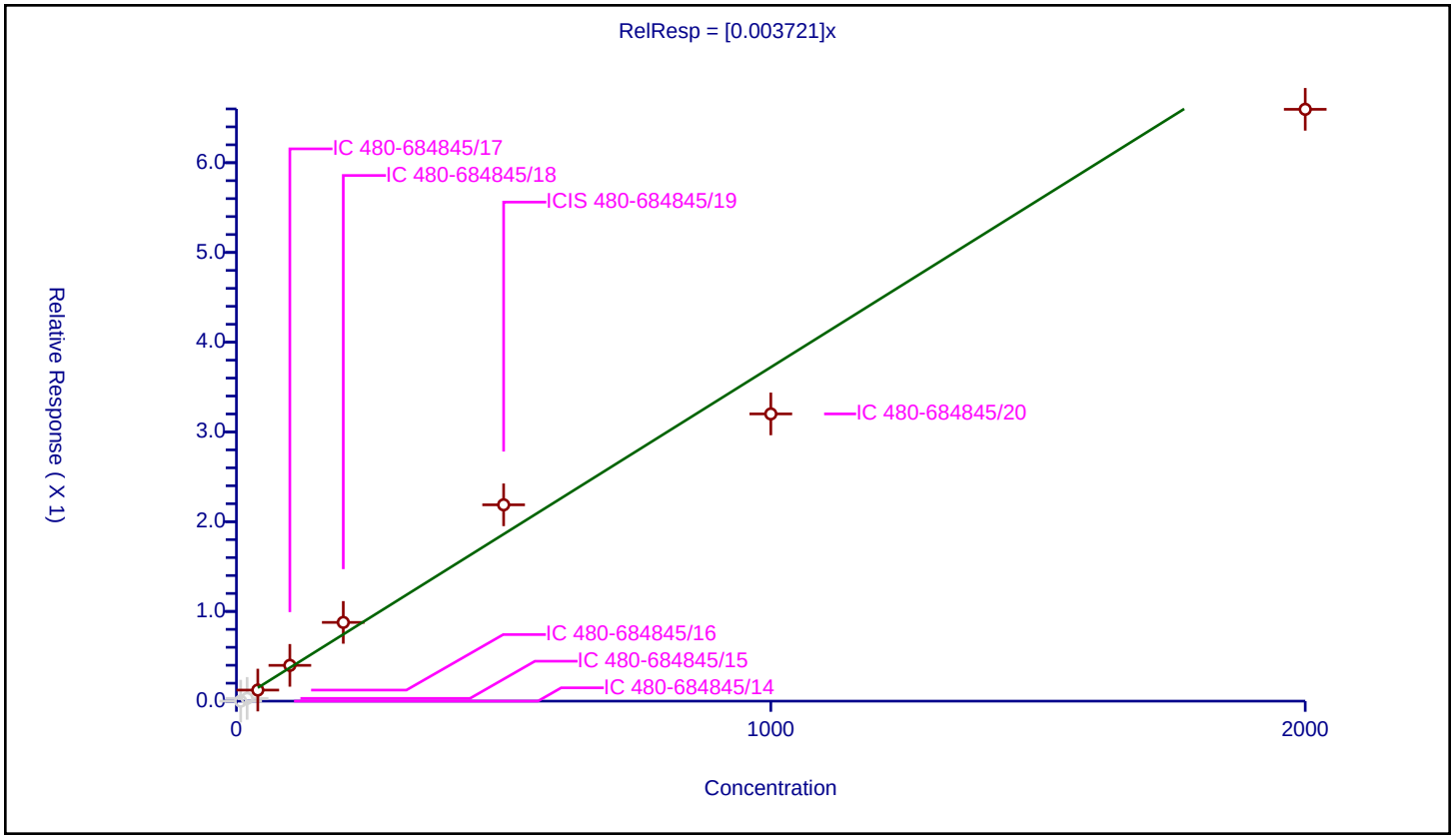
Curve Coefficients

Intercept:	0
Slope:	0.003721

Error Coefficients

Standard Error:	71100
Relative Standard Error:	16.1
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	8.0	0.0	25.0	599584.0	0.0	N
2	IC 480-684845/15	20.0	0.030621	25.0	559256.0	0.001531	N
3	IC 480-684845/16	40.0	0.123192	25.0	592165.0	0.00308	Y
4	IC 480-684845/17	100.0	0.398641	25.0	530239.0	0.003986	Y
5	IC 480-684845/18	200.0	0.877381	25.0	508103.0	0.004387	Y
6	ICIS 480-684845/19	500.0	2.187863	25.0	539602.0	0.004376	Y
7	IC 480-684845/20	1000.0	3.201061	25.0	511065.0	0.003201	Y
8	IC 480-684845/21	2000.0	6.595361	25.0	514100.0	0.003298	Y



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Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

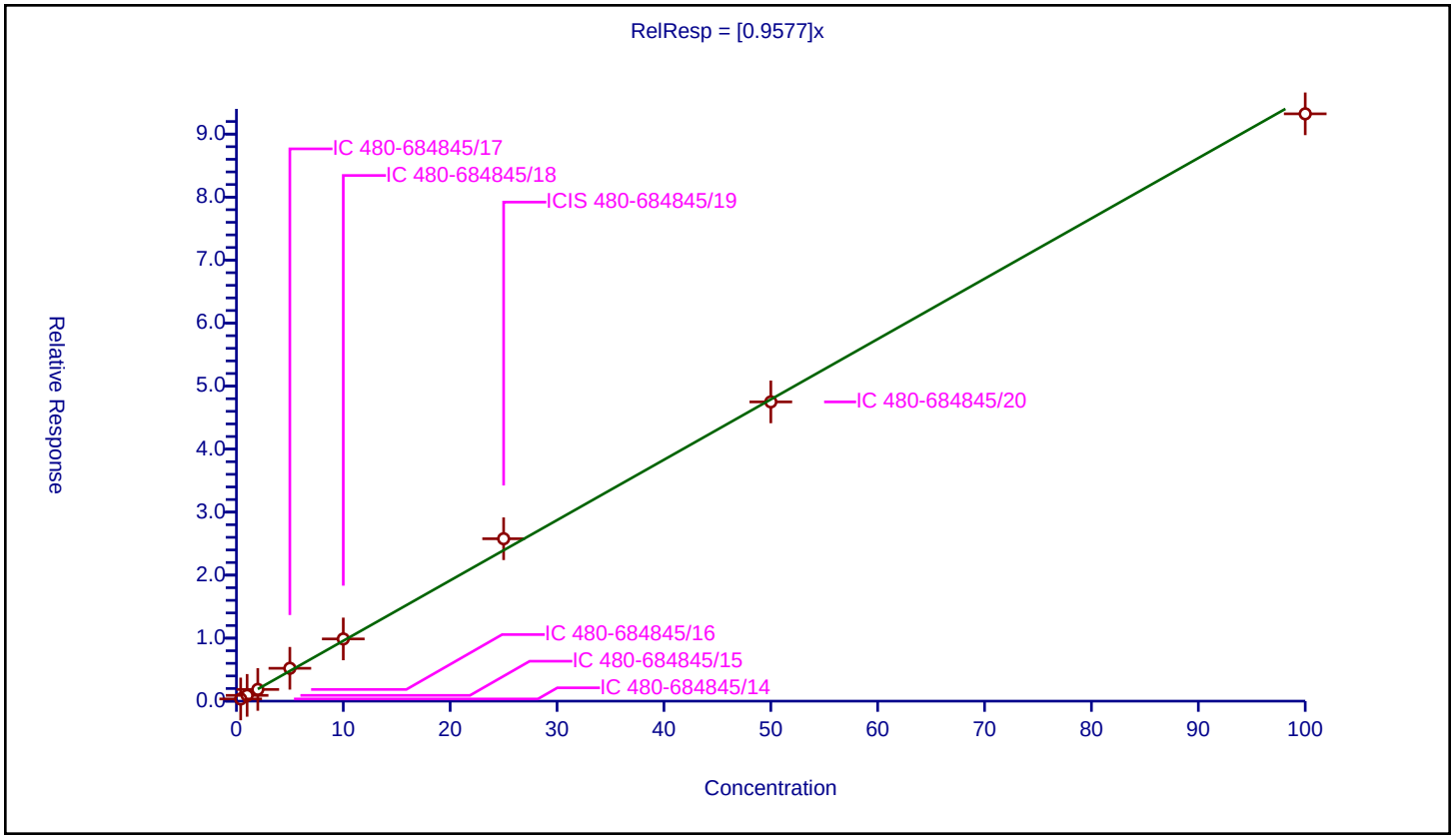
Curve Coefficients

Intercept:	0
Slope:	0.9577

Error Coefficients

Standard Error:	214000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.350329	25.0	151572.0	0.875821	Y
2	IC 480-684845/15	1.0	0.914294	25.0	145030.0	0.914294	Y
3	IC 480-684845/16	2.0	1.857607	25.0	147367.0	0.928804	Y
4	IC 480-684845/17	5.0	5.21401	25.0	140367.0	1.042802	Y
5	IC 480-684845/18	10.0	9.87082	25.0	133573.0	0.987082	Y
6	ICIS 480-684845/19	25.0	25.77496	25.0	134136.0	1.030998	Y
7	IC 480-684845/20	50.0	47.497221	25.0	128627.0	0.949944	Y
8	IC 480-684845/21	100.0	93.219034	25.0	131176.0	0.93219	Y



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Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

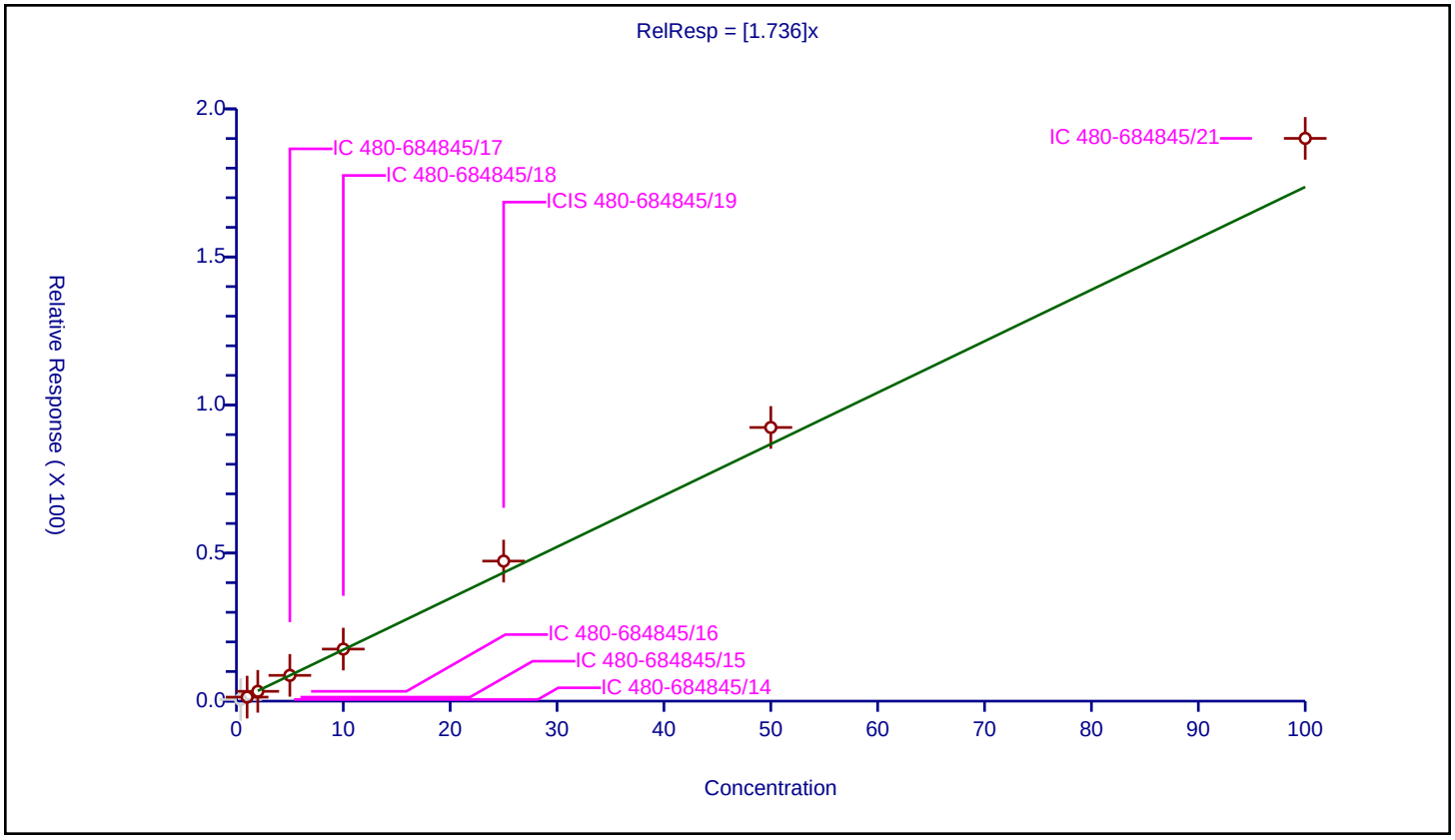
Curve Coefficients

Intercept:	0
Slope:	1.736

Error Coefficients

Standard Error:	465000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.551388	25.0	151572.0	1.37847	N
2	IC 480-684845/15	1.0	1.357305	25.0	145030.0	1.357305	Y
3	IC 480-684845/16	2.0	3.31638	25.0	147367.0	1.65819	Y
4	IC 480-684845/17	5.0	8.701119	25.0	140367.0	1.740224	Y
5	IC 480-684845/18	10.0	17.582895	25.0	133573.0	1.758289	Y
6	ICIS 480-684845/19	25.0	47.296773	25.0	134136.0	1.891871	Y
7	IC 480-684845/20	50.0	92.419749	25.0	128627.0	1.848395	Y
8	IC 480-684845/21	100.0	190.044863	25.0	131176.0	1.900449	Y



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Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

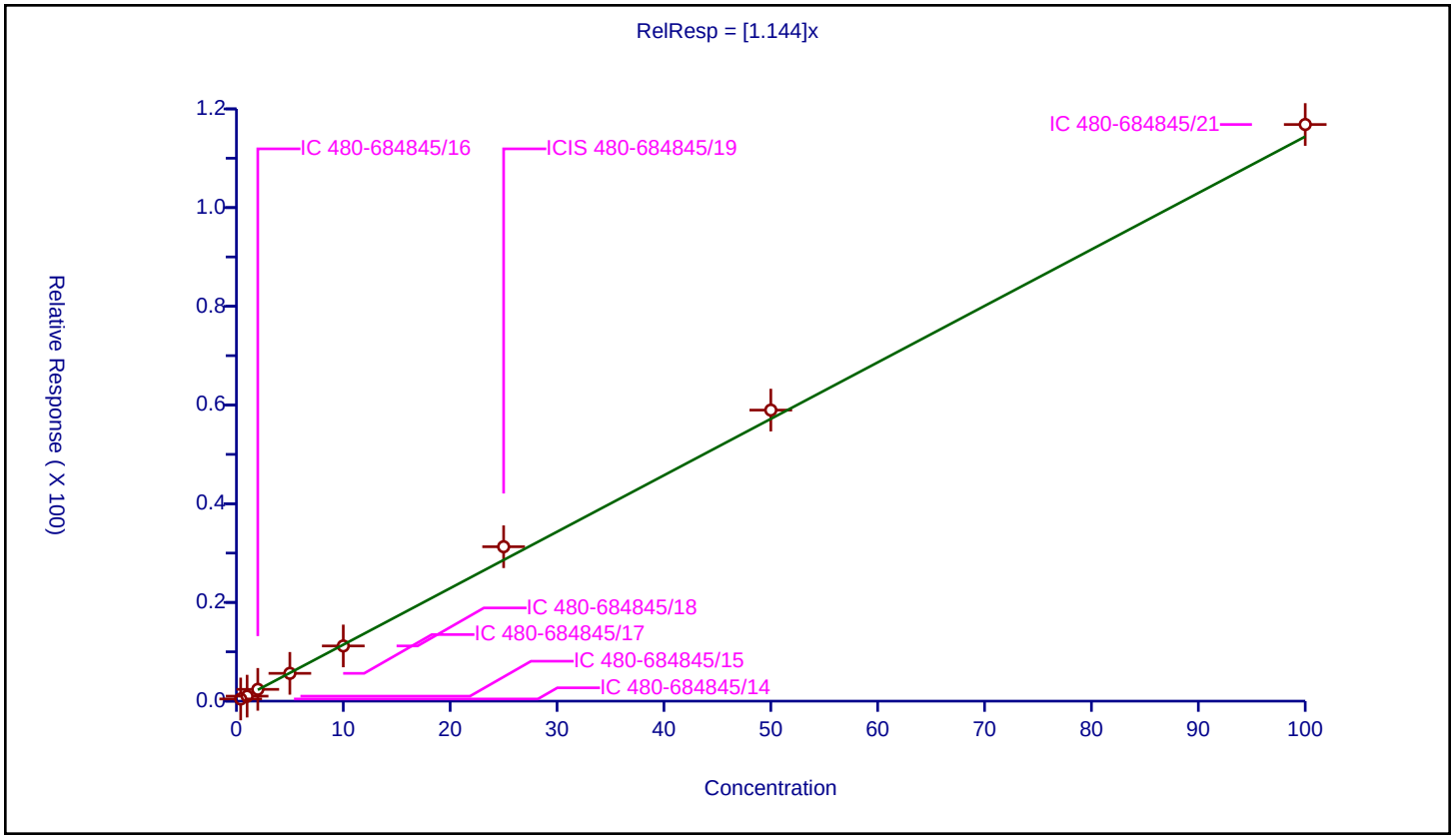
Curve Coefficients

Intercept:	0
Slope:	1.144

Error Coefficients

Standard Error:	267000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.441374	25.0	151572.0	1.103436	Y
2	IC 480-684845/15	1.0	1.009102	25.0	145030.0	1.009102	Y
3	IC 480-684845/16	2.0	2.388594	25.0	147367.0	1.194297	Y
4	IC 480-684845/17	5.0	5.63309	25.0	140367.0	1.126618	Y
5	IC 480-684845/18	10.0	11.186205	25.0	133573.0	1.118621	Y
6	ICIS 480-684845/19	25.0	31.28448	25.0	134136.0	1.251379	Y
7	IC 480-684845/20	50.0	58.972455	25.0	128627.0	1.179449	Y
8	IC 480-684845/21	100.0	116.838255	25.0	131176.0	1.168383	Y



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Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

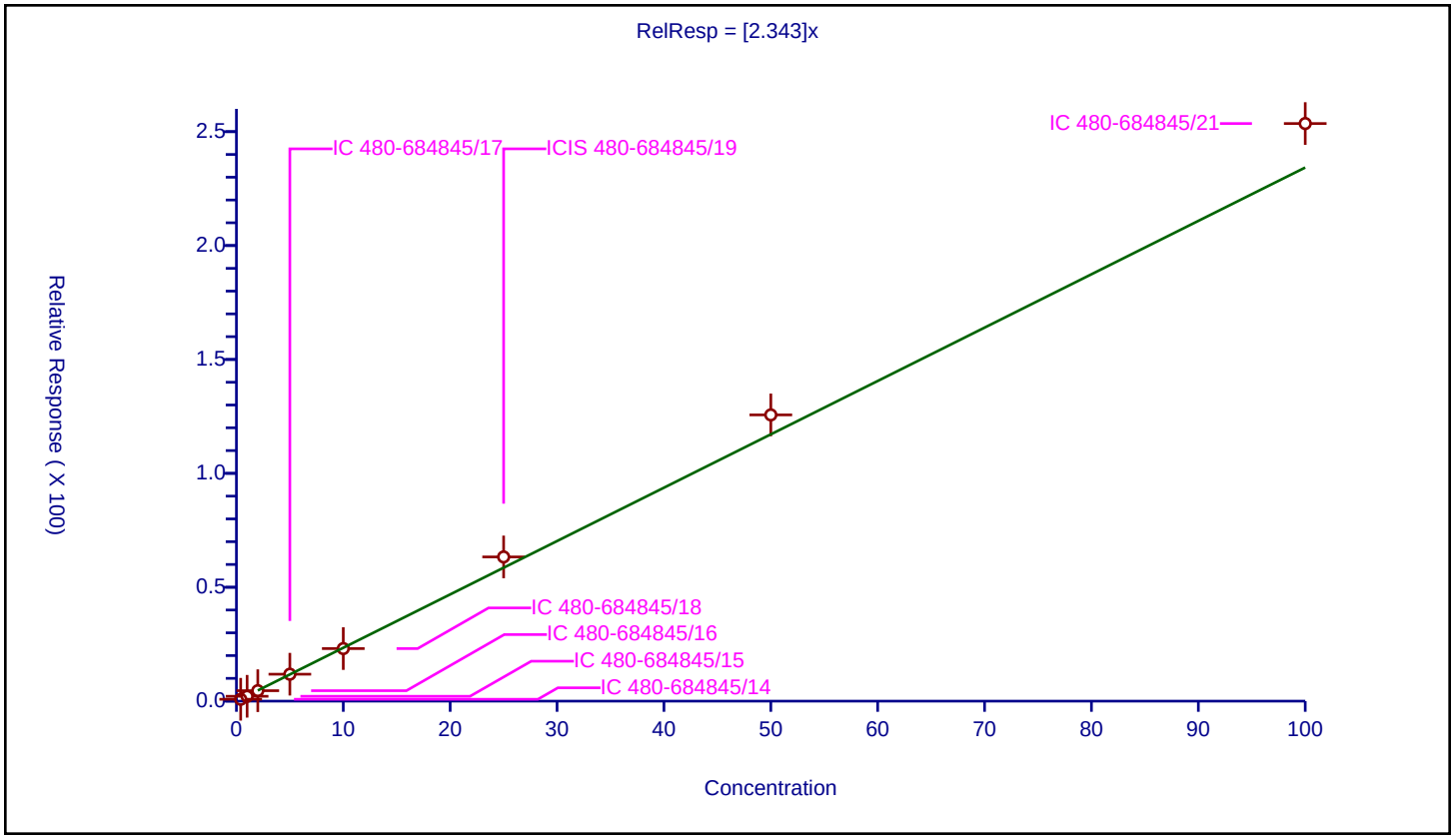
Curve Coefficients

Intercept:	0
Slope:	2.343

Error Coefficients

Standard Error:	576000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.824196	25.0	151572.0	2.060489	Y
2	IC 480-684845/15	1.0	2.12887	25.0	145030.0	2.12887	Y
3	IC 480-684845/16	2.0	4.591767	25.0	147367.0	2.295884	Y
4	IC 480-684845/17	5.0	11.831128	25.0	140367.0	2.366226	Y
5	IC 480-684845/18	10.0	23.073338	25.0	133573.0	2.307334	Y
6	ICIS 480-684845/19	25.0	63.311863	25.0	134136.0	2.532475	Y
7	IC 480-684845/20	50.0	125.666073	25.0	128627.0	2.513321	Y
8	IC 480-684845/21	100.0	253.574015	25.0	131176.0	2.53574	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

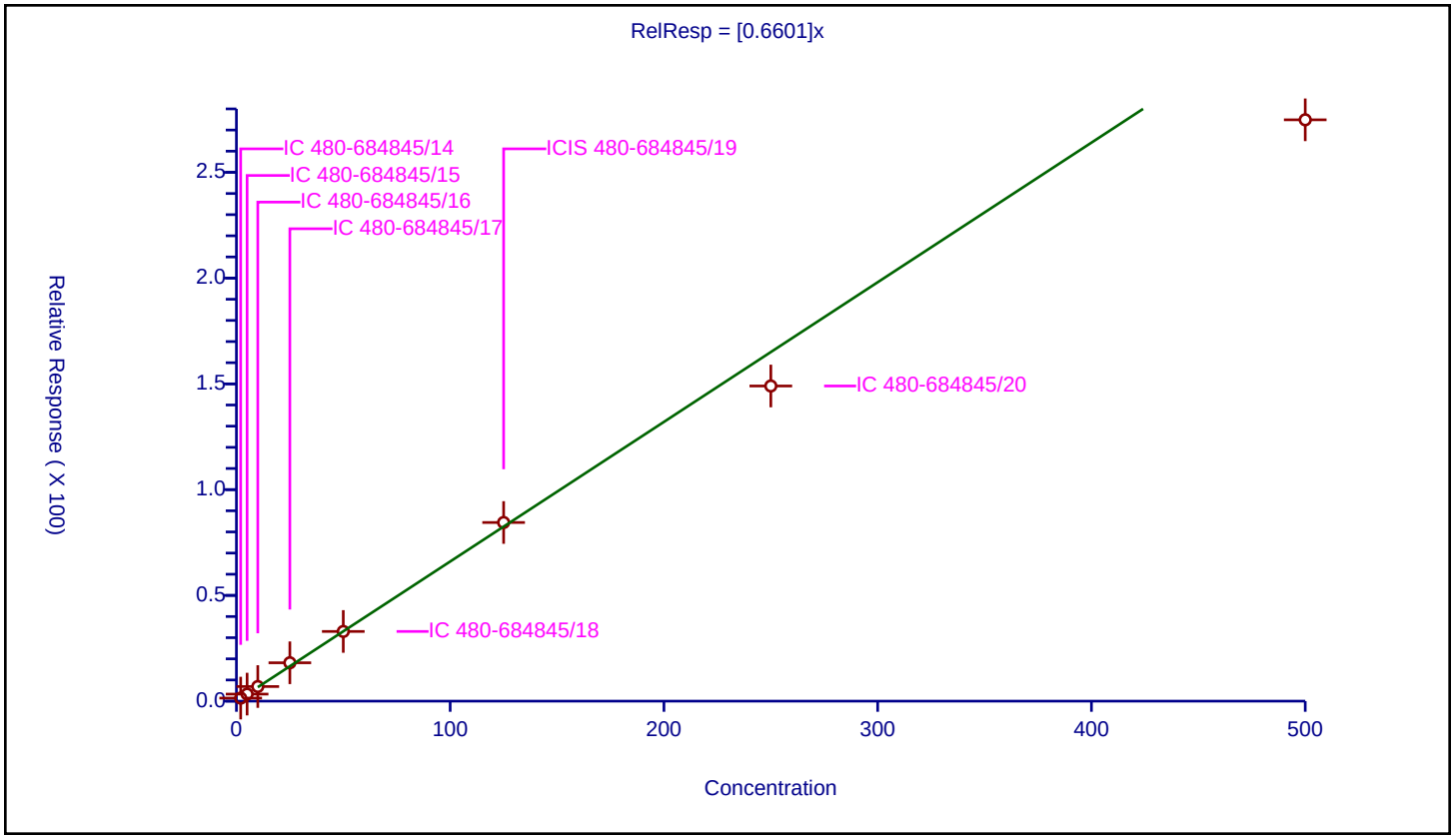
Curve Coefficients

Intercept:	0
Slope:	0.6601

Error Coefficients

Standard Error:	2540000
Relative Standard Error:	9.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	2.0	1.436246	25.0	599584.0	0.718123	Y
2	IC 480-684845/15	5.0	3.329245	25.0	559256.0	0.665849	Y
3	IC 480-684845/16	10.0	6.910912	25.0	592165.0	0.691091	Y
4	IC 480-684845/17	25.0	18.138707	25.0	530239.0	0.725548	Y
5	IC 480-684845/18	50.0	32.949028	25.0	508103.0	0.658981	Y
6	ICIS 480-684845/19	125.0	84.463456	25.0	539602.0	0.675708	Y
7	IC 480-684845/20	250.0	148.99548	25.0	511065.0	0.595982	Y
8	IC 480-684845/21	500.0	274.840012	25.0	514100.0	0.54968	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

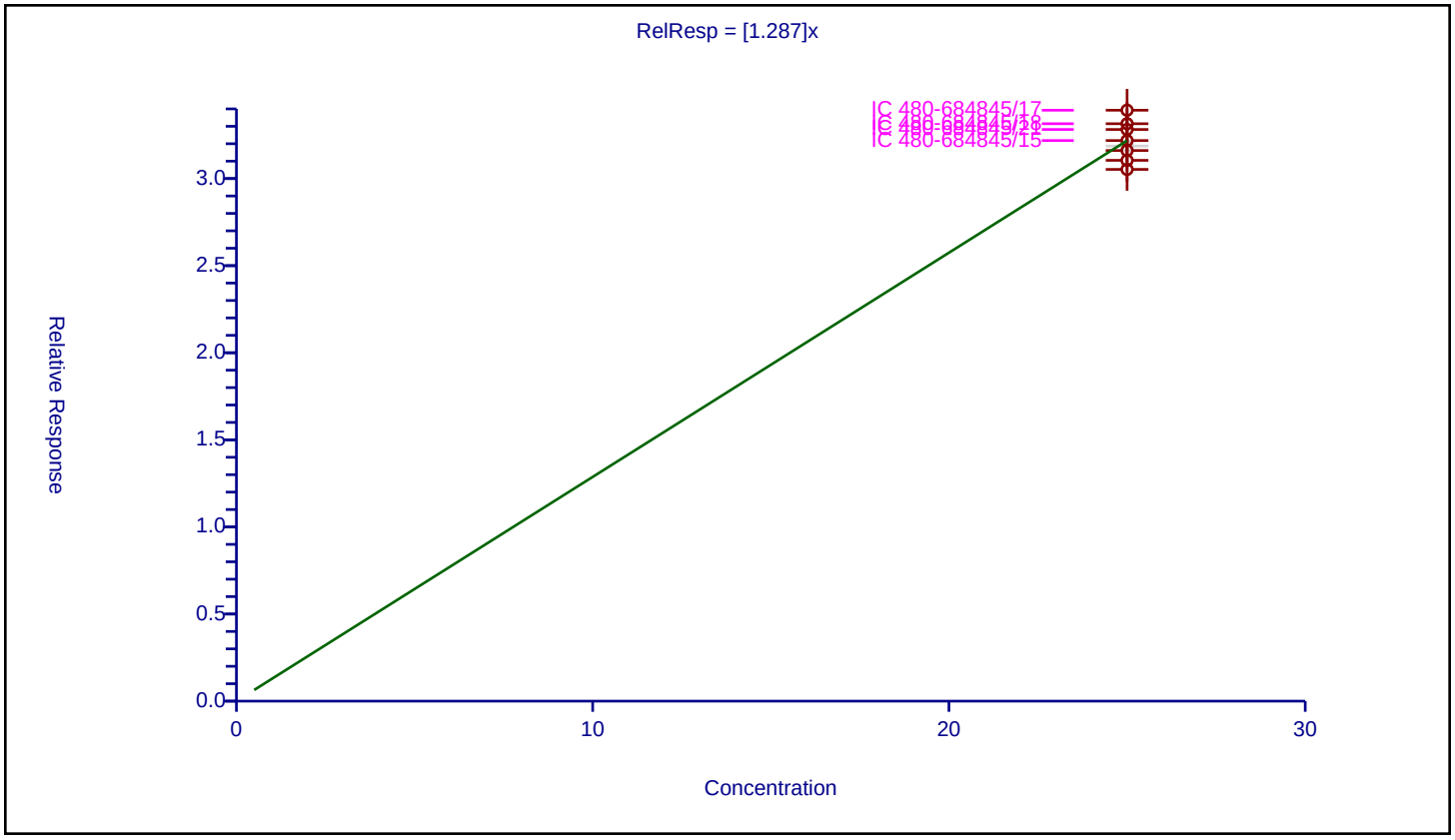
Curve Coefficients

Intercept:	0
Slope:	1.287

Error Coefficients

Standard Error:	746000
Relative Standard Error:	3.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	25.0	31.867928	25.0	599584.0	1.274717	N
2	IC 480-684845/15	25.0	32.181595	25.0	559256.0	1.287264	Y
3	IC 480-684845/16	25.0	31.045739	25.0	592165.0	1.24183	Y
4	IC 480-684845/17	25.0	33.92357	25.0	530239.0	1.356943	Y
5	IC 480-684845/18	25.0	33.148791	25.0	508103.0	1.325952	Y
6	ICIS 480-684845/19	25.0	30.525647	25.0	539602.0	1.221026	Y
7	IC 480-684845/20	25.0	31.609531	25.0	511065.0	1.264381	Y
8	IC 480-684845/21	25.0	32.818323	25.0	514100.0	1.312733	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

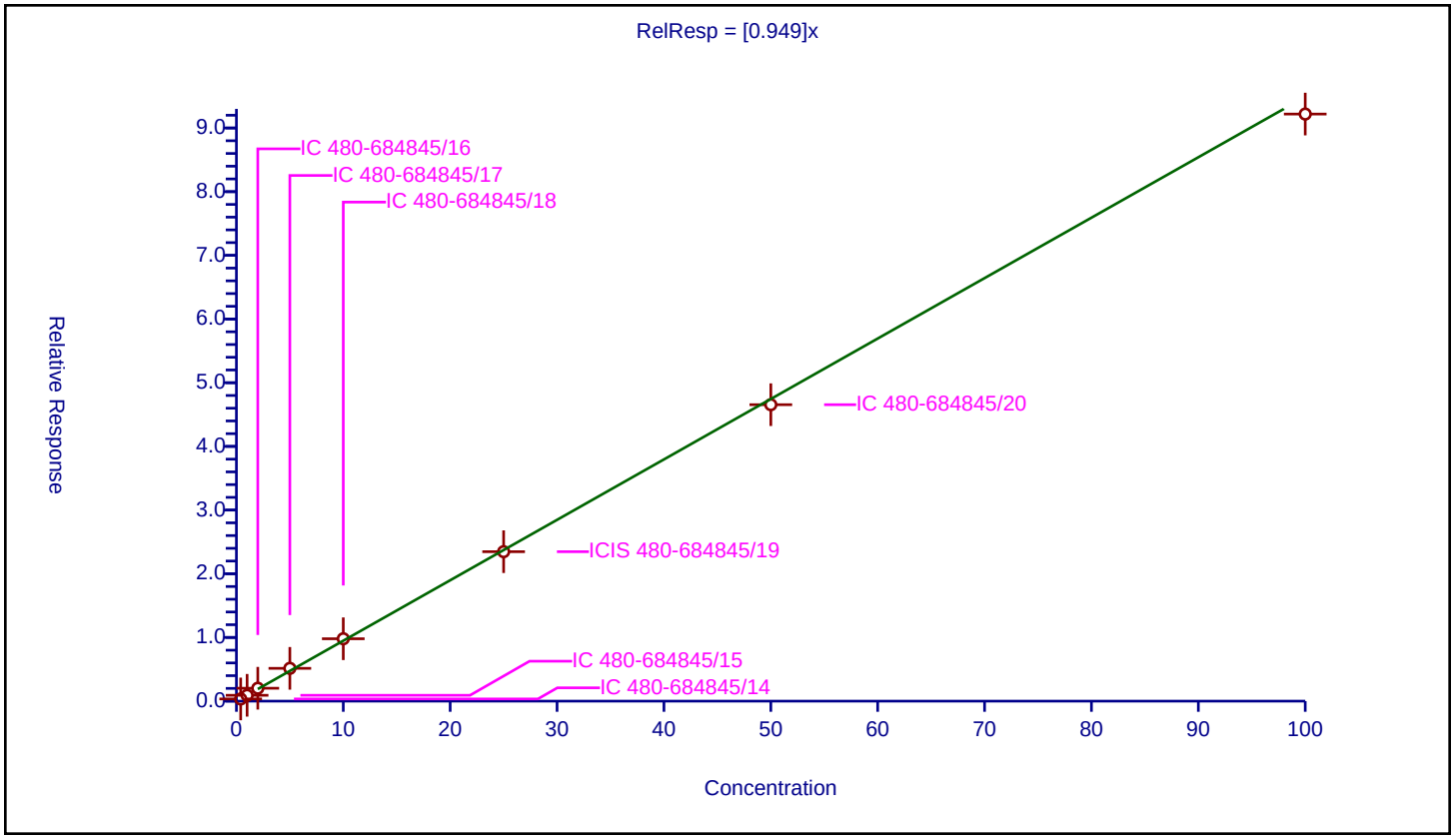
Curve Coefficients

Intercept:	0
Slope:	0.949

Error Coefficients

Standard Error:	829000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.343863	25.0	599584.0	0.859659	Y
2	IC 480-684845/15	1.0	0.916664	25.0	559256.0	0.916664	Y
3	IC 480-684845/16	2.0	2.027053	25.0	592165.0	1.013527	Y
4	IC 480-684845/17	5.0	5.151922	25.0	530239.0	1.030384	Y
5	IC 480-684845/18	10.0	9.798407	25.0	508103.0	0.979841	Y
6	ICIS 480-684845/19	25.0	23.467621	25.0	539602.0	0.938705	Y
7	IC 480-684845/20	50.0	46.549901	25.0	511065.0	0.930998	Y
8	IC 480-684845/21	100.0	92.186685	25.0	514100.0	0.921867	Y



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Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

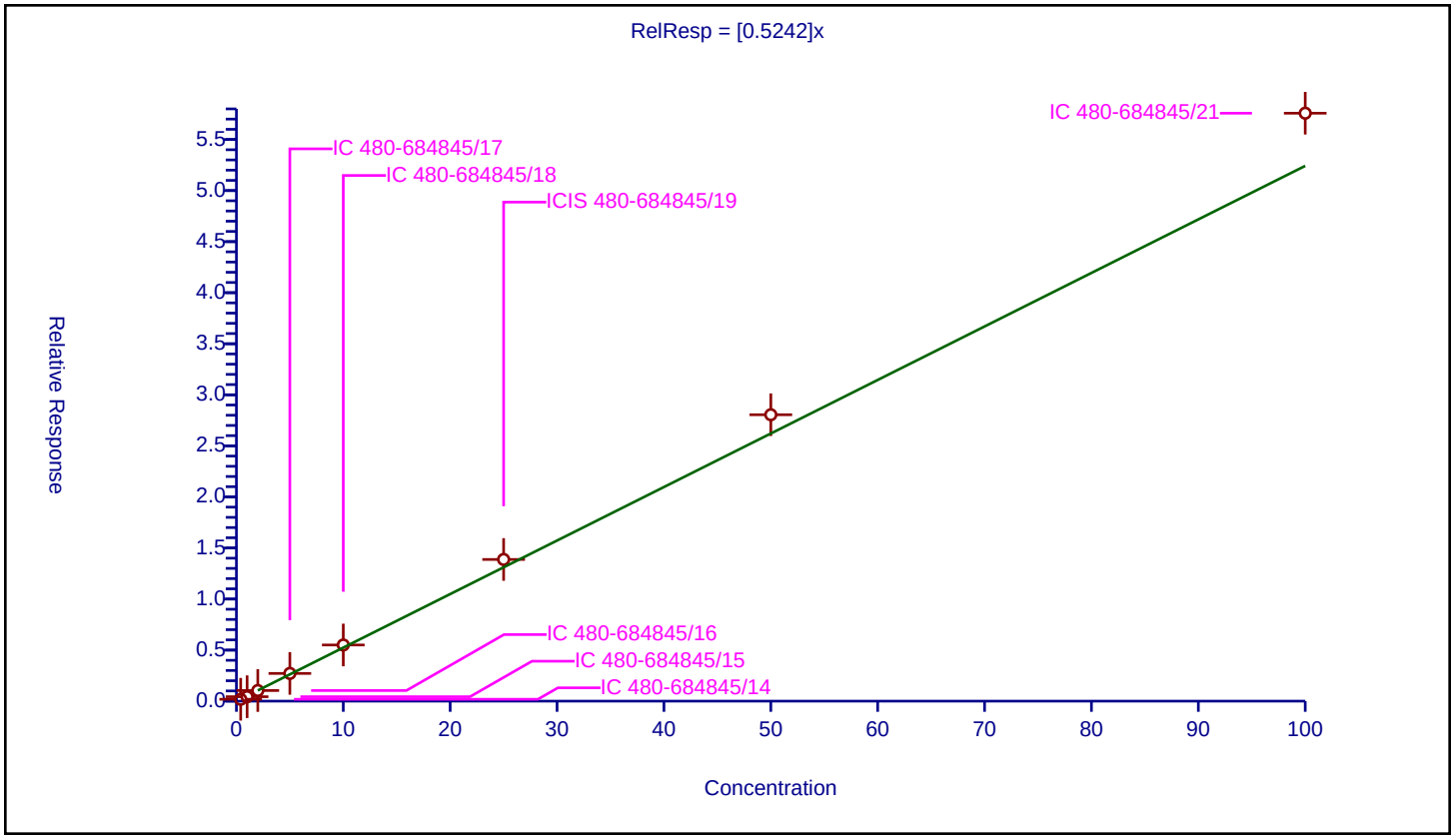
Curve Coefficients

Intercept:	0
Slope:	0.5242

Error Coefficients

Standard Error:	512000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.182585	25.0	599584.0	0.456462	Y
2	IC 480-684845/15	1.0	0.43312	25.0	559256.0	0.43312	Y
3	IC 480-684845/16	2.0	1.038731	25.0	592165.0	0.519365	Y
4	IC 480-684845/17	5.0	2.714012	25.0	530239.0	0.542802	Y
5	IC 480-684845/18	10.0	5.500164	25.0	508103.0	0.550016	Y
6	ICIS 480-684845/19	25.0	13.874532	25.0	539602.0	0.554981	Y
7	IC 480-684845/20	50.0	28.049563	25.0	511065.0	0.560991	Y
8	IC 480-684845/21	100.0	57.577709	25.0	514100.0	0.575777	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

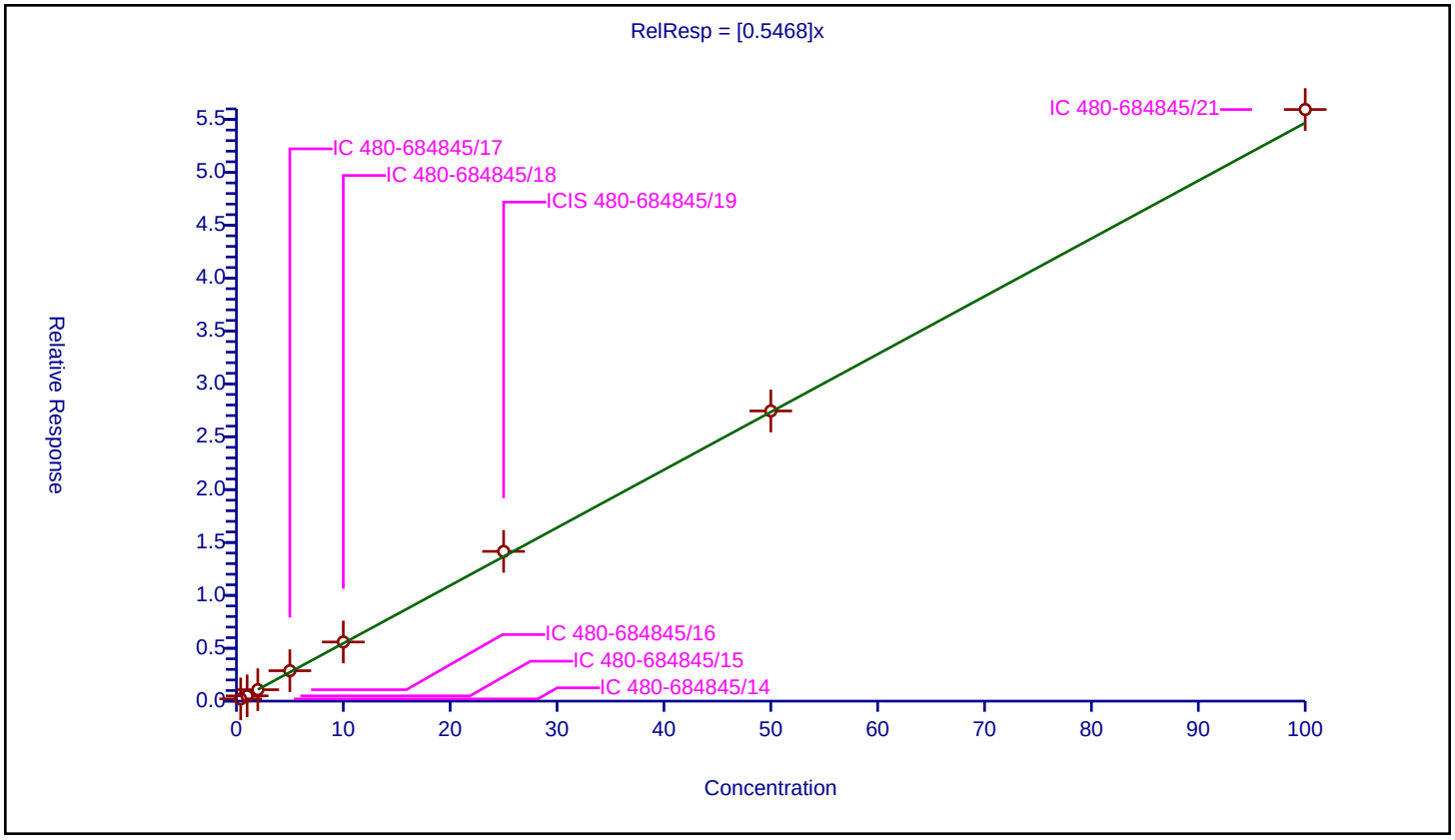
Curve Coefficients

Intercept:	0
Slope:	0.5468

Error Coefficients

Standard Error:	500000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.210312	25.0	599584.0	0.525781	Y
2	IC 480-684845/15	1.0	0.498207	25.0	559256.0	0.498207	Y
3	IC 480-684845/16	2.0	1.082215	25.0	592165.0	0.541108	Y
4	IC 480-684845/17	5.0	2.876863	25.0	530239.0	0.575373	Y
5	IC 480-684845/18	10.0	5.592419	25.0	508103.0	0.559242	Y
6	ICIS 480-684845/19	25.0	14.159881	25.0	539602.0	0.566395	Y
7	IC 480-684845/20	50.0	27.438193	25.0	511065.0	0.548764	Y
8	IC 480-684845/21	100.0	55.942667	25.0	514100.0	0.559427	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

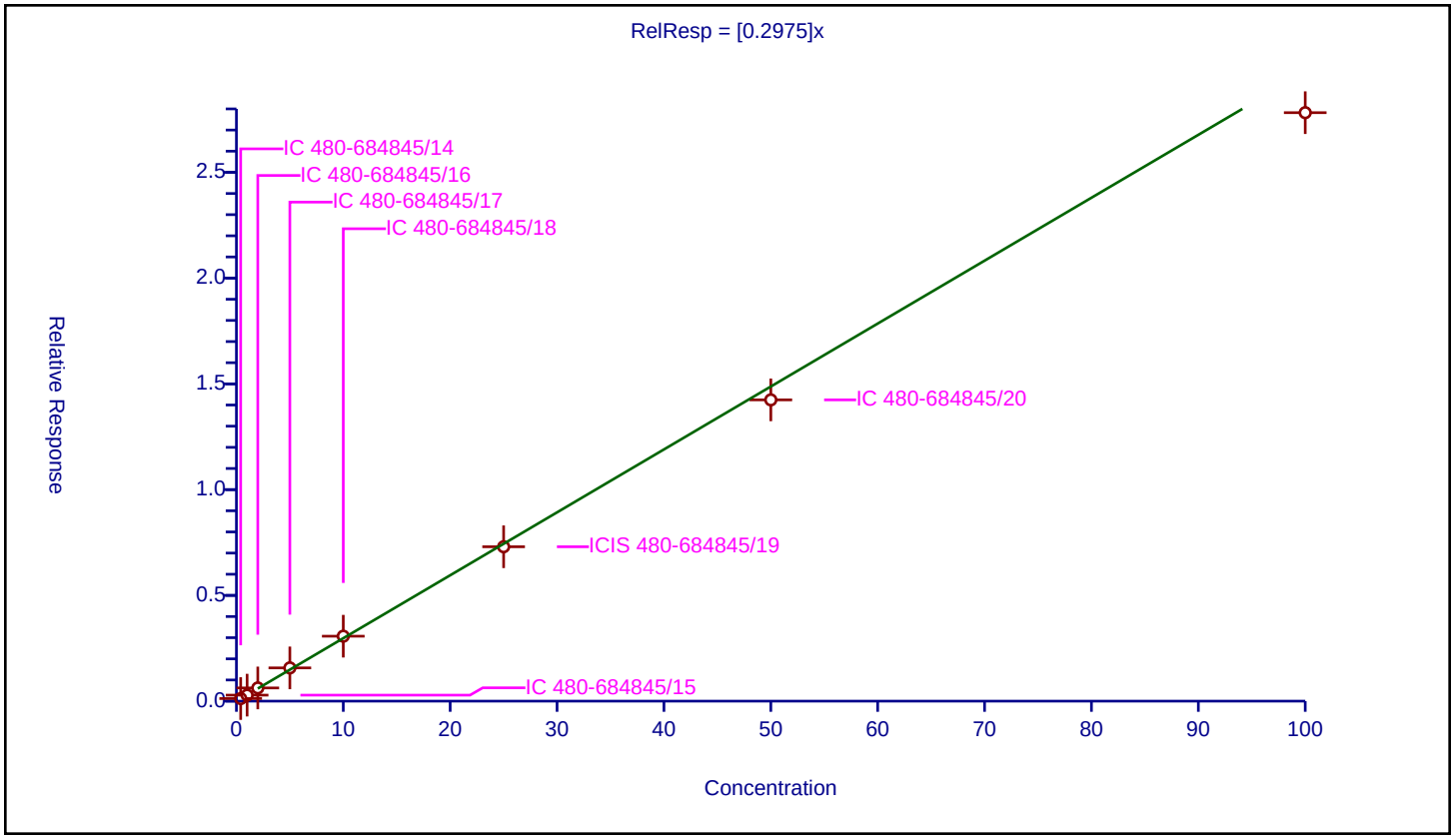
Curve Coefficients

Intercept:	0
Slope:	0.2975

Error Coefficients

Standard Error:	251000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.123044	25.0	599584.0	0.307609	Y
2	IC 480-684845/15	1.0	0.284083	25.0	559256.0	0.284083	Y
3	IC 480-684845/16	2.0	0.623517	25.0	592165.0	0.311759	Y
4	IC 480-684845/17	5.0	1.571603	25.0	530239.0	0.314321	Y
5	IC 480-684845/18	10.0	3.070785	25.0	508103.0	0.307078	Y
6	ICIS 480-684845/19	25.0	7.298713	25.0	539602.0	0.291949	Y
7	IC 480-684845/20	50.0	14.243736	25.0	511065.0	0.284875	Y
8	IC 480-684845/21	100.0	27.821095	25.0	514100.0	0.278211	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

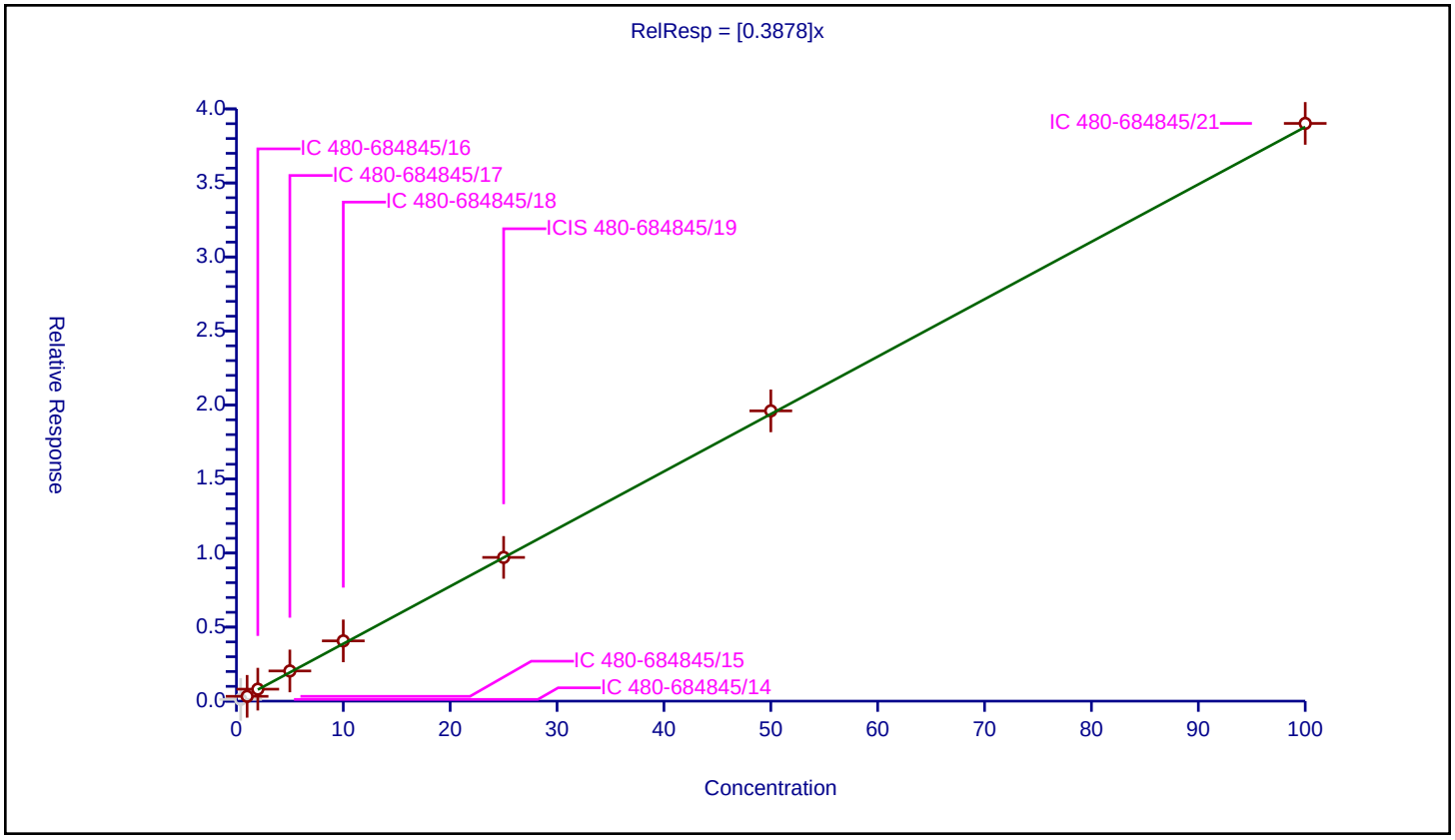
Curve Coefficients

Intercept:	0
Slope:	0.3878

Error Coefficients

Standard Error:	378000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.117373	25.0	599584.0	0.293433	N
2	IC 480-684845/15	1.0	0.32503	25.0	559256.0	0.32503	Y
3	IC 480-684845/16	2.0	0.808094	25.0	592165.0	0.404047	Y
4	IC 480-684845/17	5.0	2.039175	25.0	530239.0	0.407835	Y
5	IC 480-684845/18	10.0	4.070681	25.0	508103.0	0.407068	Y
6	ICIS 480-684845/19	25.0	9.707849	25.0	539602.0	0.388314	Y
7	IC 480-684845/20	50.0	19.604209	25.0	511065.0	0.392084	Y
8	IC 480-684845/21	100.0	39.0195	25.0	514100.0	0.390195	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

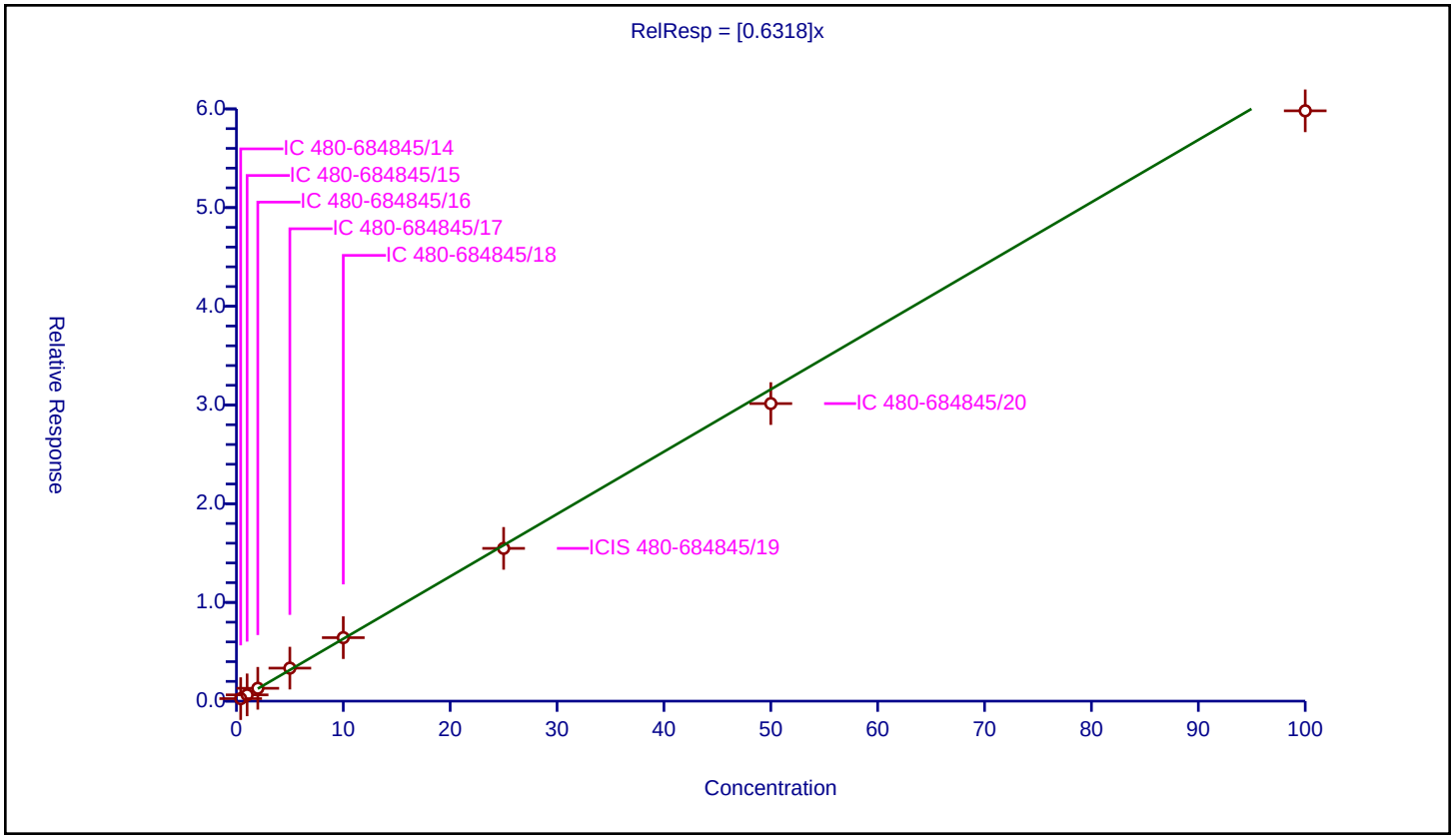
Curve Coefficients

Intercept:	0
Slope:	0.6318

Error Coefficients

Standard Error:	538000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.254301	25.0	599584.0	0.635753	Y
2	IC 480-684845/15	1.0	0.634995	25.0	559256.0	0.634995	Y
3	IC 480-684845/16	2.0	1.302086	25.0	592165.0	0.651043	Y
4	IC 480-684845/17	5.0	3.34552	25.0	530239.0	0.669104	Y
5	IC 480-684845/18	10.0	6.431324	25.0	508103.0	0.643132	Y
6	ICIS 480-684845/19	25.0	15.476916	25.0	539602.0	0.619077	Y
7	IC 480-684845/20	50.0	30.146948	25.0	511065.0	0.602939	Y
8	IC 480-684845/21	100.0	59.804659	25.0	514100.0	0.598047	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

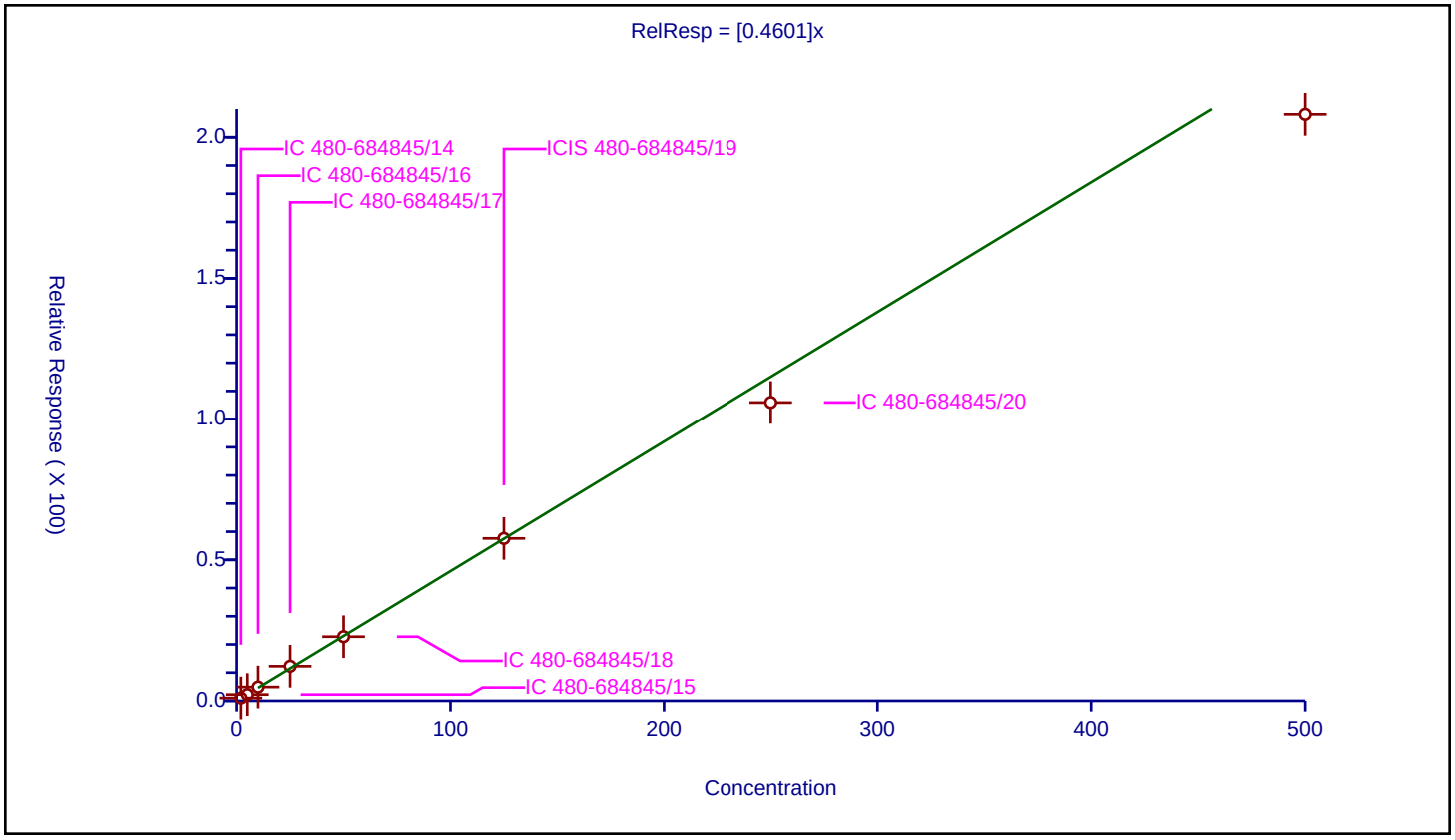
Curve Coefficients

Intercept:	0
Slope:	0.4601

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	2.0	1.001194	25.0	599584.0	0.500597	Y
2	IC 480-684845/15	5.0	2.22197	25.0	559256.0	0.444394	Y
3	IC 480-684845/16	10.0	4.895342	25.0	592165.0	0.489534	Y
4	IC 480-684845/17	25.0	12.265507	25.0	530239.0	0.49062	Y
5	IC 480-684845/18	50.0	22.745093	25.0	508103.0	0.454902	Y
6	ICIS 480-684845/19	125.0	57.62335	25.0	539602.0	0.460987	Y
7	IC 480-684845/20	250.0	105.913974	25.0	511065.0	0.423656	Y
8	IC 480-684845/21	500.0	208.121669	25.0	514100.0	0.416243	Y



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Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

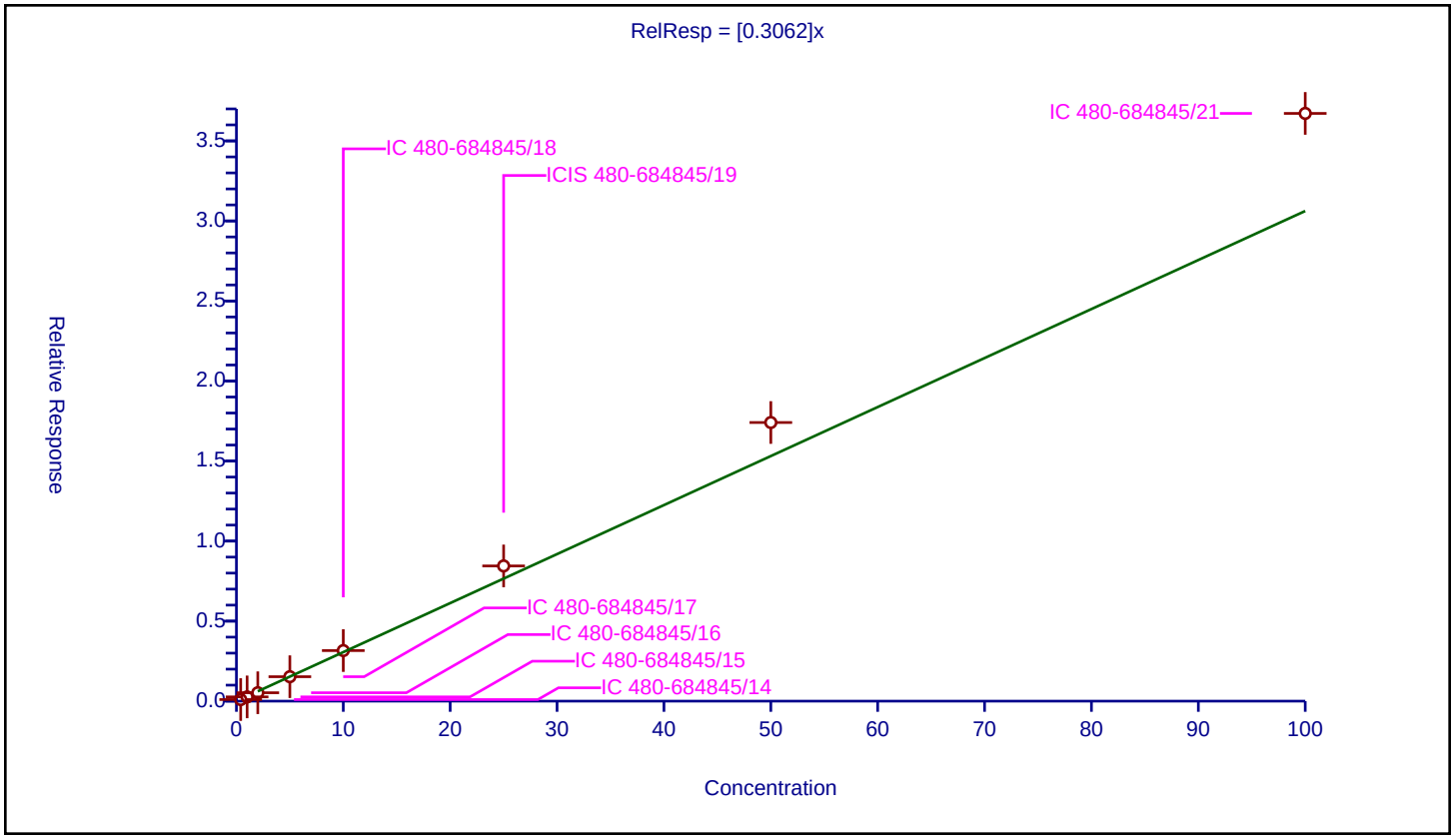
Curve Coefficients

Intercept:	0
Slope:	0.3062

Error Coefficients

Standard Error:	324000
Relative Standard Error:	14.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.098652	25.0	599584.0	0.246629	Y
2	IC 480-684845/15	1.0	0.265576	25.0	559256.0	0.265576	Y
3	IC 480-684845/16	2.0	0.525614	25.0	592165.0	0.262807	Y
4	IC 480-684845/17	5.0	1.527283	25.0	530239.0	0.305457	Y
5	IC 480-684845/18	10.0	3.159546	25.0	508103.0	0.315955	Y
6	ICIS 480-684845/19	25.0	8.447244	25.0	539602.0	0.33789	Y
7	IC 480-684845/20	50.0	17.407032	25.0	511065.0	0.348141	Y
8	IC 480-684845/21	100.0	36.717322	25.0	514100.0	0.367173	Y



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Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

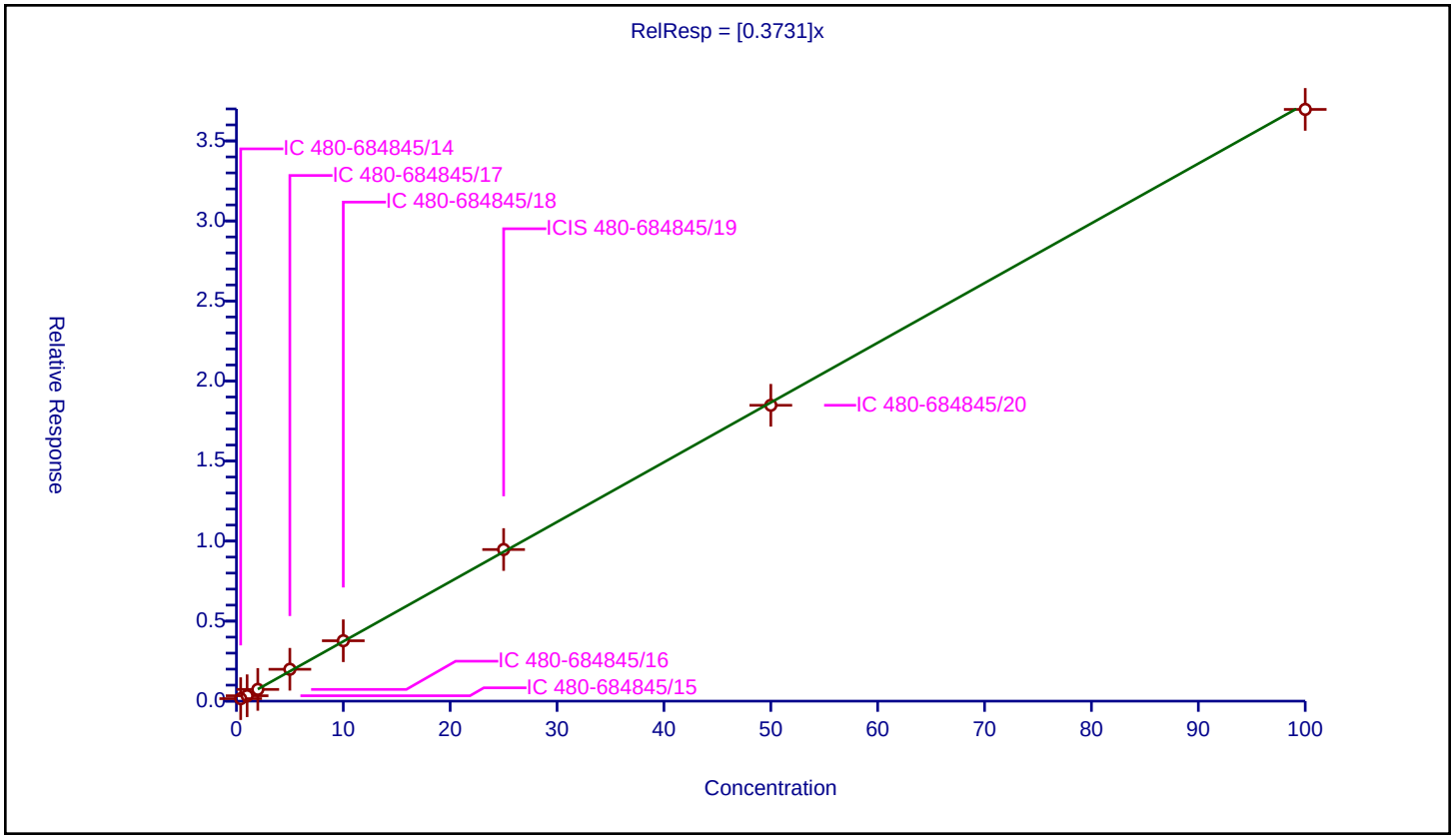
Curve Coefficients

Intercept:	0
Slope:	0.3731

Error Coefficients

Standard Error:	332000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.155233	25.0	599584.0	0.388082	Y
2	IC 480-684845/15	1.0	0.337189	25.0	559256.0	0.337189	Y
3	IC 480-684845/16	2.0	0.732482	25.0	592165.0	0.366241	Y
4	IC 480-684845/17	5.0	1.990093	25.0	530239.0	0.398019	Y
5	IC 480-684845/18	10.0	3.772906	25.0	508103.0	0.377291	Y
6	ICIS 480-684845/19	25.0	9.472074	25.0	539602.0	0.378883	Y
7	IC 480-684845/20	50.0	18.484537	25.0	511065.0	0.369691	Y
8	IC 480-684845/21	100.0	36.968537	25.0	514100.0	0.369685	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

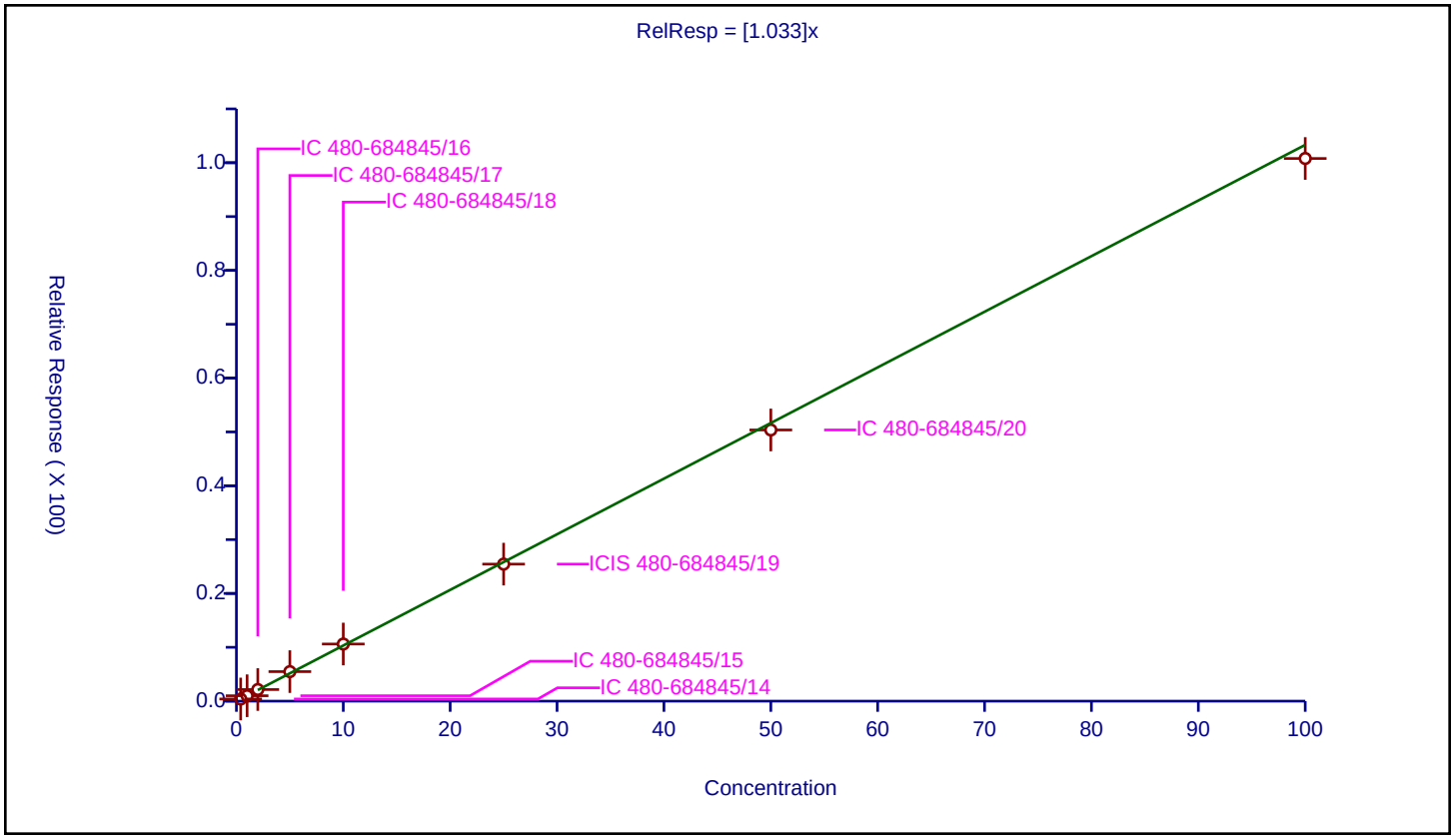
Curve Coefficients

Intercept:	0
Slope:	1.033

Error Coefficients

Standard Error:	904000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.398234	25.0	599584.0	0.995586	Y
2	IC 480-684845/15	1.0	1.001643	25.0	559256.0	1.001643	Y
3	IC 480-684845/16	2.0	2.154974	25.0	592165.0	1.077487	Y
4	IC 480-684845/17	5.0	5.481962	25.0	530239.0	1.096392	Y
5	IC 480-684845/18	10.0	10.607249	25.0	508103.0	1.060725	Y
6	ICIS 480-684845/19	25.0	25.451166	25.0	539602.0	1.018047	Y
7	IC 480-684845/20	50.0	50.367468	25.0	511065.0	1.007349	Y
8	IC 480-684845/21	100.0	100.789389	25.0	514100.0	1.007894	Y



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Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

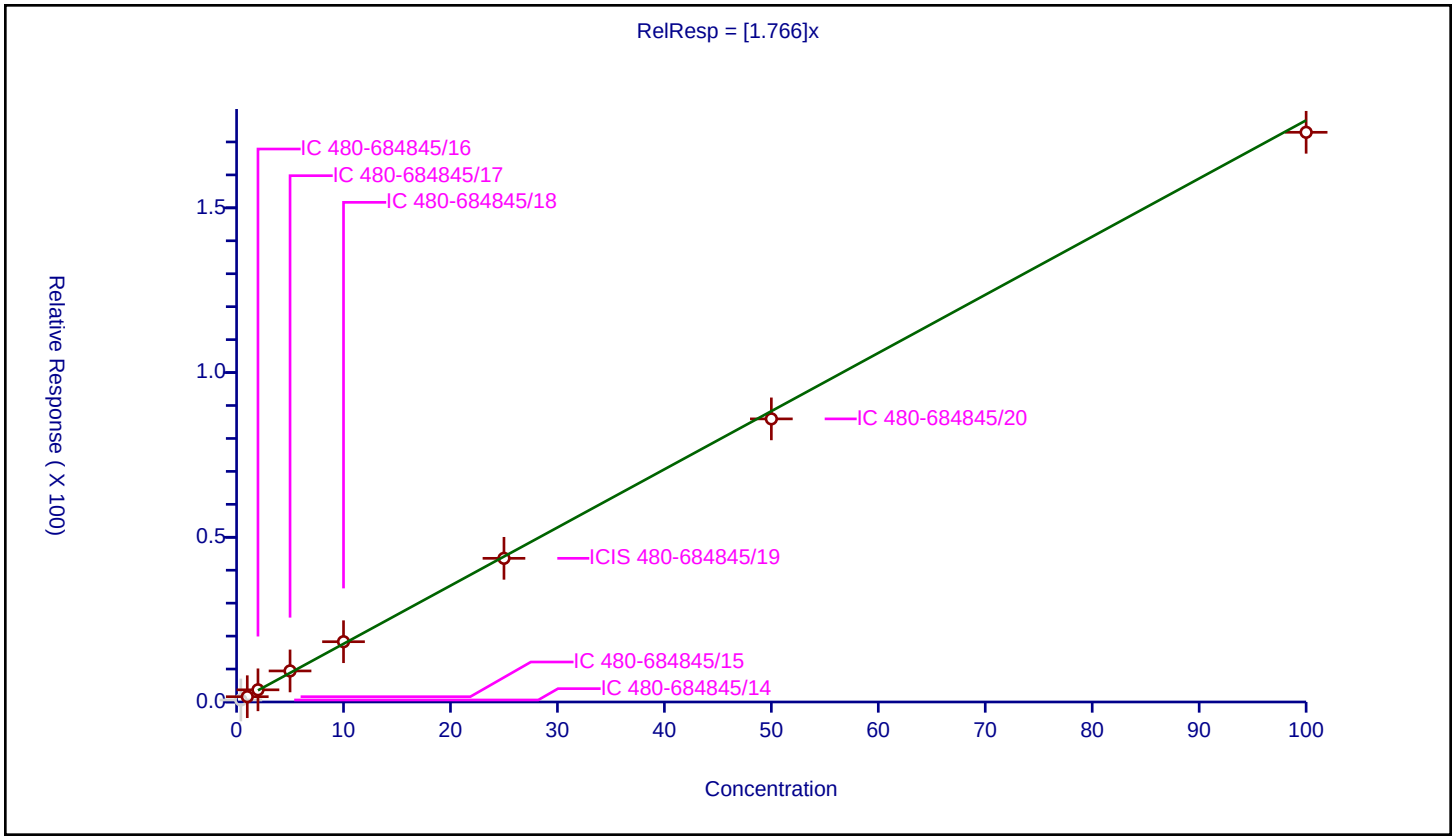
Curve Coefficients

Intercept:	0
Slope:	1.766

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.612425	25.0	599584.0	1.531062	N
2	IC 480-684845/15	1.0	1.603112	25.0	559256.0	1.603112	Y
3	IC 480-684845/16	2.0	3.698167	25.0	592165.0	1.849083	Y
4	IC 480-684845/17	5.0	9.426692	25.0	530239.0	1.885338	Y
5	IC 480-684845/18	10.0	18.297668	25.0	508103.0	1.829767	Y
6	ICIS 480-684845/19	25.0	43.610522	25.0	539602.0	1.744421	Y
7	IC 480-684845/20	50.0	85.935155	25.0	511065.0	1.718703	Y
8	IC 480-684845/21	100.0	172.93119	25.0	514100.0	1.729312	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

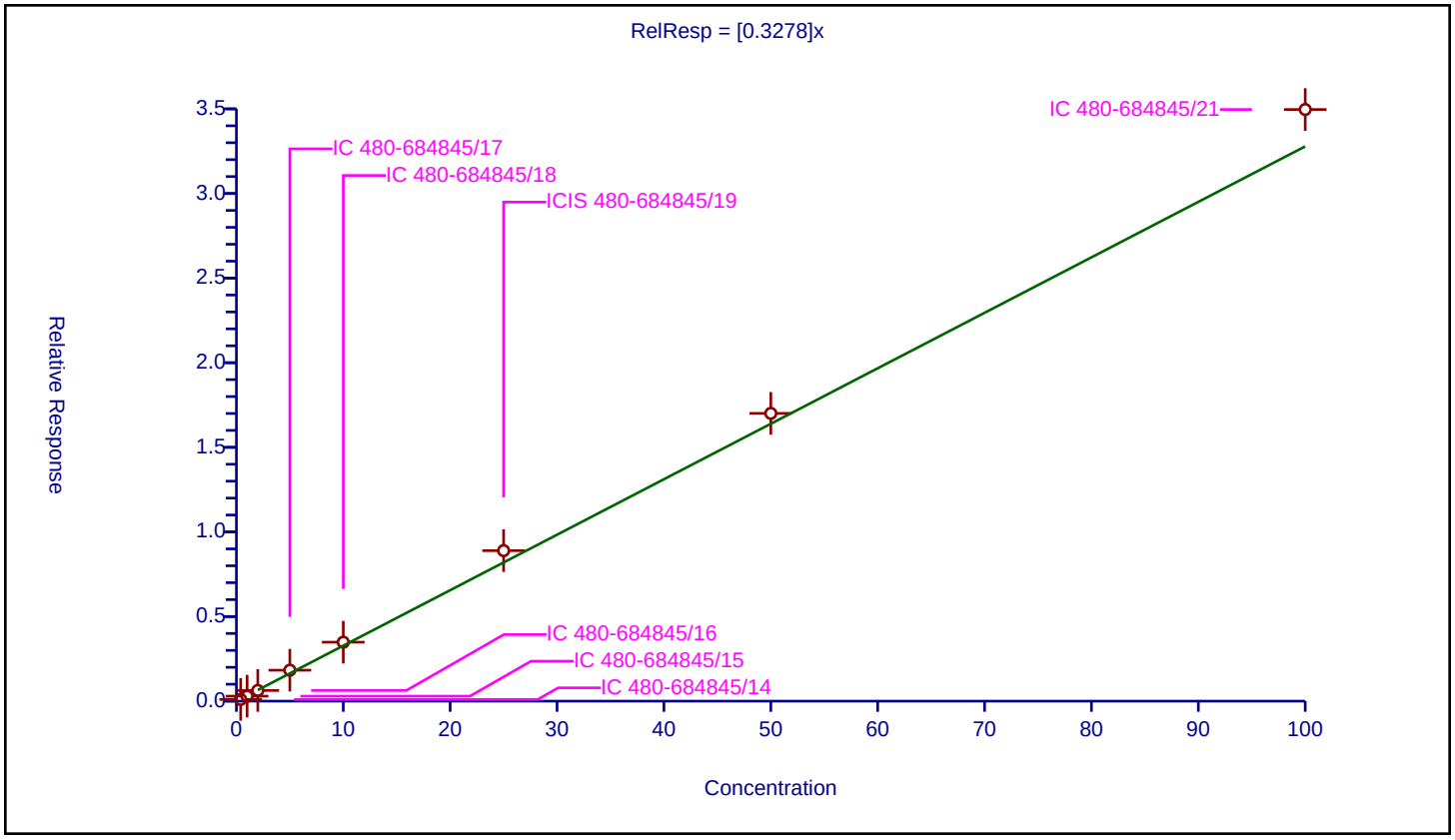
Curve Coefficients

Intercept:	0
Slope:	0.3278

Error Coefficients

Standard Error:	312000
Relative Standard Error:	11.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.10082	25.0	599584.0	0.25205	Y
2	IC 480-684845/15	1.0	0.294901	25.0	559256.0	0.294901	Y
3	IC 480-684845/16	2.0	0.632298	25.0	592165.0	0.316149	Y
4	IC 480-684845/17	5.0	1.828326	25.0	530239.0	0.365665	Y
5	IC 480-684845/18	10.0	3.483349	25.0	508103.0	0.348335	Y
6	ICIS 480-684845/19	25.0	8.893638	25.0	539602.0	0.355746	Y
7	IC 480-684845/20	50.0	17.006741	25.0	511065.0	0.340135	Y
8	IC 480-684845/21	100.0	34.96275	25.0	514100.0	0.349628	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

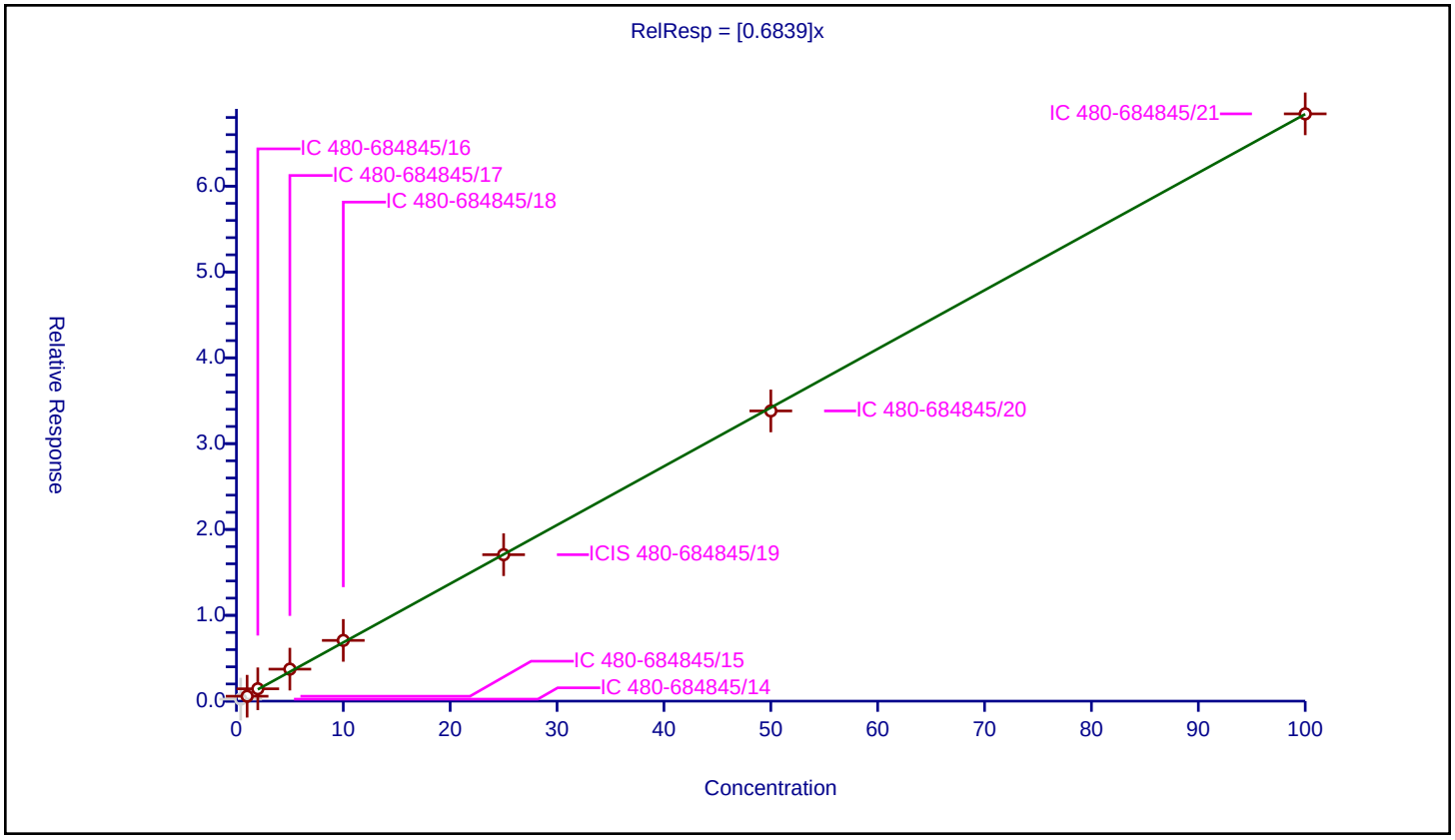
Curve Coefficients

Intercept:	0
Slope:	0.6839

Error Coefficients

Standard Error:	661000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.233912	25.0	599584.0	0.58478	N
2	IC 480-684845/15	1.0	0.571295	25.0	559256.0	0.571295	Y
3	IC 480-684845/16	2.0	1.439464	25.0	592165.0	0.719732	Y
4	IC 480-684845/17	5.0	3.728979	25.0	530239.0	0.745796	Y
5	IC 480-684845/18	10.0	7.076075	25.0	508103.0	0.707608	Y
6	ICIS 480-684845/19	25.0	17.063039	25.0	539602.0	0.682522	Y
7	IC 480-684845/20	50.0	33.81111	25.0	511065.0	0.676222	Y
8	IC 480-684845/21	100.0	68.422535	25.0	514100.0	0.684225	Y



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Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

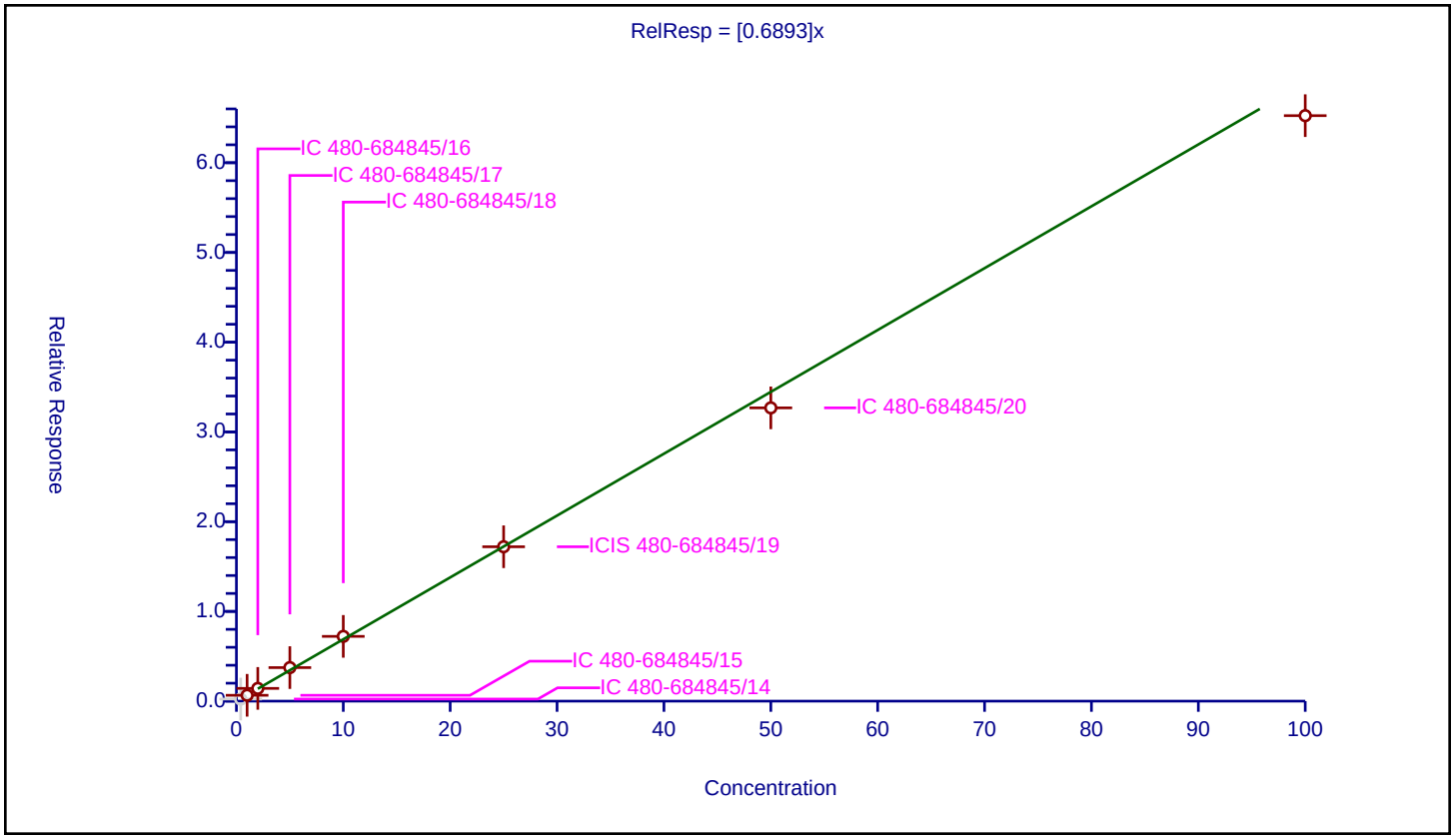
Curve Coefficients

Intercept:	0
Slope:	0.6893

Error Coefficients

Standard Error:	634000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.232286	25.0	599584.0	0.580715	N
2	IC 480-684845/15	1.0	0.651133	25.0	559256.0	0.651133	Y
3	IC 480-684845/16	2.0	1.42017	25.0	592165.0	0.710085	Y
4	IC 480-684845/17	5.0	3.738267	25.0	530239.0	0.747653	Y
5	IC 480-684845/18	10.0	7.217434	25.0	508103.0	0.721743	Y
6	ICIS 480-684845/19	25.0	17.203884	25.0	539602.0	0.688155	Y
7	IC 480-684845/20	50.0	32.683269	25.0	511065.0	0.653665	Y
8	IC 480-684845/21	100.0	65.246401	25.0	514100.0	0.652464	Y



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Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

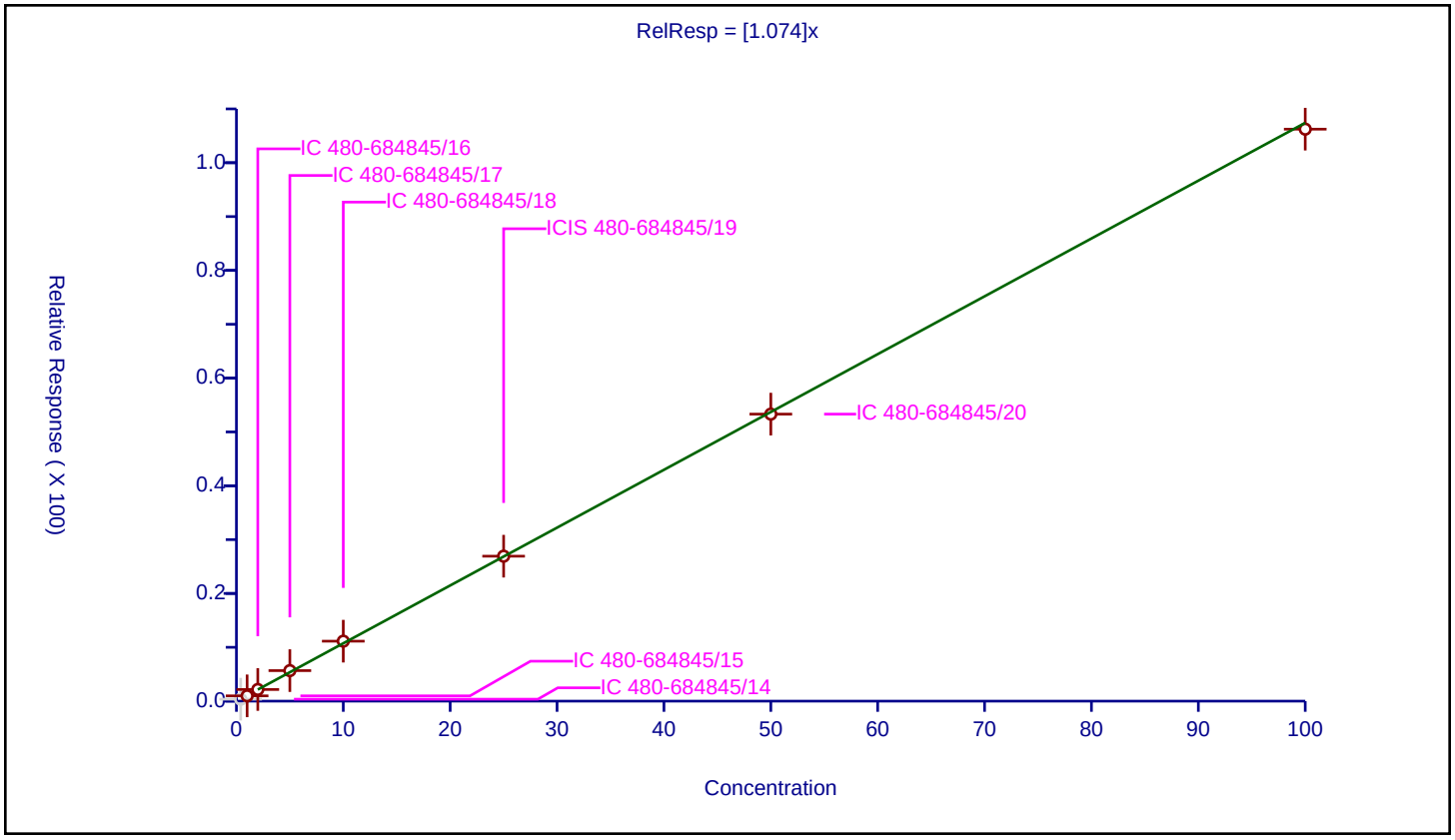
Curve Coefficients

Intercept:	0
Slope:	1.074

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.361459	25.0	599584.0	0.903647	N
2	IC 480-684845/15	1.0	0.982287	25.0	559256.0	0.982287	Y
3	IC 480-684845/16	2.0	2.165866	25.0	592165.0	1.082933	Y
4	IC 480-684845/17	5.0	5.670509	25.0	530239.0	1.134102	Y
5	IC 480-684845/18	10.0	11.138096	25.0	508103.0	1.11381	Y
6	ICIS 480-684845/19	25.0	26.925169	25.0	539602.0	1.077007	Y
7	IC 480-684845/20	50.0	53.309315	25.0	511065.0	1.066186	Y
8	IC 480-684845/21	100.0	106.233709	25.0	514100.0	1.062337	Y



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Calibration / Bromoform

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

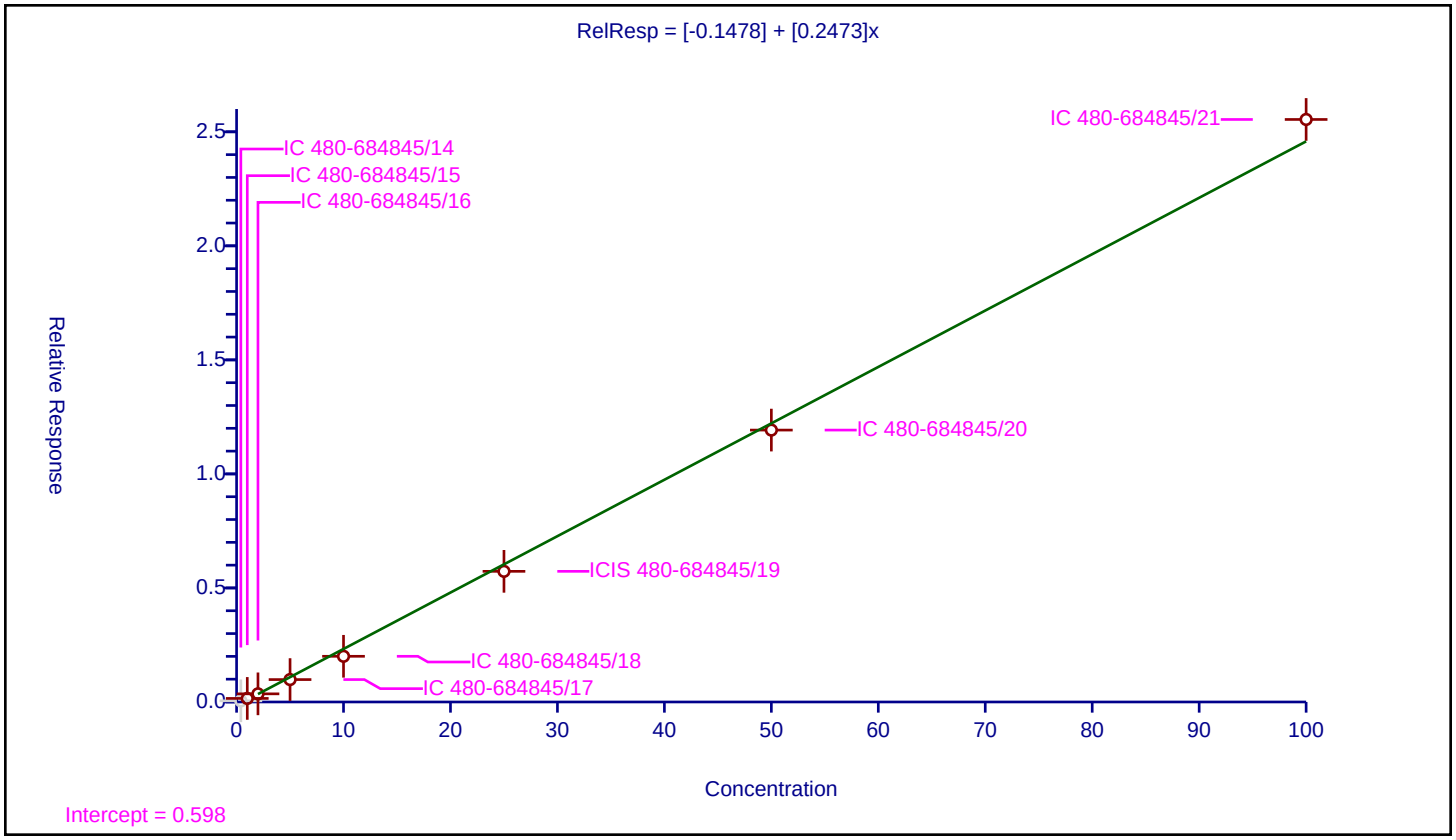
Curve Coefficients

Intercept:	-0.1478
Slope:	0.2473

Error Coefficients

Standard Error:	266000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.050827	25.0	599584.0	0.127067	N
2	IC 480-684845/15	1.0	0.15619	25.0	559256.0	0.15619	Y
3	IC 480-684845/16	2.0	0.35708	25.0	592165.0	0.17854	Y
4	IC 480-684845/17	5.0	0.983142	25.0	530239.0	0.196628	Y
5	IC 480-684845/18	10.0	2.003482	25.0	508103.0	0.200348	Y
6	ICIS 480-684845/19	25.0	5.728157	25.0	539602.0	0.229126	Y
7	IC 480-684845/20	50.0	11.922163	25.0	511065.0	0.238443	Y
8	IC 480-684845/21	100.0	25.541626	25.0	514100.0	0.255416	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

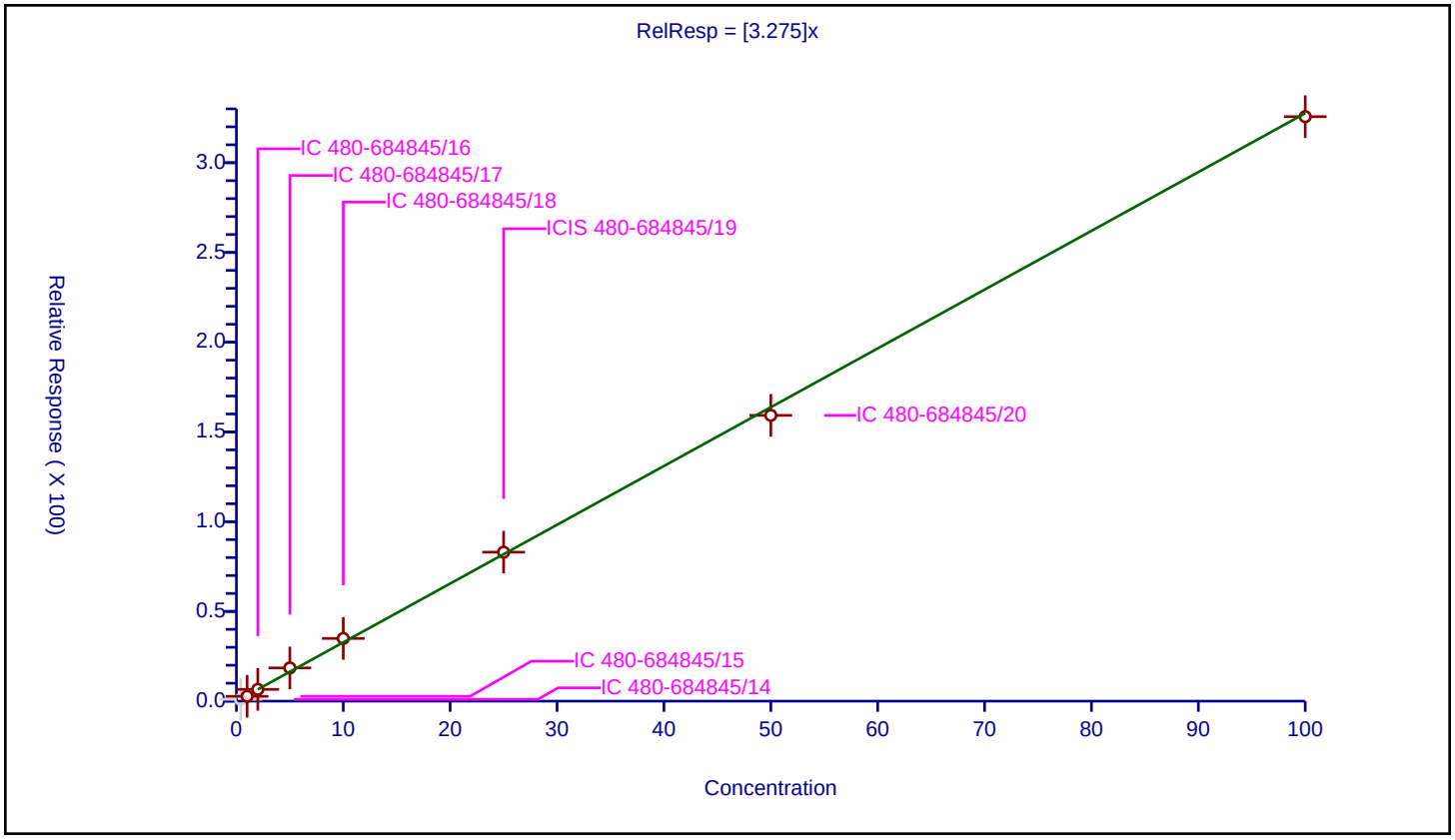
Curve Coefficients

Intercept:	0
Slope:	3.275

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	1.00571	25.0	332203.0	2.514276	N
2	IC 480-684845/15	1.0	2.691769	25.0	308366.0	2.691769	Y
3	IC 480-684845/16	2.0	6.553748	25.0	327801.0	3.276874	Y
4	IC 480-684845/17	5.0	18.520559	25.0	271775.0	3.704112	Y
5	IC 480-684845/18	10.0	34.935608	25.0	268202.0	3.493561	Y
6	ICIS 480-684845/19	25.0	83.015704	25.0	290249.0	3.320628	Y
7	IC 480-684845/20	50.0	159.227589	25.0	271837.0	3.184552	Y
8	IC 480-684845/21	100.0	325.667512	25.0	269733.0	3.256675	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

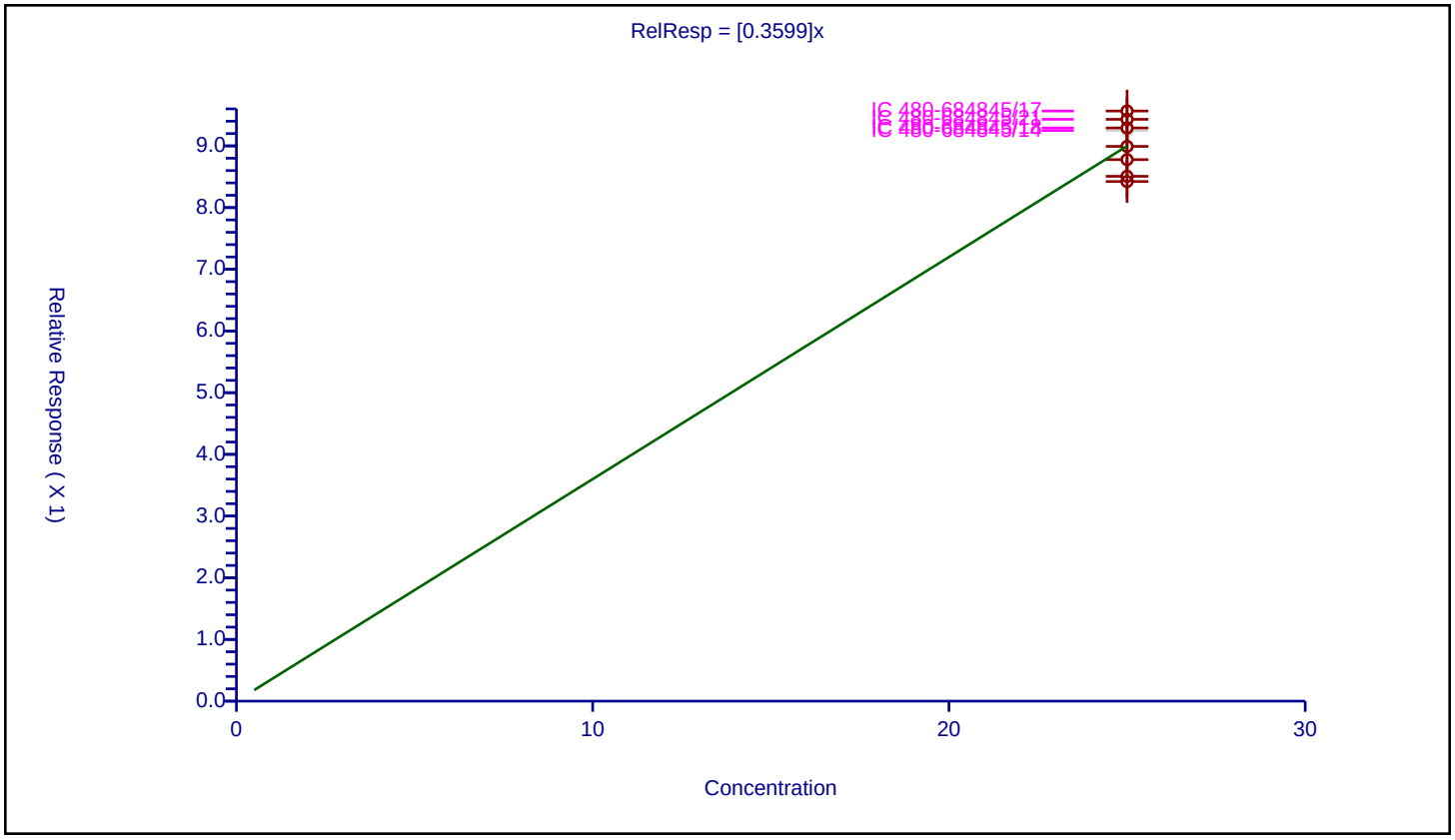
Curve Coefficients

Intercept:	0
Slope:	0.3599

Error Coefficients

Standard Error:	208000
Relative Standard Error:	5.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	25.0	9.249163	25.0	599584.0	0.369967	N
2	IC 480-684845/15	25.0	8.777554	25.0	559256.0	0.351102	Y
3	IC 480-684845/16	25.0	8.507384	25.0	592165.0	0.340295	Y
4	IC 480-684845/17	25.0	9.565262	25.0	530239.0	0.38261	Y
5	IC 480-684845/18	25.0	9.291423	25.0	508103.0	0.371657	Y
6	ICIS 480-684845/19	25.0	8.422736	25.0	539602.0	0.336909	Y
7	IC 480-684845/20	25.0	8.992007	25.0	511065.0	0.35968	Y
8	IC 480-684845/21	25.0	9.430558	25.0	514100.0	0.377222	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

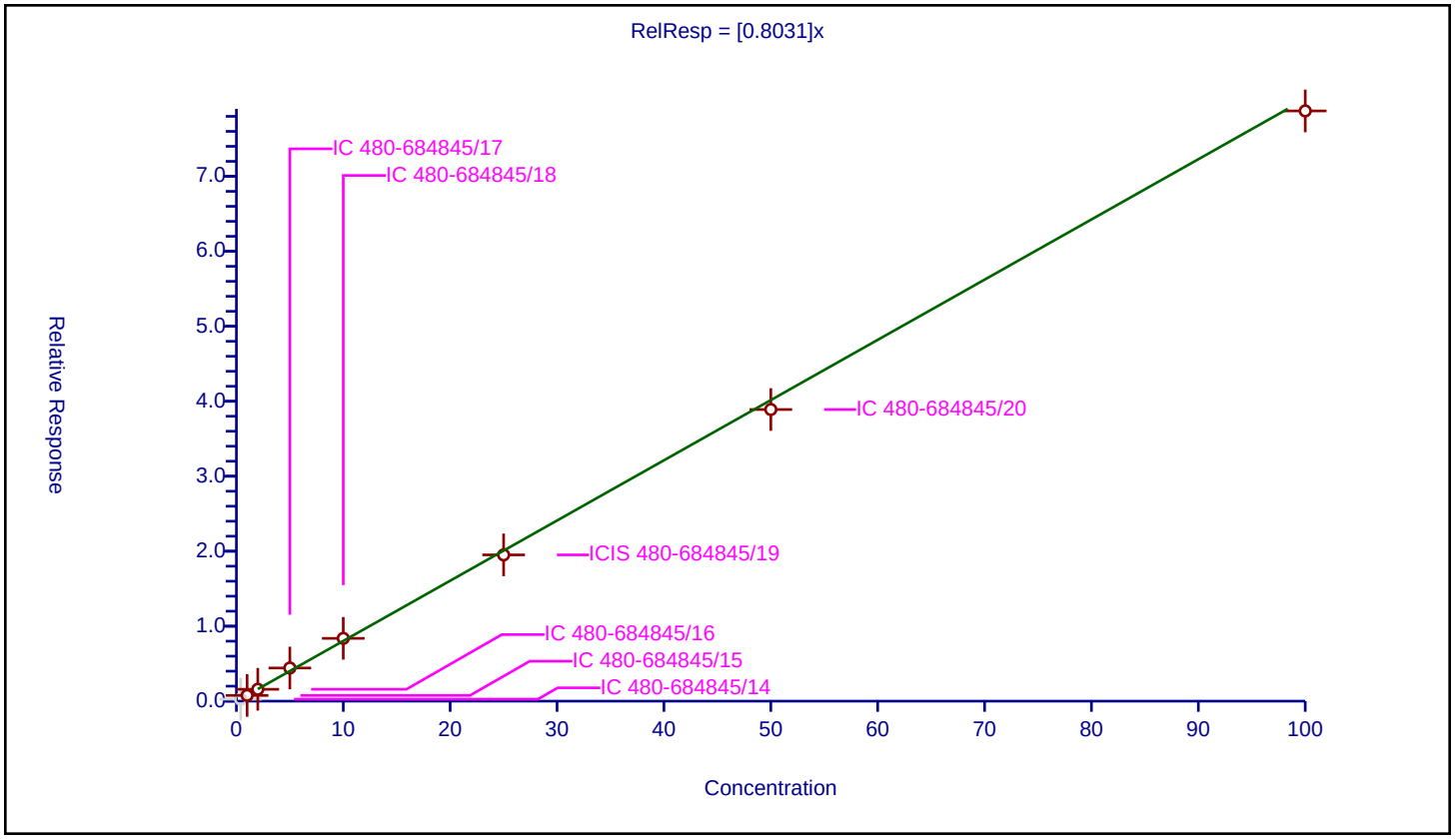
Curve Coefficients

Intercept:	0
Slope:	0.8031

Error Coefficients

Standard Error:	401000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.263167	25.0	332203.0	0.657919	N
2	IC 480-684845/15	1.0	0.763298	25.0	308366.0	0.763298	Y
3	IC 480-684845/16	2.0	1.582057	25.0	327801.0	0.791029	Y
4	IC 480-684845/17	5.0	4.421948	25.0	271775.0	0.88439	Y
5	IC 480-684845/18	10.0	8.374751	25.0	268202.0	0.837475	Y
6	ICIS 480-684845/19	25.0	19.509025	25.0	290249.0	0.780361	Y
7	IC 480-684845/20	50.0	38.901345	25.0	271837.0	0.778027	Y
8	IC 480-684845/21	100.0	78.728038	25.0	269733.0	0.78728	Y



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Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

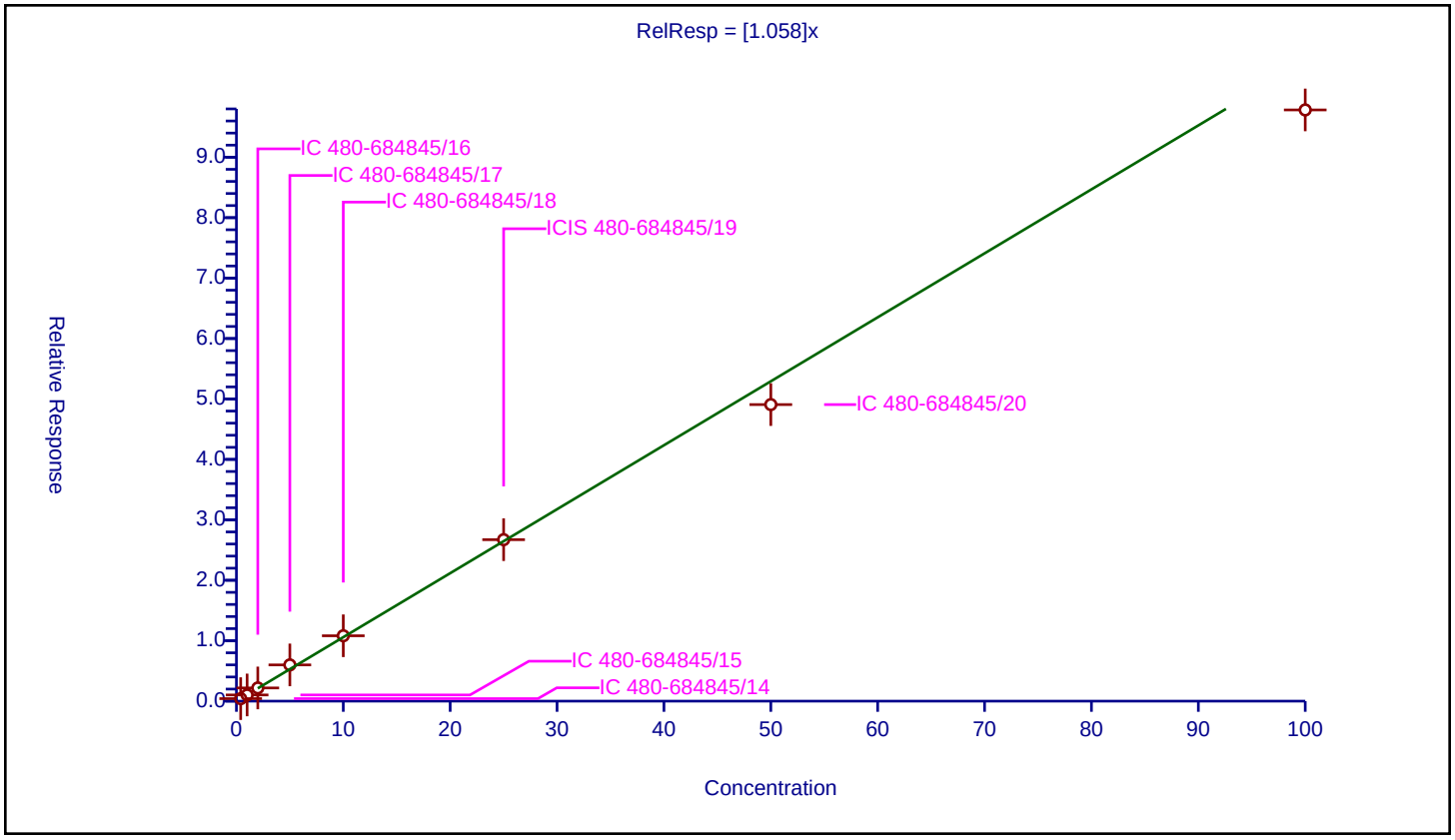
Curve Coefficients

Intercept:	0
Slope:	1.058

Error Coefficients

Standard Error:	465000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.41571	25.0	332203.0	1.039274	Y
2	IC 480-684845/15	1.0	1.026135	25.0	308366.0	1.026135	Y
3	IC 480-684845/16	2.0	2.185625	25.0	327801.0	1.092812	Y
4	IC 480-684845/17	5.0	5.9977	25.0	271775.0	1.19954	Y
5	IC 480-684845/18	10.0	10.817313	25.0	268202.0	1.081731	Y
6	ICIS 480-684845/19	25.0	26.718008	25.0	290249.0	1.06872	Y
7	IC 480-684845/20	50.0	49.073618	25.0	271837.0	0.981472	Y
8	IC 480-684845/21	100.0	97.829335	25.0	269733.0	0.978293	Y



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Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

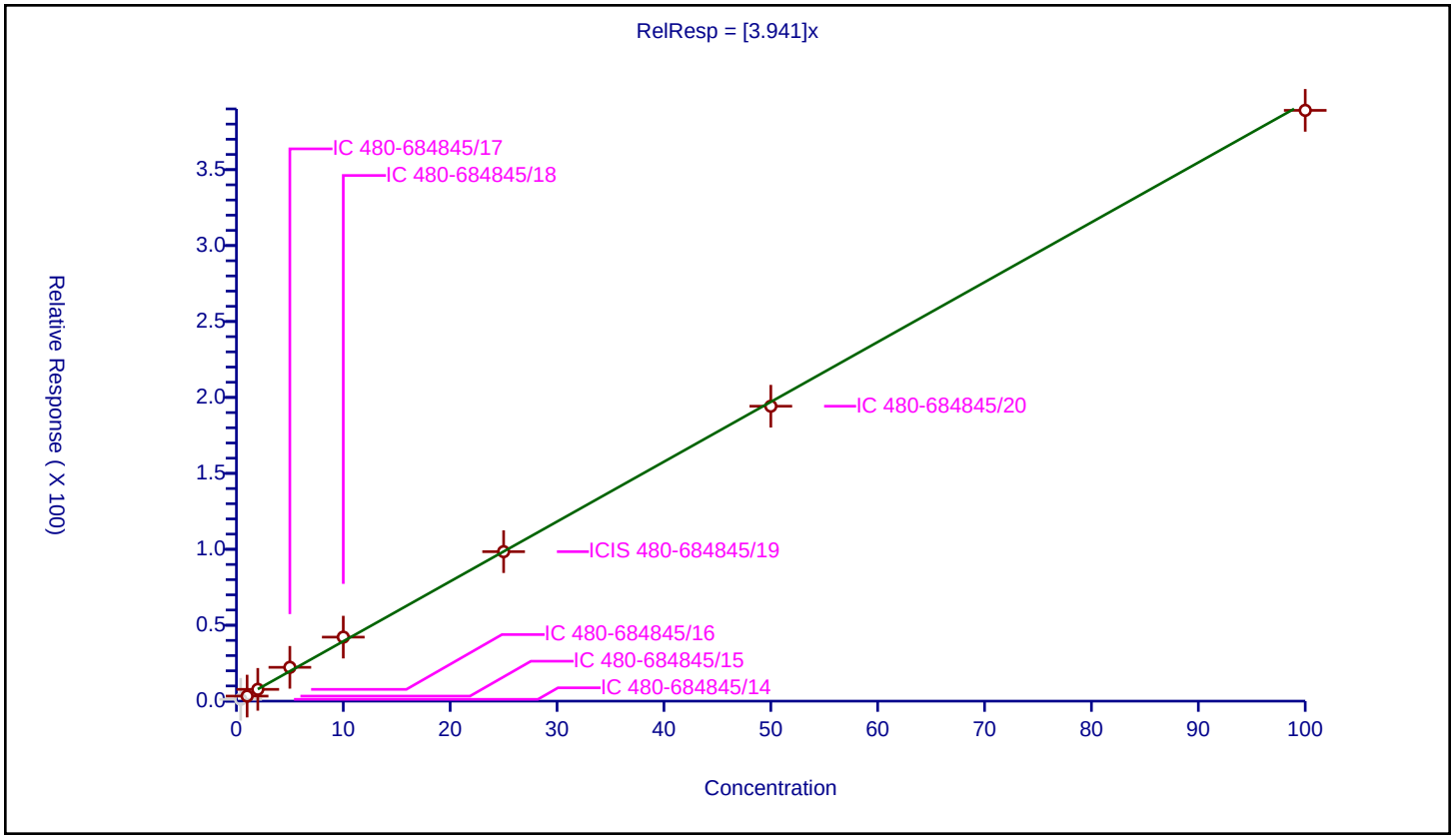
Curve Coefficients

Intercept:	0
Slope:	3.941

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	1.19874	25.0	332203.0	2.99685	N
2	IC 480-684845/15	1.0	3.321945	25.0	308366.0	3.321945	Y
3	IC 480-684845/16	2.0	7.766831	25.0	327801.0	3.883416	Y
4	IC 480-684845/17	5.0	22.27348	25.0	271775.0	4.454696	Y
5	IC 480-684845/18	10.0	42.15759	25.0	268202.0	4.215759	Y
6	ICIS 480-684845/19	25.0	98.438238	25.0	290249.0	3.93753	Y
7	IC 480-684845/20	50.0	194.214824	25.0	271837.0	3.884296	Y
8	IC 480-684845/21	100.0	389.030727	25.0	269733.0	3.890307	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

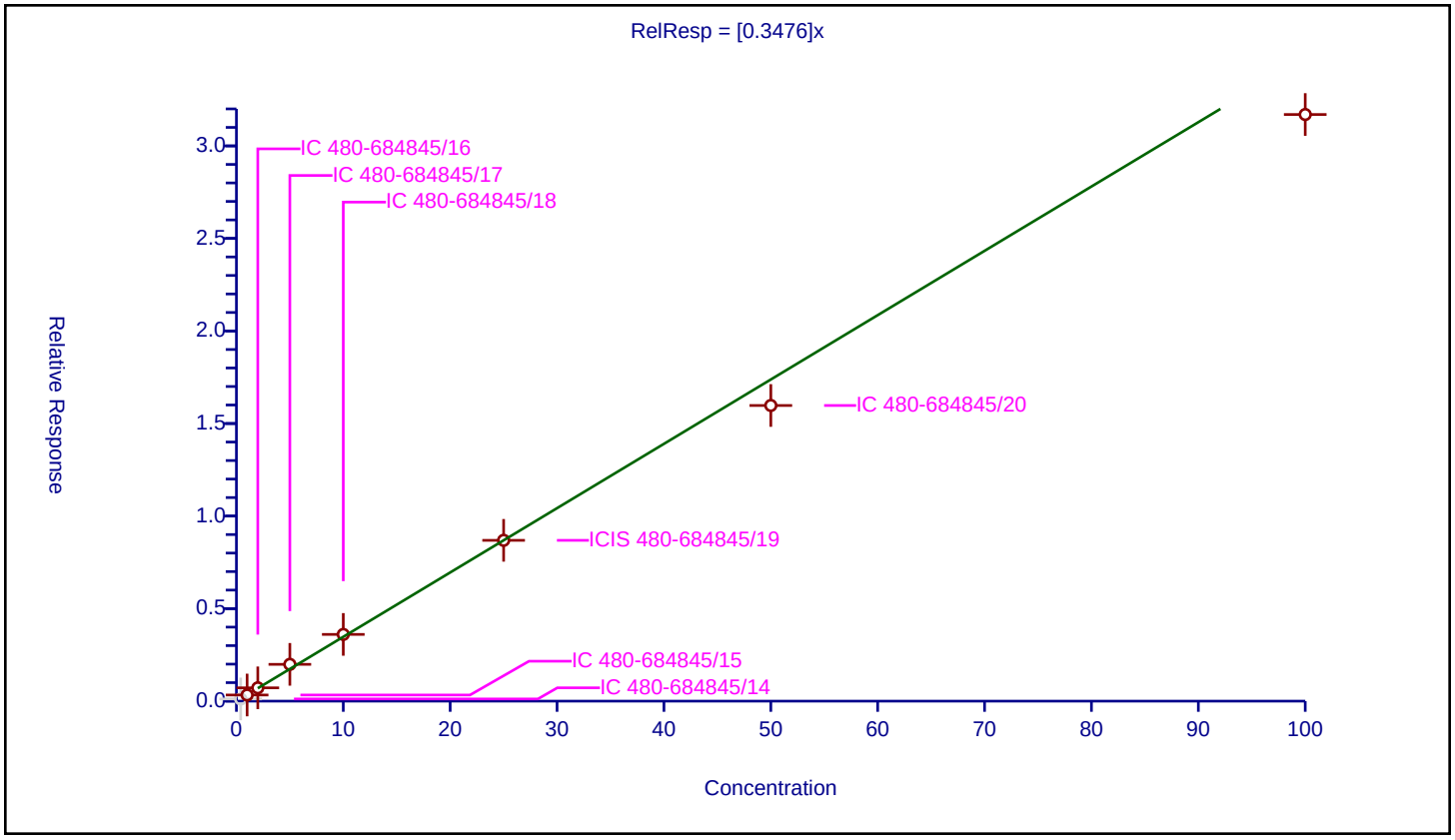
Curve Coefficients

Intercept:	0
Slope:	0.3476

Error Coefficients

Standard Error:	163000
Relative Standard Error:	8.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.118753	25.0	332203.0	0.296882	N
2	IC 480-684845/15	1.0	0.331668	25.0	308366.0	0.331668	Y
3	IC 480-684845/16	2.0	0.718347	25.0	327801.0	0.359174	Y
4	IC 480-684845/17	5.0	1.987858	25.0	271775.0	0.397572	Y
5	IC 480-684845/18	10.0	3.605398	25.0	268202.0	0.36054	Y
6	ICIS 480-684845/19	25.0	8.688919	25.0	290249.0	0.347557	Y
7	IC 480-684845/20	50.0	15.975014	25.0	271837.0	0.3195	Y
8	IC 480-684845/21	100.0	31.696251	25.0	269733.0	0.316963	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

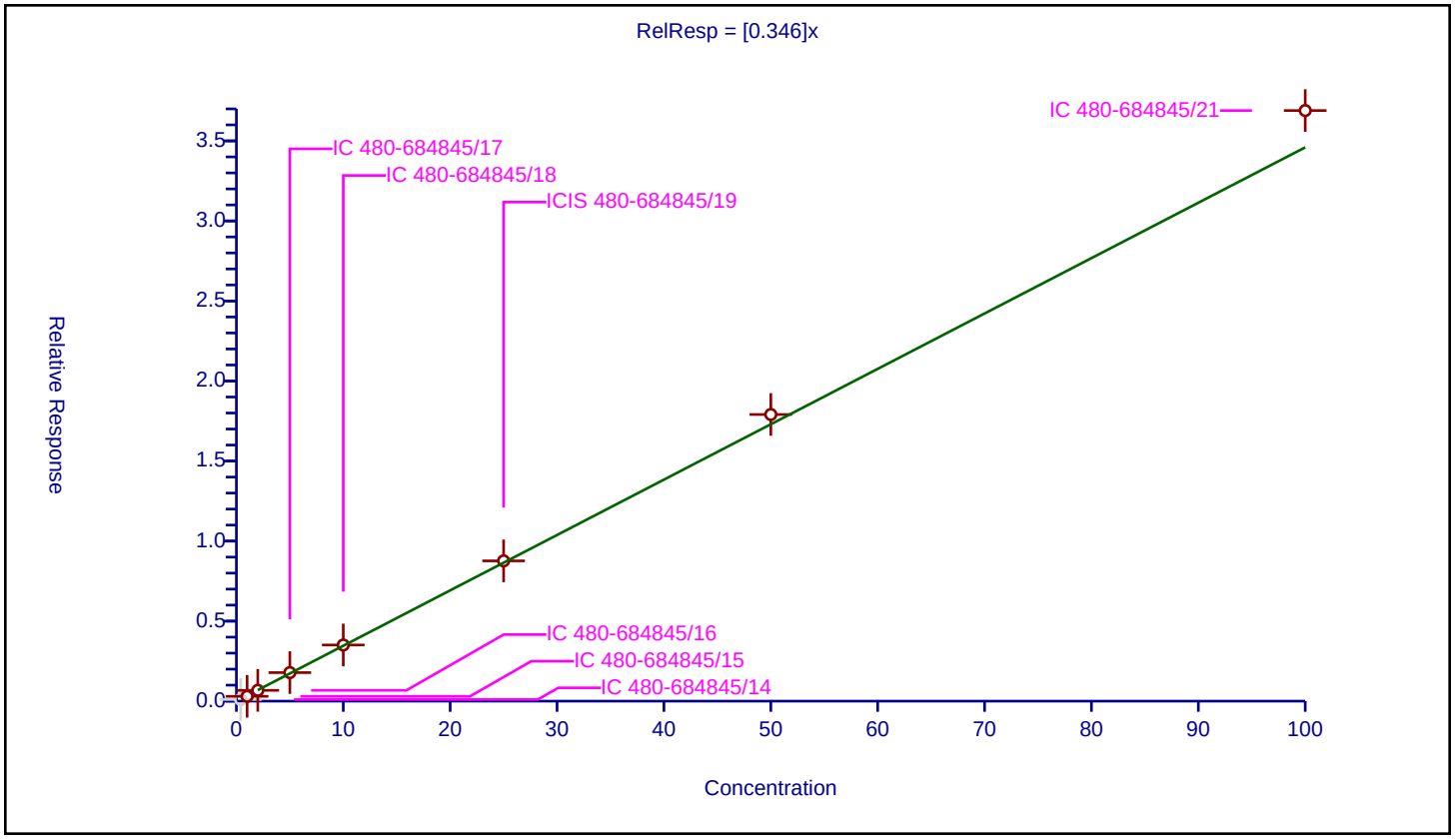
Curve Coefficients

Intercept:	0
Slope:	0.346

Error Coefficients

Standard Error:	186000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.103175	25.0	332203.0	0.257937	N
2	IC 480-684845/15	1.0	0.299644	25.0	308366.0	0.299644	Y
3	IC 480-684845/16	2.0	0.673961	25.0	327801.0	0.33698	Y
4	IC 480-684845/17	5.0	1.783093	25.0	271775.0	0.356619	Y
5	IC 480-684845/18	10.0	3.50799	25.0	268202.0	0.350799	Y
6	ICIS 480-684845/19	25.0	8.763338	25.0	290249.0	0.350534	Y
7	IC 480-684845/20	50.0	17.907698	25.0	271837.0	0.358154	Y
8	IC 480-684845/21	100.0	36.895374	25.0	269733.0	0.368954	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

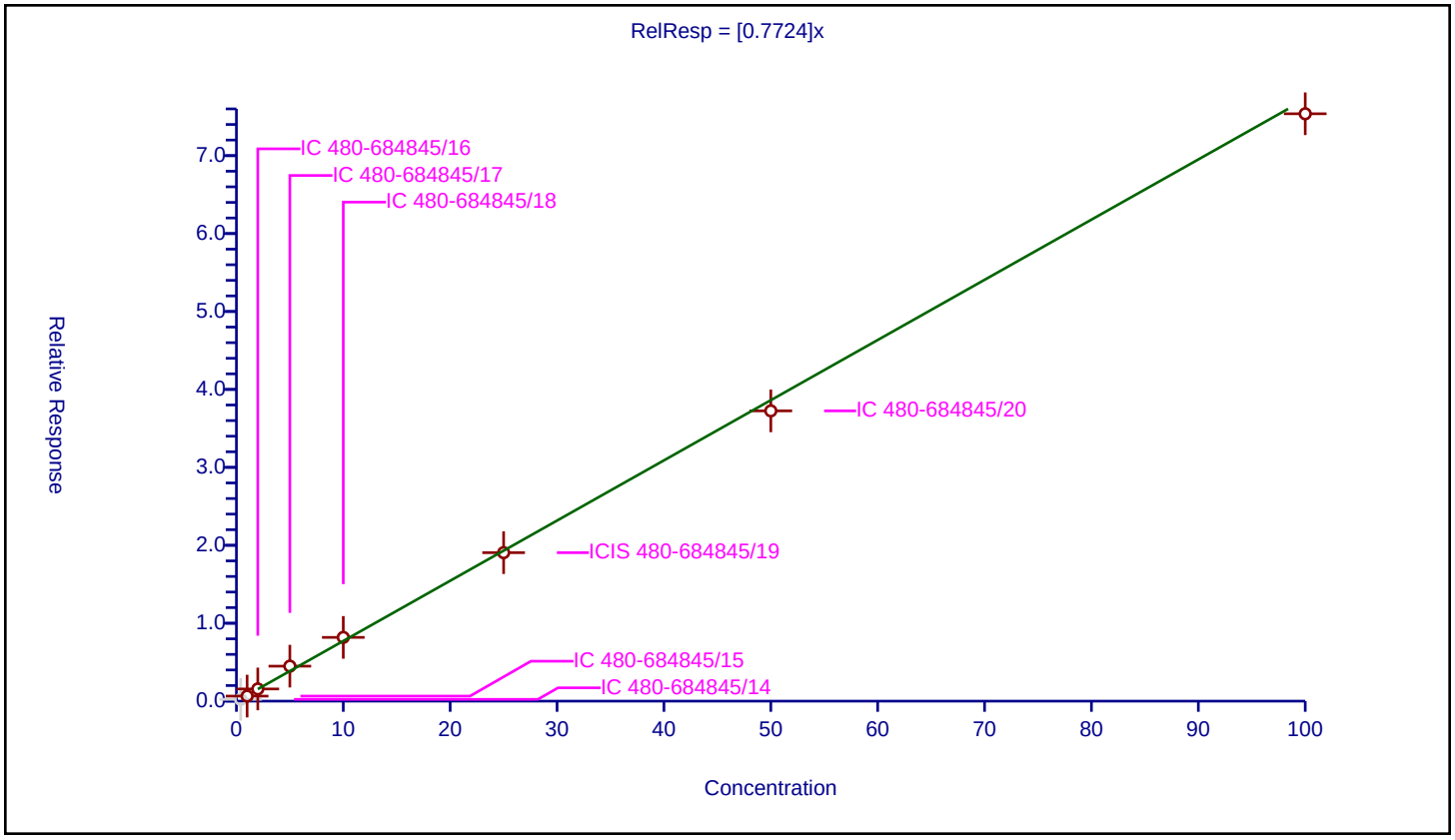
Curve Coefficients

Intercept:	0
Slope:	0.7724

Error Coefficients

Standard Error:	384000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.229528	25.0	332203.0	0.573821	N
2	IC 480-684845/15	1.0	0.647202	25.0	308366.0	0.647202	Y
3	IC 480-684845/16	2.0	1.564821	25.0	327801.0	0.782411	Y
4	IC 480-684845/17	5.0	4.490755	25.0	271775.0	0.898151	Y
5	IC 480-684845/18	10.0	8.179935	25.0	268202.0	0.817994	Y
6	ICIS 480-684845/19	25.0	19.052004	25.0	290249.0	0.76208	Y
7	IC 480-684845/20	50.0	37.249436	25.0	271837.0	0.744989	Y
8	IC 480-684845/21	100.0	75.373239	25.0	269733.0	0.753732	Y



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Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

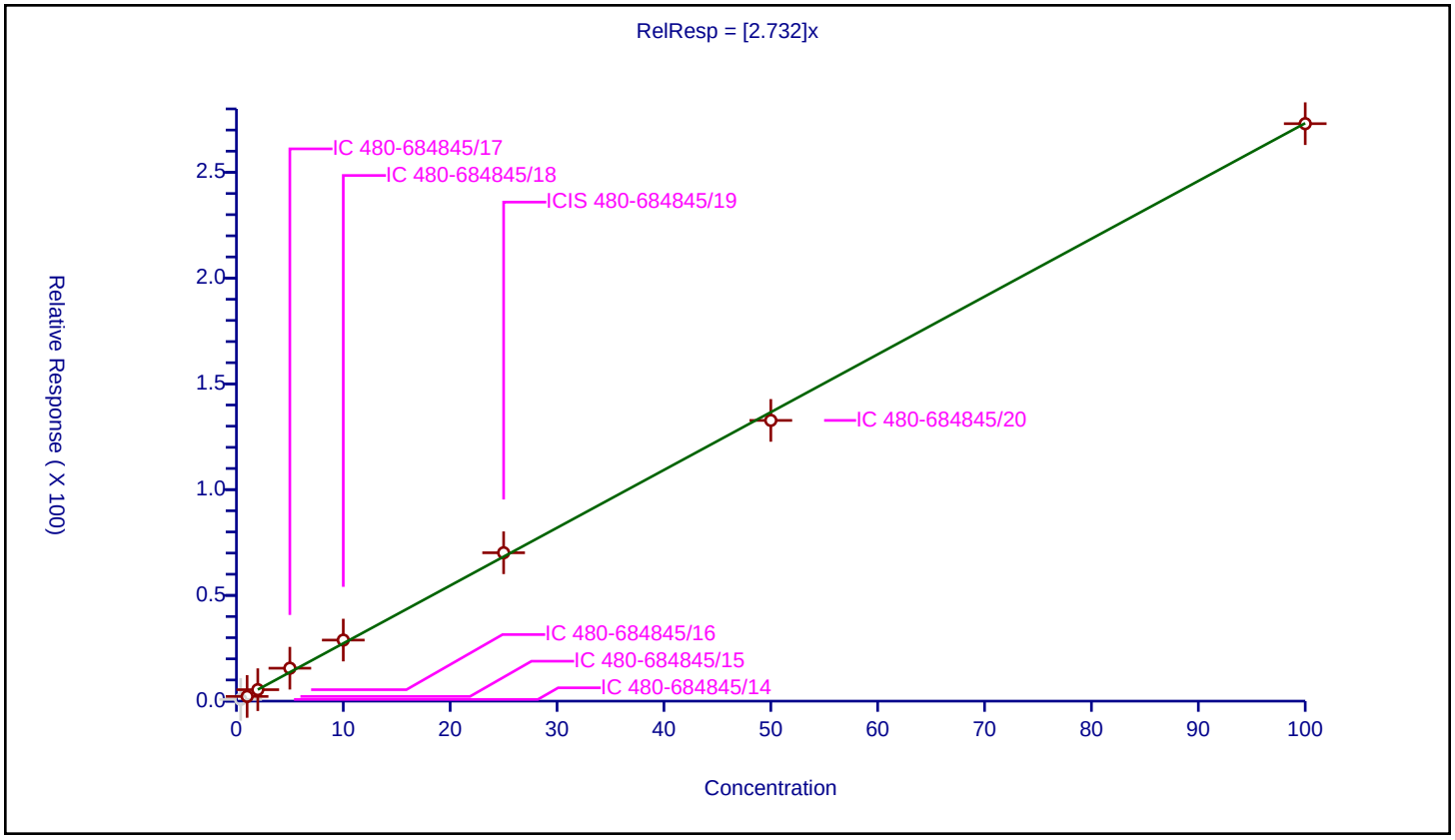
Curve Coefficients

Intercept:	0
Slope:	2.732

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.815465	25.0	332203.0	2.038663	N
2	IC 480-684845/15	1.0	2.225926	25.0	308366.0	2.225926	Y
3	IC 480-684845/16	2.0	5.417082	25.0	327801.0	2.708541	Y
4	IC 480-684845/17	5.0	15.573452	25.0	271775.0	3.11469	Y
5	IC 480-684845/18	10.0	28.866023	25.0	268202.0	2.886602	Y
6	ICIS 480-684845/19	25.0	70.155883	25.0	290249.0	2.806235	Y
7	IC 480-684845/20	50.0	132.727609	25.0	271837.0	2.654552	Y
8	IC 480-684845/21	100.0	273.007103	25.0	269733.0	2.730071	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

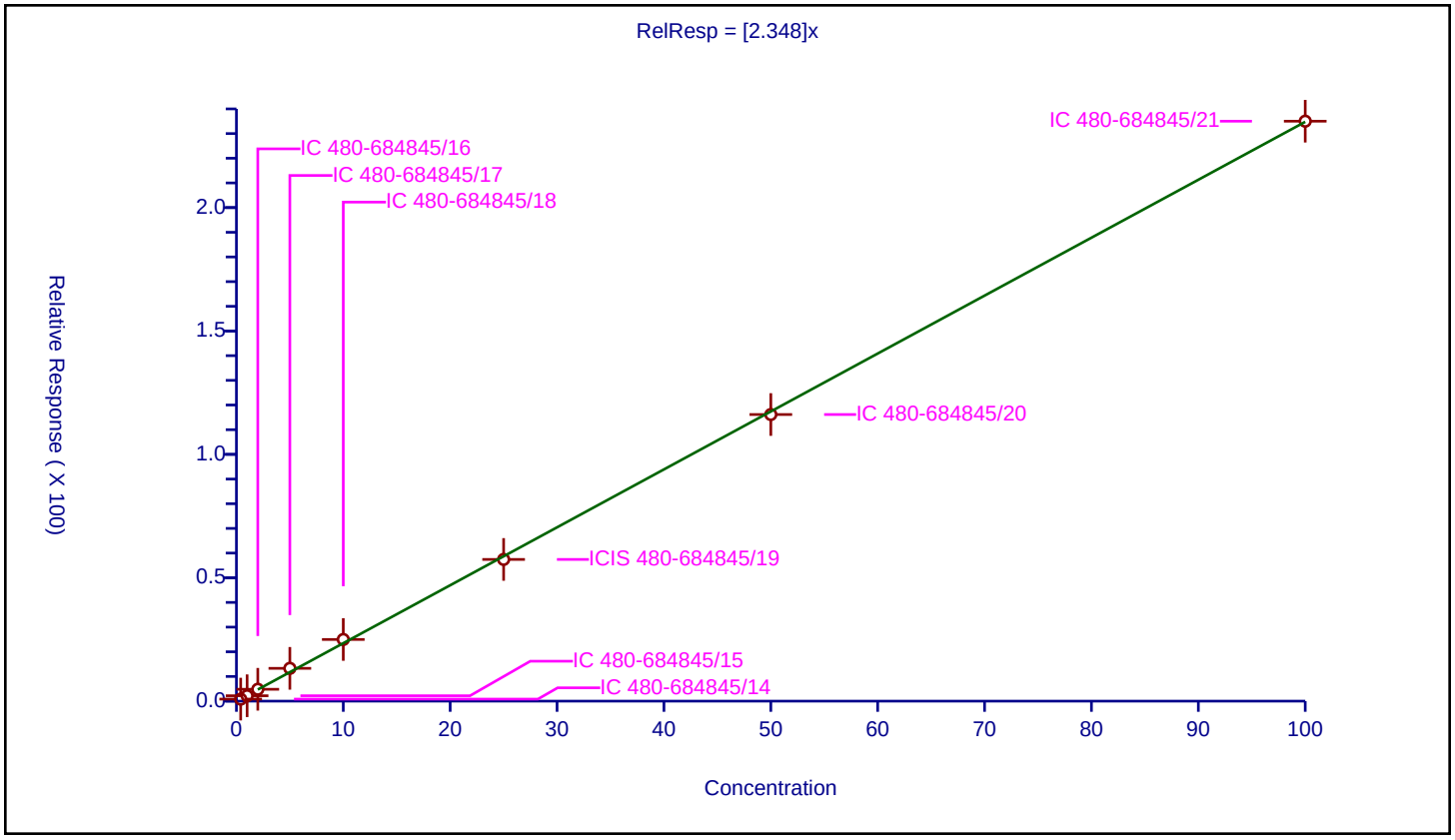
Curve Coefficients

Intercept:	0
Slope:	2.348

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.825324	25.0	332203.0	2.063309	Y
2	IC 480-684845/15	1.0	2.1892	25.0	308366.0	2.1892	Y
3	IC 480-684845/16	2.0	4.803219	25.0	327801.0	2.40161	Y
4	IC 480-684845/17	5.0	13.286358	25.0	271775.0	2.657272	Y
5	IC 480-684845/18	10.0	24.989933	25.0	268202.0	2.498993	Y
6	ICIS 480-684845/19	25.0	57.424487	25.0	290249.0	2.296979	Y
7	IC 480-684845/20	50.0	116.145245	25.0	271837.0	2.322905	Y
8	IC 480-684845/21	100.0	235.012957	25.0	269733.0	2.35013	Y



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Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

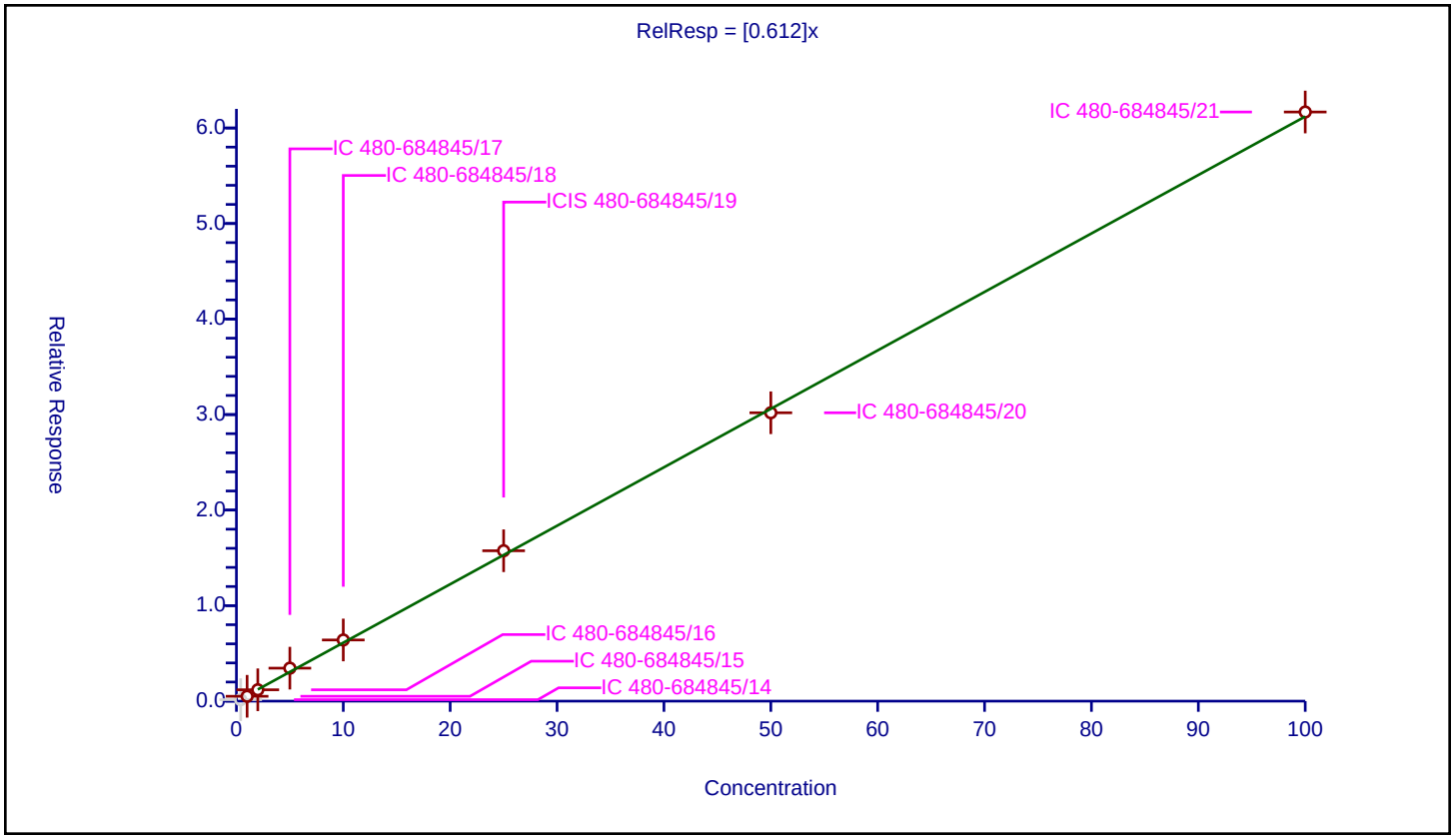
Curve Coefficients

Intercept:	0
Slope:	0.612

Error Coefficients

Standard Error:	314000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.15337	25.0	332203.0	0.383425	N
2	IC 480-684845/15	1.0	0.508081	25.0	308366.0	0.508081	Y
3	IC 480-684845/16	2.0	1.188907	25.0	327801.0	0.594454	Y
4	IC 480-684845/17	5.0	3.453684	25.0	271775.0	0.690737	Y
5	IC 480-684845/18	10.0	6.403383	25.0	268202.0	0.640338	Y
6	ICIS 480-684845/19	25.0	15.743379	25.0	290249.0	0.629735	Y
7	IC 480-684845/20	50.0	30.190519	25.0	271837.0	0.60381	Y
8	IC 480-684845/21	100.0	61.674693	25.0	269733.0	0.616747	Y



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Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

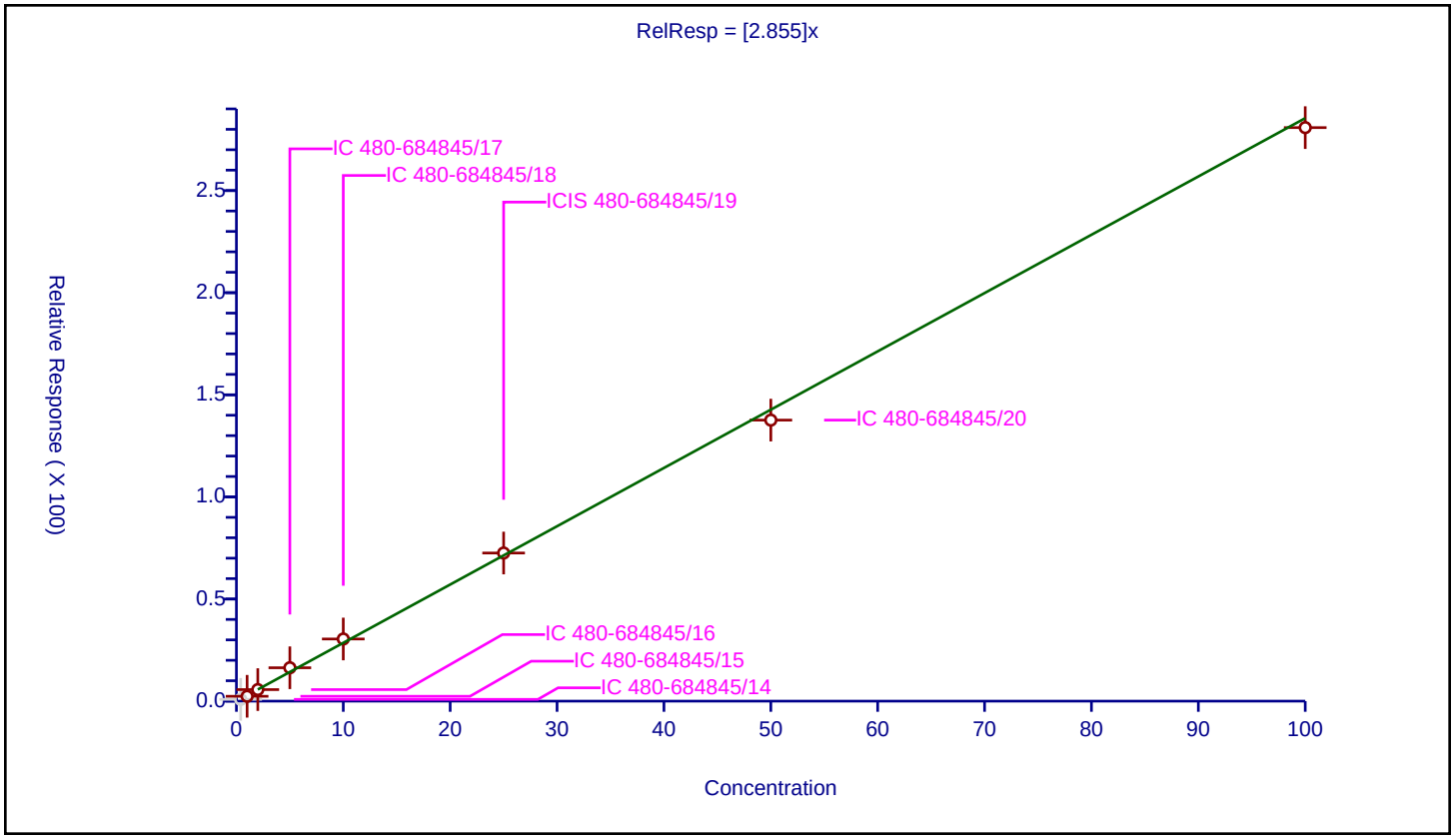
Curve Coefficients

Intercept:	0
Slope:	2.855

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.866112	25.0	332203.0	2.16528	N
2	IC 480-684845/15	1.0	2.380775	25.0	308366.0	2.380775	Y
3	IC 480-684845/16	2.0	5.651447	25.0	327801.0	2.825724	Y
4	IC 480-684845/17	5.0	16.351946	25.0	271775.0	3.270389	Y
5	IC 480-684845/18	10.0	30.433032	25.0	268202.0	3.043303	Y
6	ICIS 480-684845/19	25.0	72.524712	25.0	290249.0	2.900988	Y
7	IC 480-684845/20	50.0	137.606452	25.0	271837.0	2.752129	Y
8	IC 480-684845/21	100.0	280.826224	25.0	269733.0	2.808262	Y



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Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

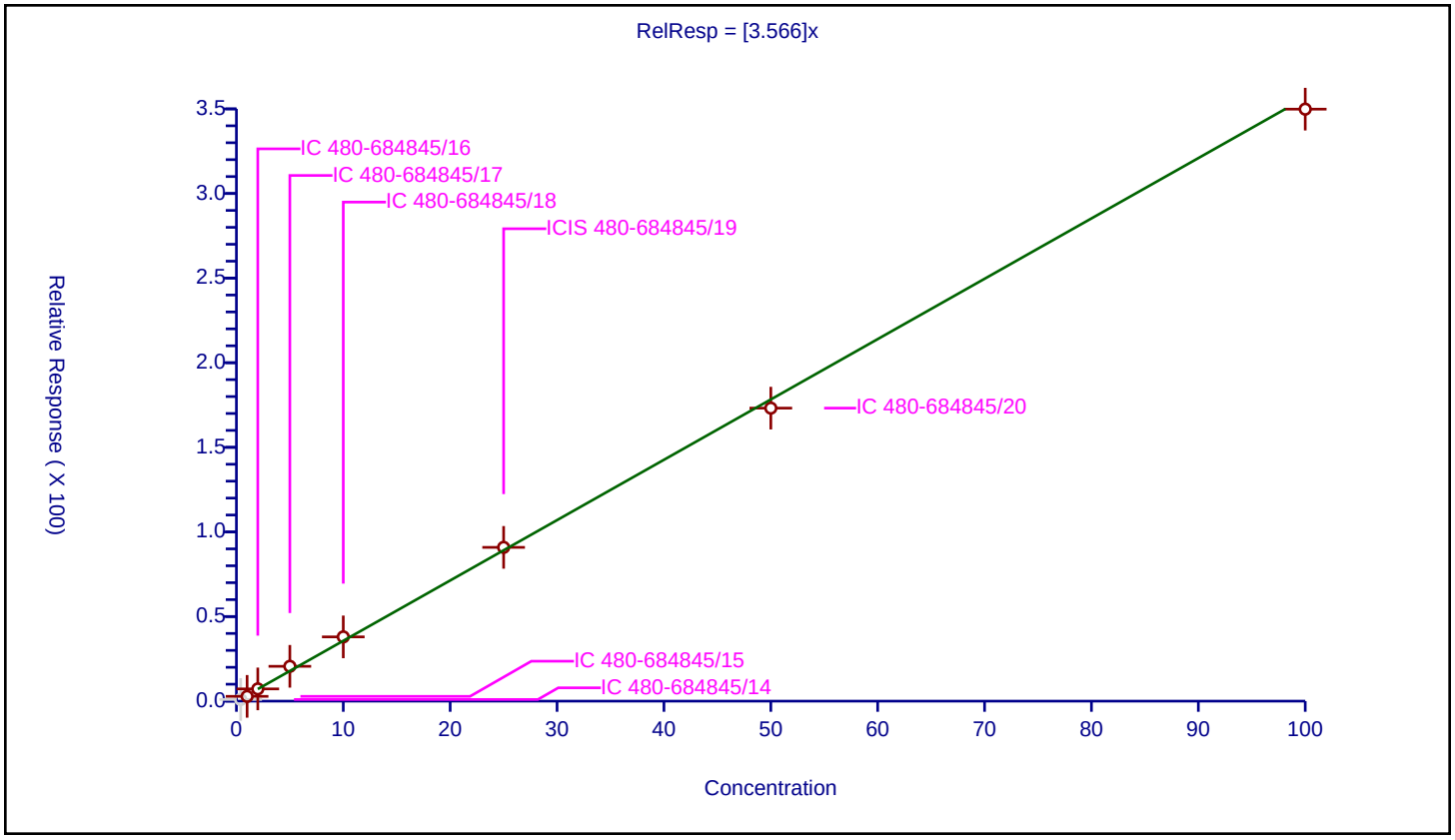
Curve Coefficients

Intercept:	0
Slope:	3.566

Error Coefficients

Standard Error:	1790000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.982532	25.0	332203.0	2.456329	N
2	IC 480-684845/15	1.0	2.832268	25.0	308366.0	2.832268	Y
3	IC 480-684845/16	2.0	7.239682	25.0	327801.0	3.619841	Y
4	IC 480-684845/17	5.0	20.573912	25.0	271775.0	4.114782	Y
5	IC 480-684845/18	10.0	37.966626	25.0	268202.0	3.796663	Y
6	ICIS 480-684845/19	25.0	90.868444	25.0	290249.0	3.634738	Y
7	IC 480-684845/20	50.0	173.168664	25.0	271837.0	3.463373	Y
8	IC 480-684845/21	100.0	349.849388	25.0	269733.0	3.498494	Y



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Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

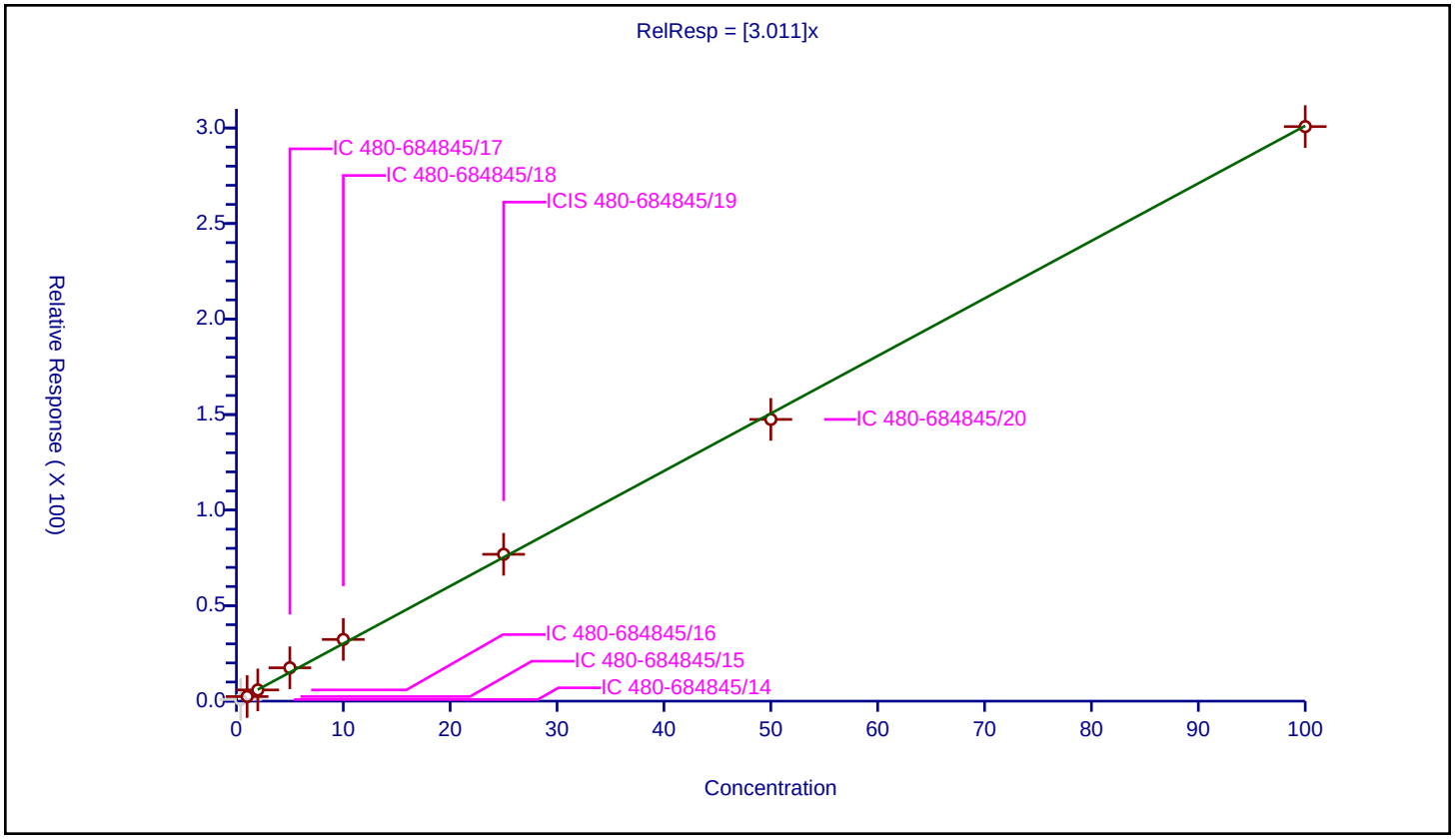
Curve Coefficients

Intercept:	0
Slope:	3.011

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	11.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.850083	25.0	332203.0	2.125207	N
2	IC 480-684845/15	1.0	2.393341	25.0	308366.0	2.393341	Y
3	IC 480-684845/16	2.0	5.869338	25.0	327801.0	2.934669	Y
4	IC 480-684845/17	5.0	17.455064	25.0	271775.0	3.491013	Y
5	IC 480-684845/18	10.0	32.292544	25.0	268202.0	3.229254	Y
6	ICIS 480-684845/19	25.0	76.870463	25.0	290249.0	3.074819	Y
7	IC 480-684845/20	50.0	147.472474	25.0	271837.0	2.949449	Y
8	IC 480-684845/21	100.0	300.72924	25.0	269733.0	3.007292	Y



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Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

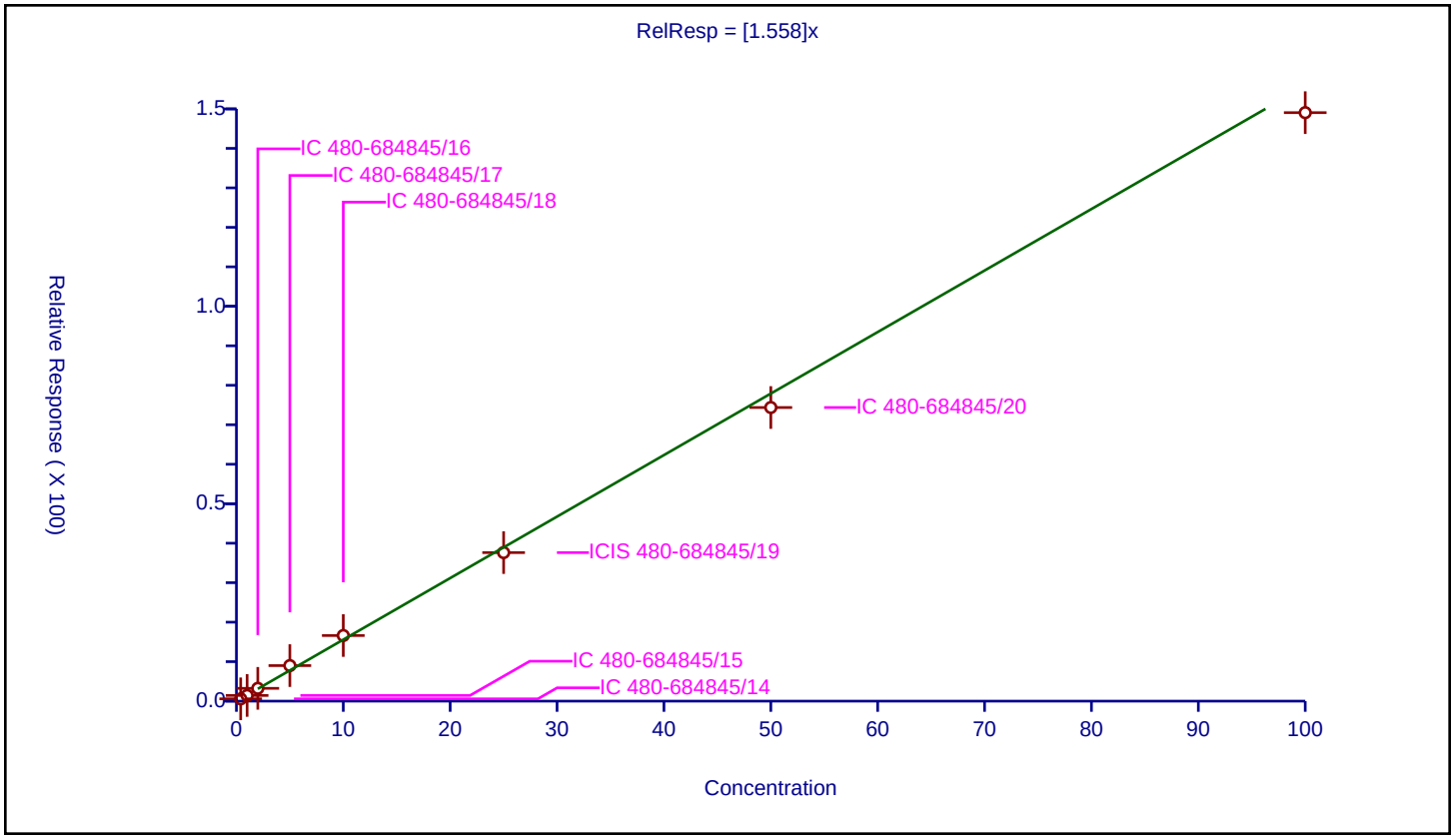
Curve Coefficients

Intercept:	0
Slope:	1.558

Error Coefficients

Standard Error:	704000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.582776	25.0	332203.0	1.45694	Y
2	IC 480-684845/15	1.0	1.440901	25.0	308366.0	1.440901	Y
3	IC 480-684845/16	2.0	3.24244	25.0	327801.0	1.62122	Y
4	IC 480-684845/17	5.0	9.001472	25.0	271775.0	1.800294	Y
5	IC 480-684845/18	10.0	16.618071	25.0	268202.0	1.661807	Y
6	ICIS 480-684845/19	25.0	37.623988	25.0	290249.0	1.50496	Y
7	IC 480-684845/20	50.0	74.365153	25.0	271837.0	1.487303	Y
8	IC 480-684845/21	100.0	149.047299	25.0	269733.0	1.490473	Y



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Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

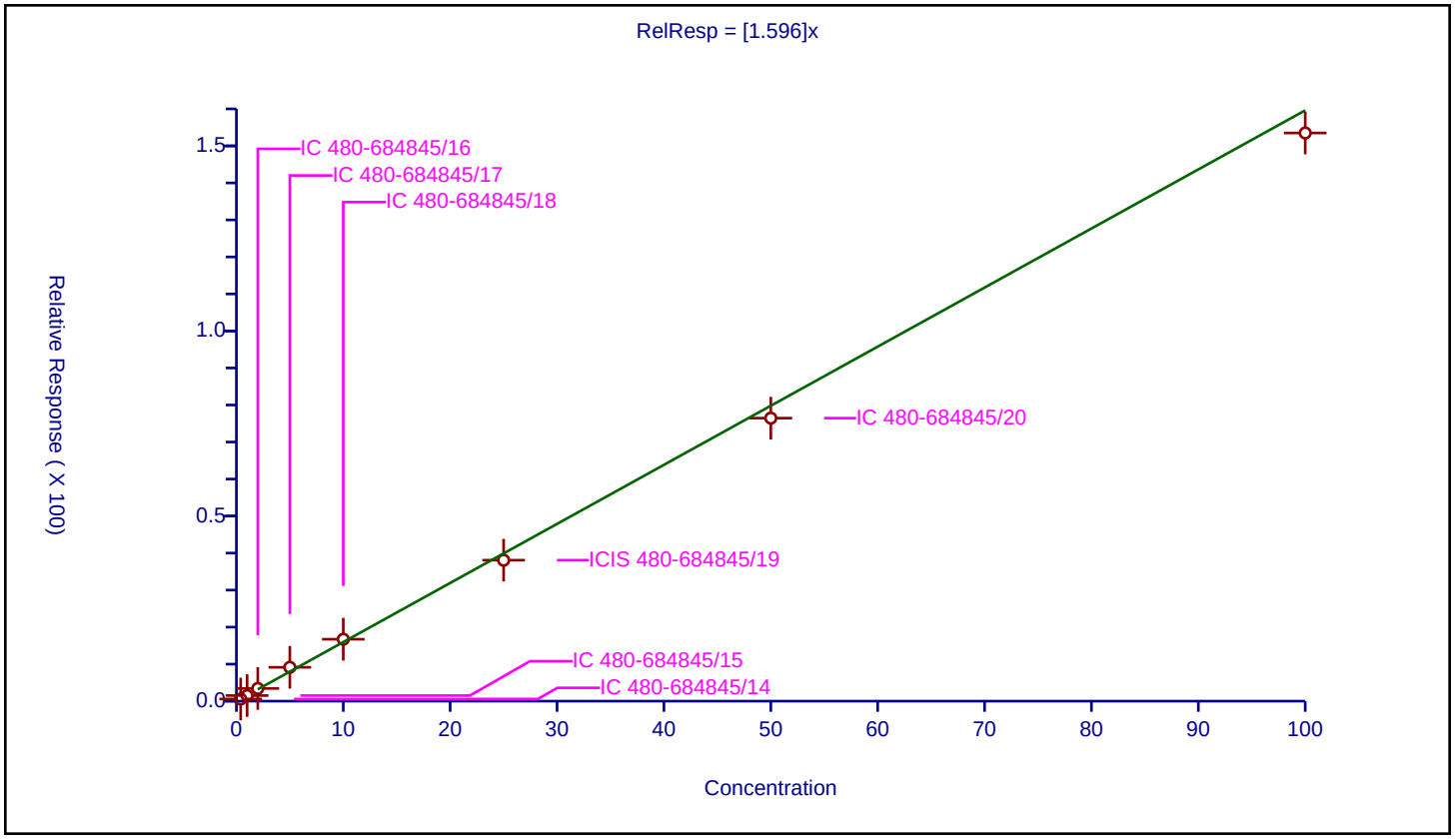
Curve Coefficients

Intercept:	0
Slope:	1.596

Error Coefficients

Standard Error:	724000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.581045	25.0	332203.0	1.452613	Y
2	IC 480-684845/15	1.0	1.51111	25.0	308366.0	1.51111	Y
3	IC 480-684845/16	2.0	3.430969	25.0	327801.0	1.715484	Y
4	IC 480-684845/17	5.0	9.144053	25.0	271775.0	1.828811	Y
5	IC 480-684845/18	10.0	16.728436	25.0	268202.0	1.672844	Y
6	ICIS 480-684845/19	25.0	38.084713	25.0	290249.0	1.523389	Y
7	IC 480-684845/20	50.0	76.456112	25.0	271837.0	1.529122	Y
8	IC 480-684845/21	100.0	153.486874	25.0	269733.0	1.534869	Y



10/13/2023
10:08 AM

Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

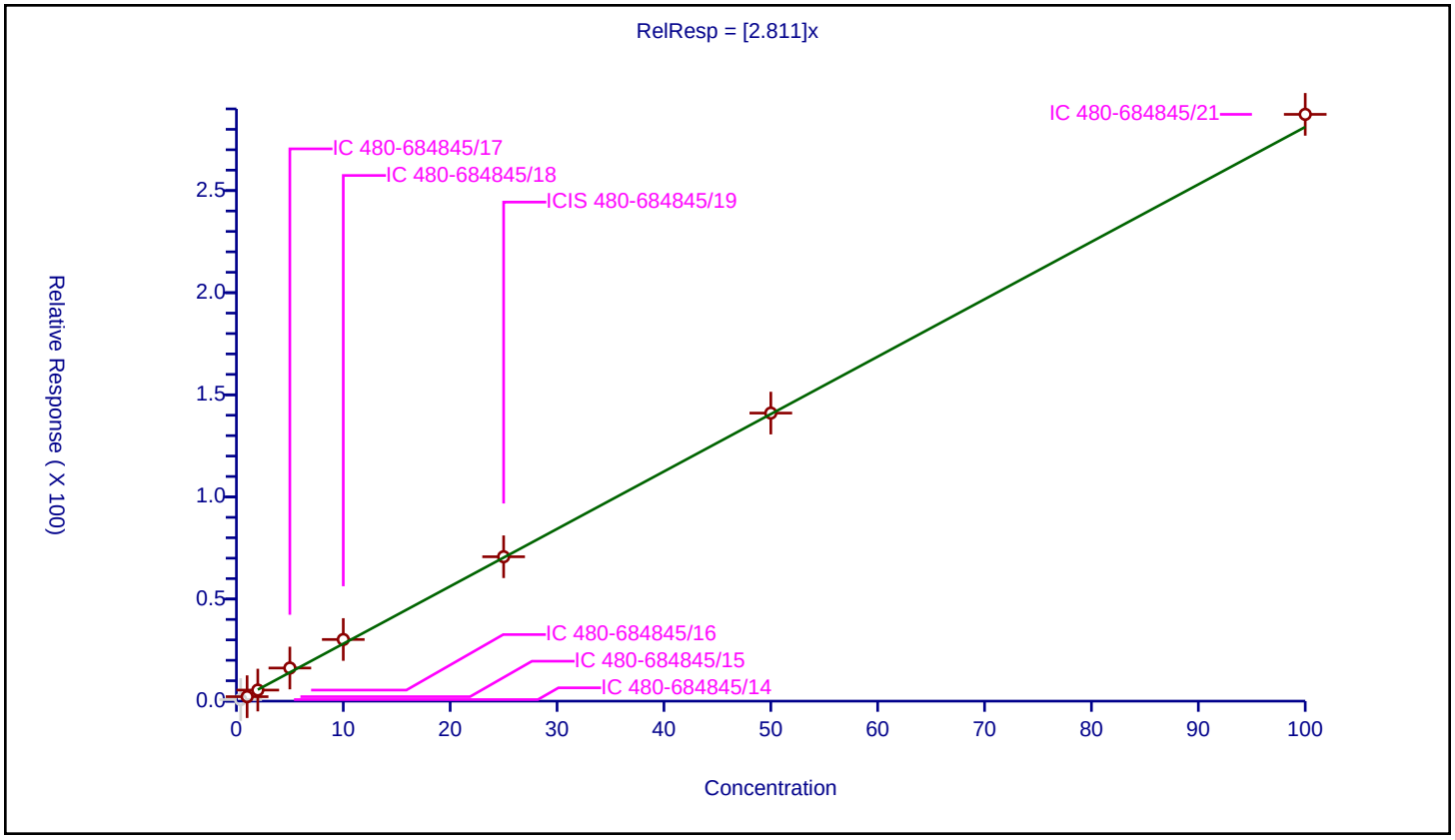
Curve Coefficients

Intercept:	0
Slope:	2.811

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.766248	25.0	332203.0	1.915621	N
2	IC 480-684845/15	1.0	2.18612	25.0	308366.0	2.18612	Y
3	IC 480-684845/16	2.0	5.414108	25.0	327801.0	2.707054	Y
4	IC 480-684845/17	5.0	16.222979	25.0	271775.0	3.244596	Y
5	IC 480-684845/18	10.0	30.188347	25.0	268202.0	3.018835	Y
6	ICIS 480-684845/19	25.0	70.709632	25.0	290249.0	2.828385	Y
7	IC 480-684845/20	50.0	141.046381	25.0	271837.0	2.820928	Y
8	IC 480-684845/21	100.0	287.325429	25.0	269733.0	2.873254	Y



10/13/2023
10:08 AM

Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

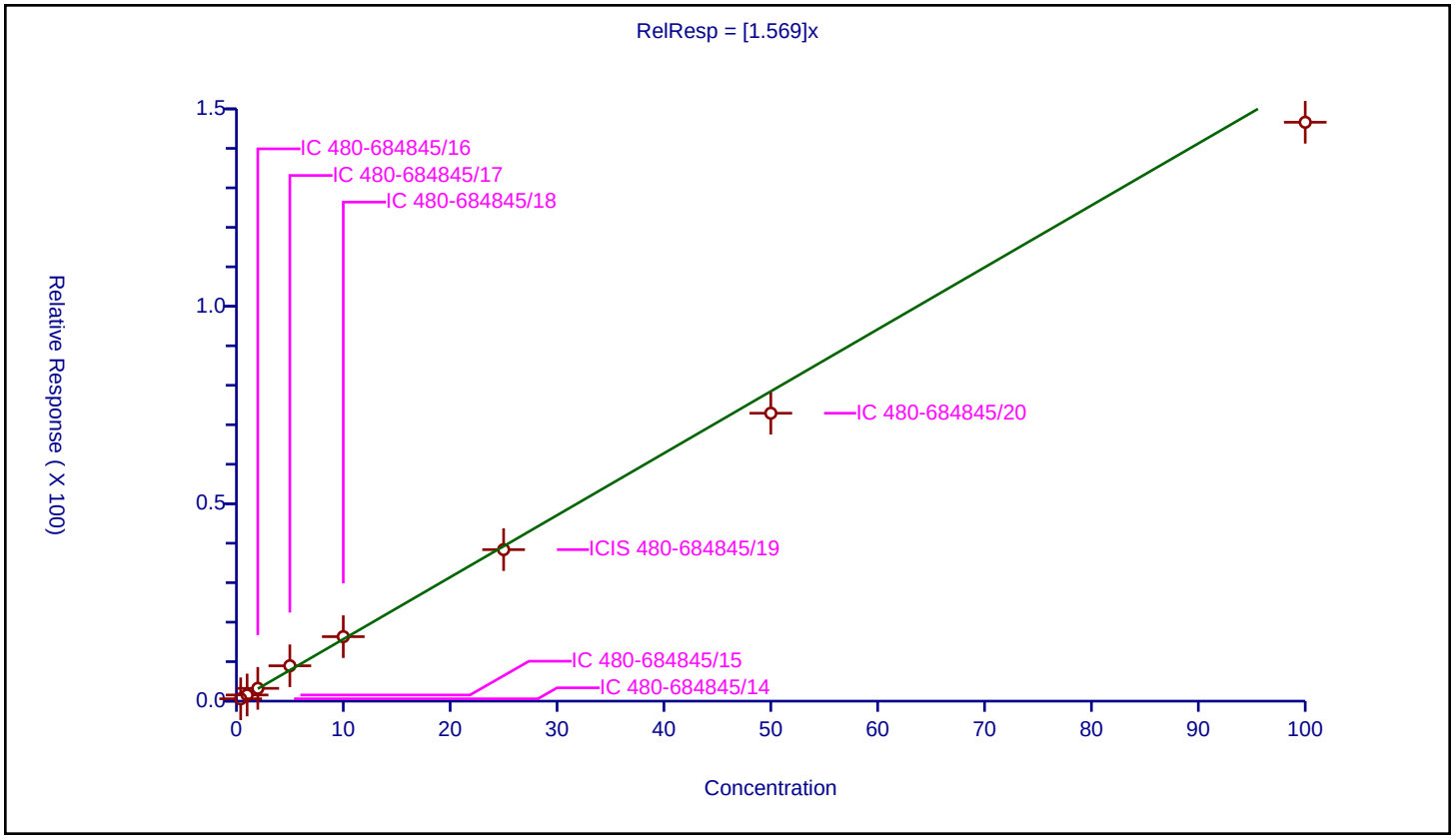
Curve Coefficients

Intercept:	0
Slope:	1.569

Error Coefficients

Standard Error:	694000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.596623	25.0	332203.0	1.491558	Y
2	IC 480-684845/15	1.0	1.559105	25.0	308366.0	1.559105	Y
3	IC 480-684845/16	2.0	3.241448	25.0	327801.0	1.620724	Y
4	IC 480-684845/17	5.0	8.956214	25.0	271775.0	1.791243	Y
5	IC 480-684845/18	10.0	16.328924	25.0	268202.0	1.632892	Y
6	ICIS 480-684845/19	25.0	38.374034	25.0	290249.0	1.534961	Y
7	IC 480-684845/20	50.0	72.925963	25.0	271837.0	1.458519	Y
8	IC 480-684845/21	100.0	146.611093	25.0	269733.0	1.466111	Y



10/13/2023
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Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

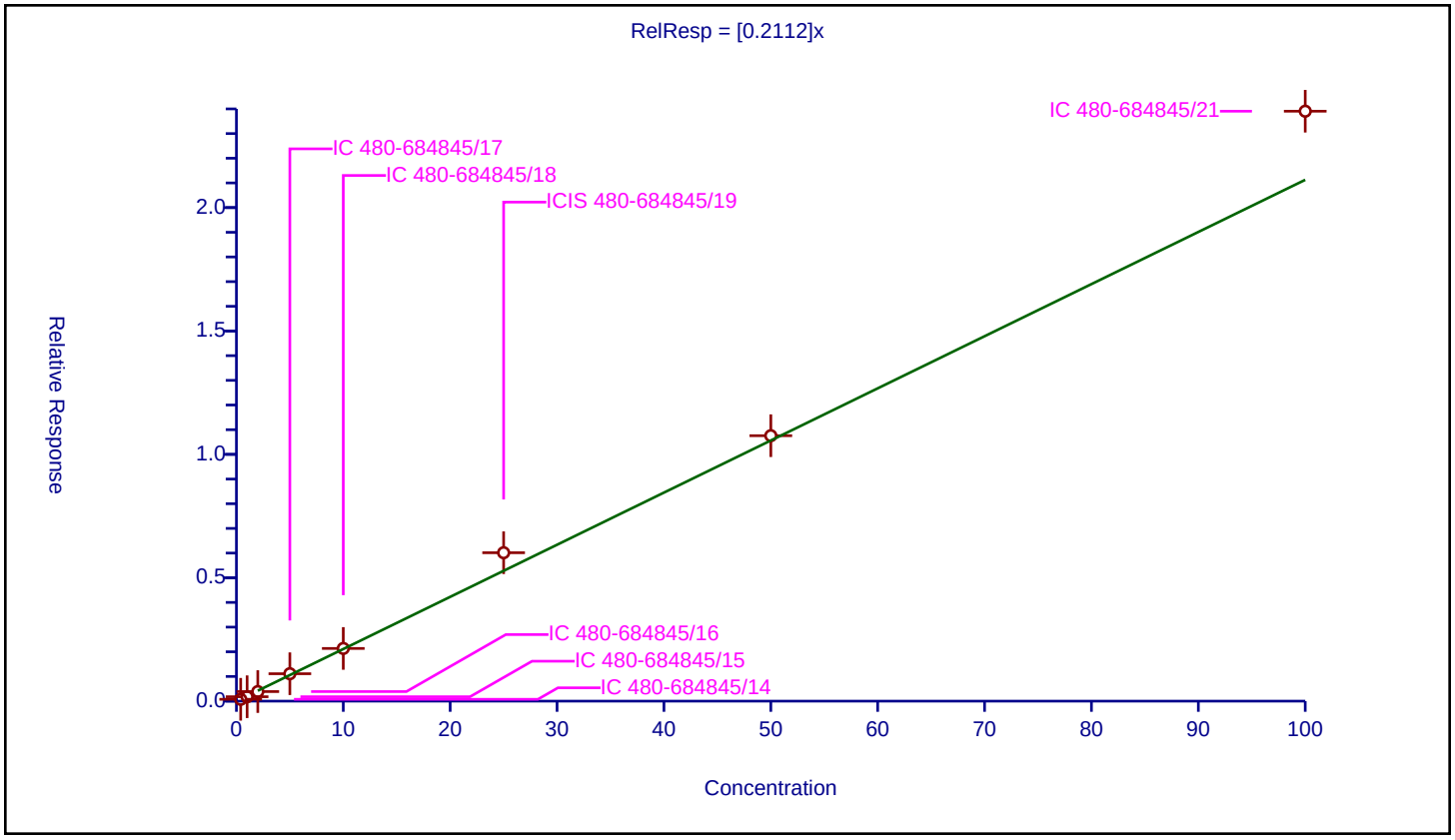
Curve Coefficients

Intercept:	0
Slope:	0.2112

Error Coefficients

Standard Error:	111000
Relative Standard Error:	11.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.074804	25.0	332203.0	0.187009	Y
2	IC 480-684845/15	1.0	0.178359	25.0	308366.0	0.178359	Y
3	IC 480-684845/16	2.0	0.387888	25.0	327801.0	0.193944	Y
4	IC 480-684845/17	5.0	1.111489	25.0	271775.0	0.222298	Y
5	IC 480-684845/18	10.0	2.13589	25.0	268202.0	0.213589	Y
6	ICIS 480-684845/19	25.0	6.014922	25.0	290249.0	0.240597	Y
7	IC 480-684845/20	50.0	10.75663	25.0	271837.0	0.215133	Y
8	IC 480-684845/21	100.0	23.90577	25.0	269733.0	0.239058	Y



10/13/2023
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Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

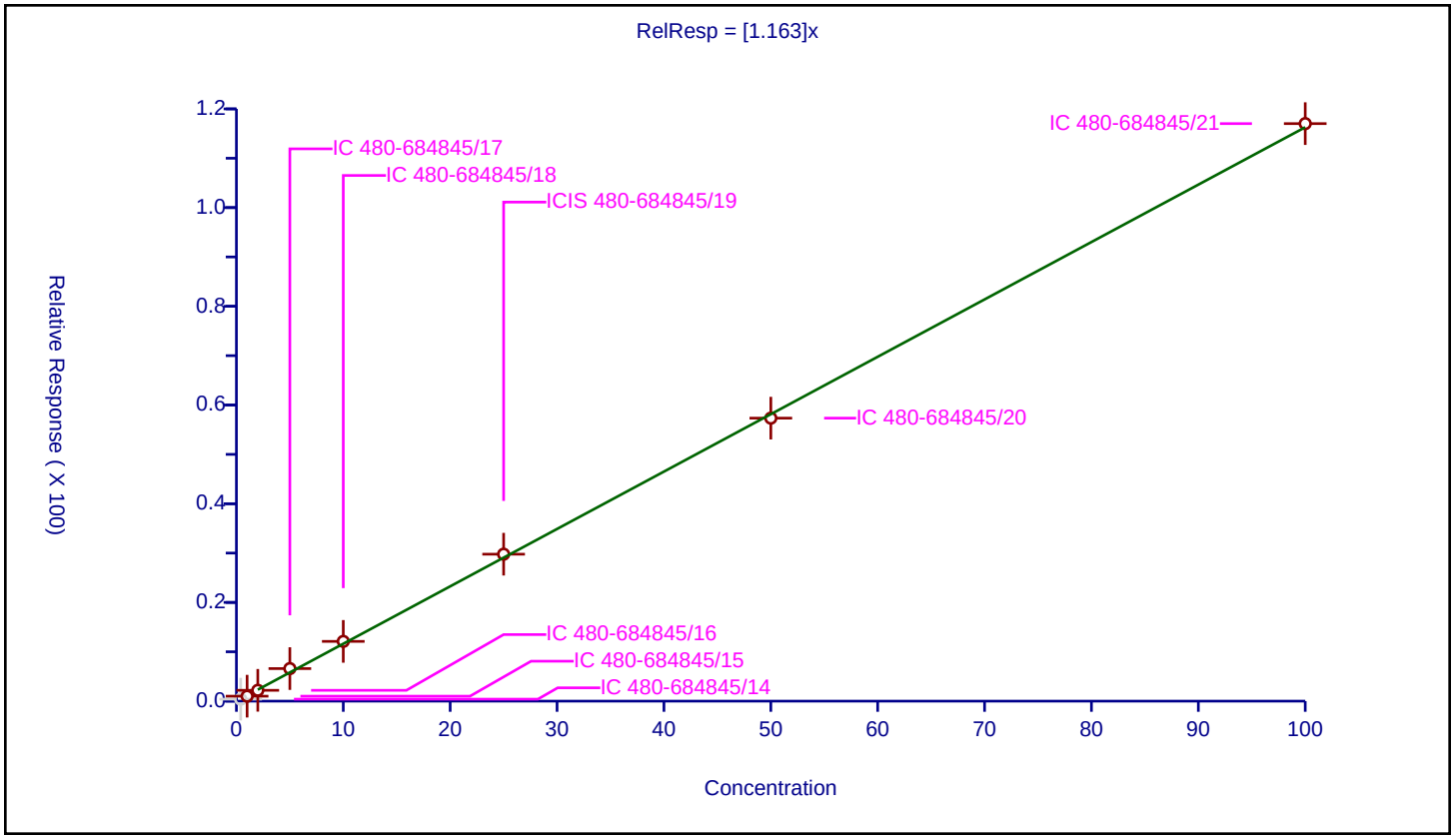
Curve Coefficients

Intercept:	0
Slope:	1.163

Error Coefficients

Standard Error:	595000
Relative Standard Error:	8.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.402088	25.0	332203.0	1.005221	N
2	IC 480-684845/15	1.0	1.00465	25.0	308366.0	1.00465	Y
3	IC 480-684845/16	2.0	2.193404	25.0	327801.0	1.096702	Y
4	IC 480-684845/17	5.0	6.596541	25.0	271775.0	1.319308	Y
5	IC 480-684845/18	10.0	12.108597	25.0	268202.0	1.21086	Y
6	ICIS 480-684845/19	25.0	29.774952	25.0	290249.0	1.190998	Y
7	IC 480-684845/20	50.0	57.34098	25.0	271837.0	1.14682	Y
8	IC 480-684845/21	100.0	117.01692	25.0	269733.0	1.170169	Y



10/13/2023
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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

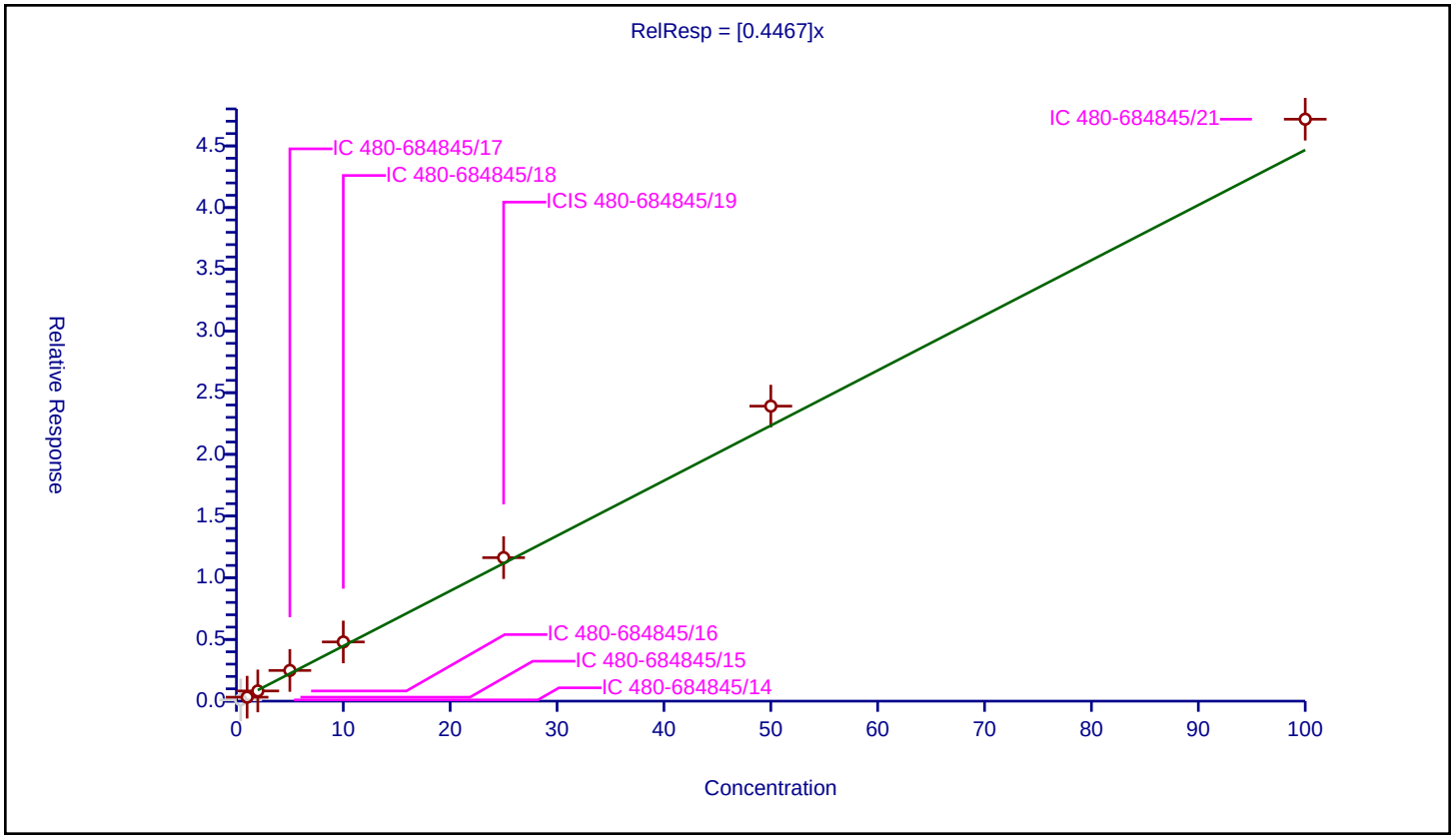
Curve Coefficients

Intercept:	0
Slope:	0.4467

Error Coefficients

Standard Error:	241000
Relative Standard Error:	13.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.100691	25.0	332203.0	0.251729	N
2	IC 480-684845/15	1.0	0.321615	25.0	308366.0	0.321615	Y
3	IC 480-684845/16	2.0	0.826035	25.0	327801.0	0.413017	Y
4	IC 480-684845/17	5.0	2.48772	25.0	271775.0	0.497544	Y
5	IC 480-684845/18	10.0	4.797876	25.0	268202.0	0.479788	Y
6	ICIS 480-684845/19	25.0	11.628981	25.0	290249.0	0.465159	Y
7	IC 480-684845/20	50.0	23.910101	25.0	271837.0	0.478202	Y
8	IC 480-684845/21	100.0	47.163862	25.0	269733.0	0.471639	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

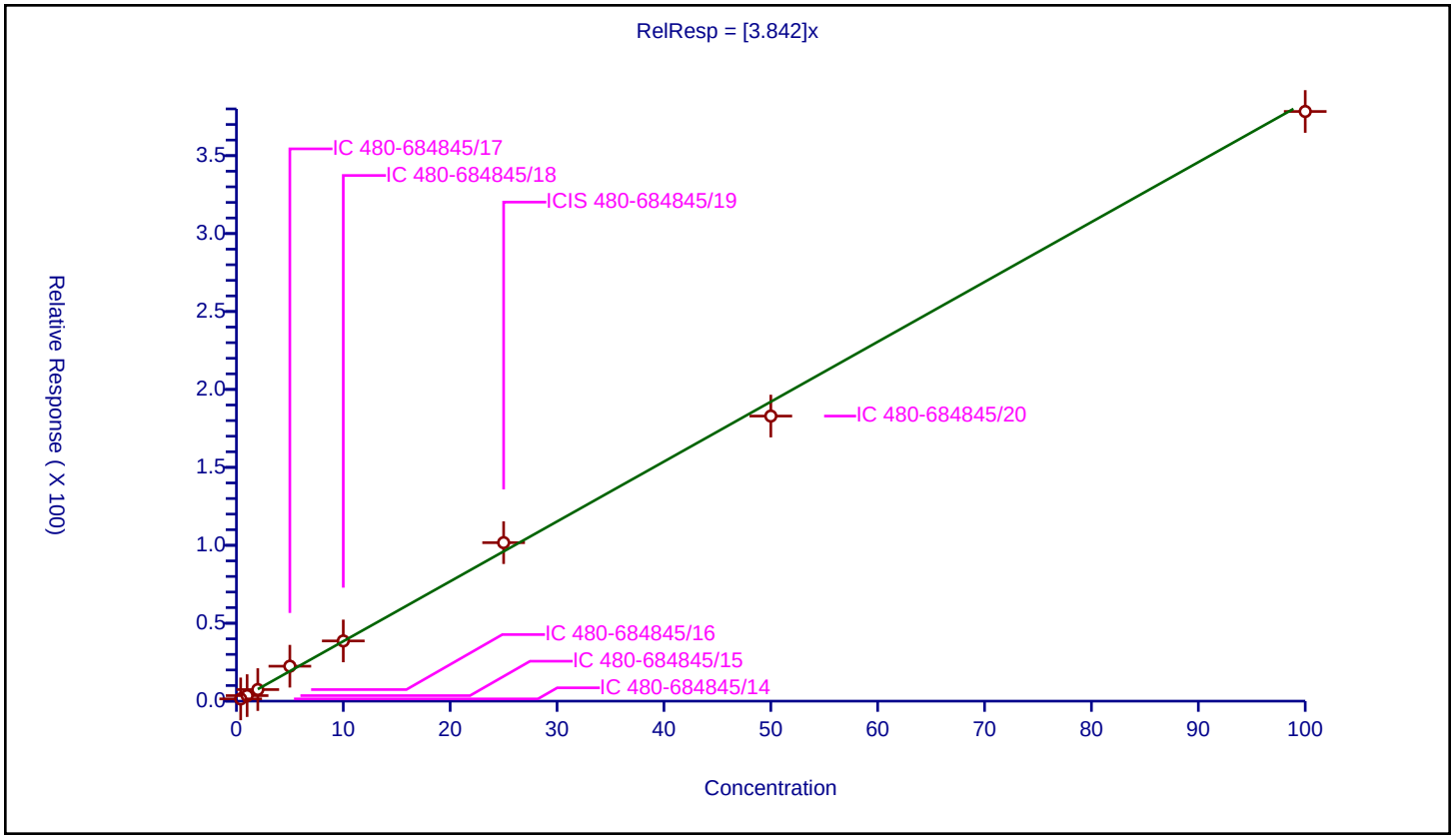
Curve Coefficients

Intercept:	0
Slope:	3.842

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	1.44648	25.0	332203.0	3.6162	Y
2	IC 480-684845/15	1.0	3.553813	25.0	308366.0	3.553813	Y
3	IC 480-684845/16	2.0	7.428592	25.0	327801.0	3.714296	Y
4	IC 480-684845/17	5.0	22.414313	25.0	271775.0	4.482863	Y
5	IC 480-684845/18	10.0	38.621356	25.0	268202.0	3.862136	Y
6	ICIS 480-684845/19	25.0	101.679765	25.0	290249.0	4.067191	Y
7	IC 480-684845/20	50.0	182.907956	25.0	271837.0	3.658159	Y
8	IC 480-684845/21	100.0	378.34275	25.0	269733.0	3.783428	Y



10/13/2023
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Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

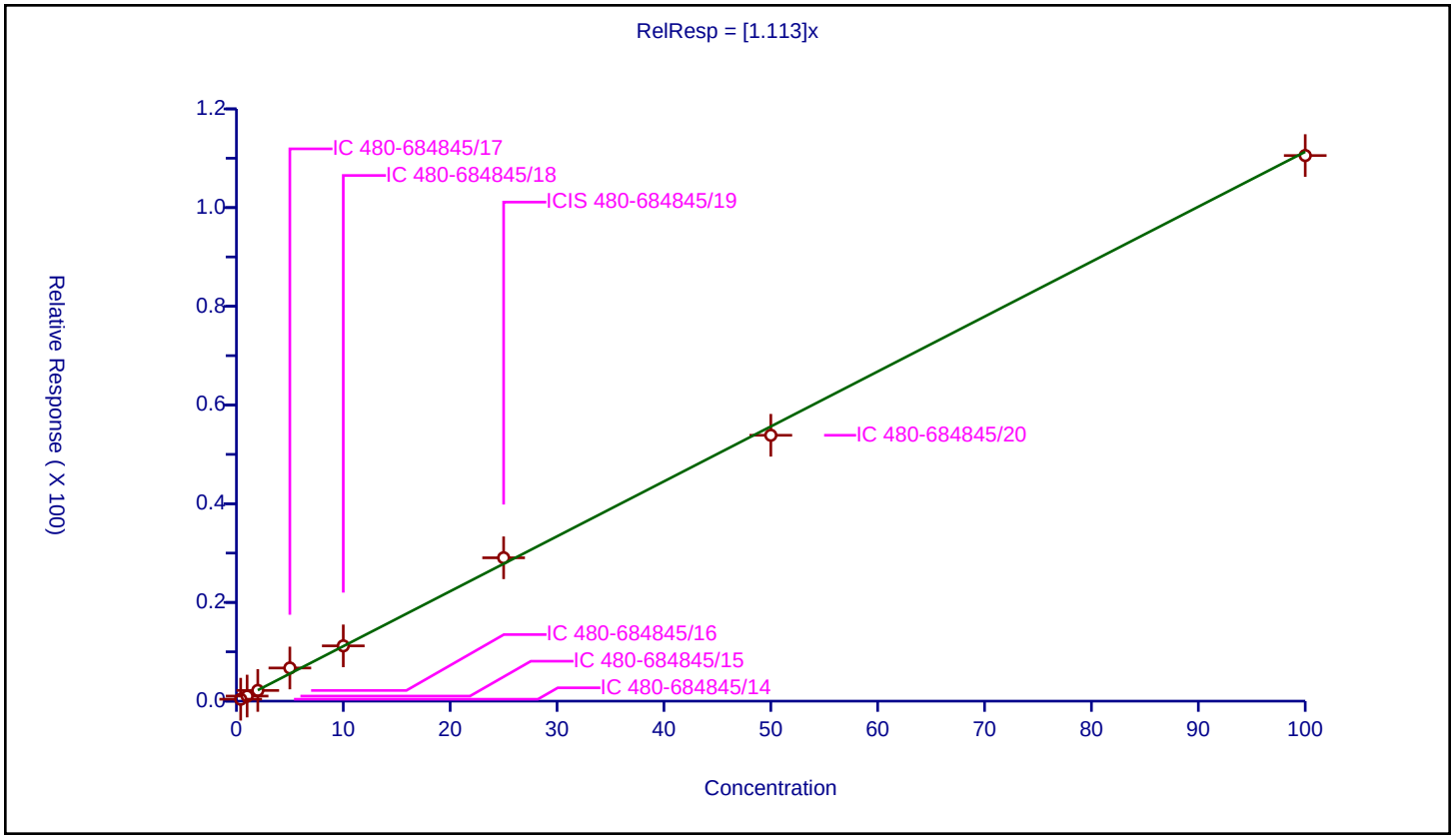
Curve Coefficients

Intercept:	0
Slope:	1.113

Error Coefficients

Standard Error:	521000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-684845/14	0.4	0.393133	25.0	332203.0	0.982833	Y
2	IC 480-684845/15	1.0	1.030026	25.0	308366.0	1.030026	Y
3	IC 480-684845/16	2.0	2.167321	25.0	327801.0	1.083661	Y
4	IC 480-684845/17	5.0	6.717321	25.0	271775.0	1.343464	Y
5	IC 480-684845/18	10.0	11.198276	25.0	268202.0	1.119828	Y
6	ICIS 480-684845/19	25.0	29.046353	25.0	290249.0	1.161854	Y
7	IC 480-684845/20	50.0	53.868771	25.0	271837.0	1.077375	Y
8	IC 480-684845/21	100.0	110.547653	25.0	269733.0	1.105477	Y



10/13/2023
10:08 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-682635/34 Calibration Date: 09/07/2023 23:27

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D3502.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.090	1.990	0.1000	23.8	25.0	-4.8	50.0
Chloromethane	Ave	3.056	2.758	0.1000	22.6	25.0	-9.7	30.0
Vinyl chloride	Ave	2.315	2.235	0.1000	24.1	25.0	-3.4	30.0
Butadiene	Ave	2.170	2.055		23.7	25.0	-5.3	30.0
Bromomethane	Ave	1.386	1.364	0.1000	24.6	25.0	-1.6	50.0
Chloroethane	Ave	1.087	1.053	0.1000	24.2	25.0	-3.2	50.0
Trichlorofluoromethane	Ave	2.121	2.199	0.1000	25.9	25.0	3.7	30.0
Dichlorofluoromethane	Ave	2.601	2.554		24.6	25.0	-1.8	30.0
Ethyl ether	Ave	1.391	1.399		25.1	25.0	0.6	30.0
Acrolein	Ave	0.1737	0.1615		116	125	-7.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.532	1.608	0.1000	26.2	25.0	5.0	30.0
1,1-Dichloroethene	Ave	1.321	1.413	0.1000	26.7	25.0	6.9	30.0
Acetone	Ave	0.6245	0.5811	0.1000	116	125	-6.9	50.0
Iodomethane	Ave	3.300	3.442		26.1	25.0	4.3	30.0
Carbon disulfide	Ave	4.485	4.747	0.1000	26.5	25.0	5.9	30.0
Allyl chloride	Ave	2.524	2.501		24.8	25.0	-0.9	30.0
Methyl acetate	Ave	1.451	1.424	0.1000	49.1	50.0	-1.9	50.0
Methylene Chloride	Lin1		1.652	0.1000	24.8	25.0	-0.7	30.0
2-Methyl-2-propanol	Ave	0.2082	0.2131		256	250	2.3	50.0
Methyl tert-butyl ether	Ave	4.143	4.204	0.1000	25.4	25.0	1.5	30.0
trans-1,2-Dichloroethene	Ave	1.520	1.566	0.1000	25.8	25.0	3.0	30.0
Acrylonitrile	Ave	0.7220	0.7111		246	250	-1.5	30.0
Hexane	Ave	2.004	1.996		24.9	25.0	-0.4	30.0
1,1-Dichloroethane	Ave	2.964	2.963	0.2000	25.0	25.0	-0.0	30.0
Vinyl acetate	Ave	3.198	3.322		51.9	50.0	3.9	30.0
2,2-Dichloropropane	Ave	1.606	1.463		22.8	25.0	-8.9	30.0
cis-1,2-Dichloroethene	Ave	1.687	1.704	0.1000	25.2	25.0	1.0	30.0
2-Butanone (MEK)	Ave	0.8276	0.8108	0.1000	122	125	-2.0	30.0
Chlorobromomethane	Ave	1.042	1.043		25.0	25.0	0.2	30.0
Tetrahydrofuran	Ave	0.5543	0.5550		50.1	50.0	0.1	30.0
Chloroform	Ave	2.960	2.871	0.2000	24.2	25.0	-3.0	30.0
1,1,1-Trichloroethane	Ave	2.145	2.300	0.1000	26.8	25.0	7.2	30.0
Cyclohexane	Ave	2.488	2.596	0.1000	26.1	25.0	4.3	30.0
Carbon tetrachloride	Ave	1.863	2.009	0.1000	27.0	25.0	7.8	30.0
1,1-Dichloropropene	Ave	1.888	1.917		25.4	25.0	1.5	30.0
Benzene	Ave	5.158	5.166	0.5000	25.0	25.0	0.1	30.0
Isobutyl alcohol	Ave	0.0715	0.0742		649	625	3.8	50.0
1,2-Dichloroethane	Ave	2.476	2.374	0.1000	24.0	25.0	-4.1	30.0
n-Heptane	Ave	1.924	1.853		24.1	25.0	-3.7	30.0
Trichloroethene	Ave	1.543	1.554	0.2000	25.2	25.0	0.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-682635/34 | Calibration Date: 09/07/2023 23:27

Instrument ID: HP5975D | Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) | Calib End Date: 09/07/2023 18:19

Lab File ID: D3502.d | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.108	2.208	0.1000	26.2	25.0	4.8	30.0
1,2-Dichloropropane	Ave	1.478	1.486	0.1000	25.1	25.0	0.5	30.0
1,4-Dioxane	Ave	0.0058	0.0052		449	500	-10.1	50.0
Dibromomethane	Ave	1.149	1.141	0.1000	24.8	25.0	-0.7	30.0
Bromodichloromethane	Ave	1.940	2.005	0.2000	25.8	25.0	3.4	30.0
2-Chloroethyl vinyl ether	Ave	0.8694	0.9388		27.0	25.0	8.0	30.0
cis-1,3-Dichloropropene	Ave	2.022	2.128	0.2000	26.3	25.0	5.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7611	0.7682	0.1000	126	125	0.9	30.0
Toluene	Ave	1.426	1.429	0.4000	25.0	25.0	0.2	30.0
trans-1,3-Dichloropropene	Ave	0.8186	0.8750	0.1000	26.7	25.0	6.9	30.0
Ethyl methacrylate	Ave	0.5940	0.6569		27.6	25.0	10.6	30.0
1,1,2-Trichloroethane	Ave	0.5019	0.5051	0.1000	25.2	25.0	0.6	30.0
Tetrachloroethene	Ave	0.7369	0.7454	0.2000	25.3	25.0	1.1	30.0
1,3-Dichloropropane	Ave	0.8748	0.9023		25.8	25.0	3.1	30.0
2-Hexanone	Ave	0.4583	0.4650	0.1000	127	125	1.5	30.0
Dibromochloromethane	Ave	0.7247	0.7921	0.1000	27.3	25.0	9.3	30.0
1,2-Dibromoethane	Ave	0.6823	0.7133		26.1	25.0	4.5	30.0
Chlorobenzene	Ave	1.684	1.705	0.5000	25.3	25.0	1.2	30.0
Ethylbenzene	Ave	2.527	2.598	0.1000	25.7	25.0	2.8	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6591	0.6956		26.4	25.0	5.5	30.0
m,p-Xylene	Ave	1.012	1.031	0.1000	25.5	25.0	1.8	30.0
o-Xylene	Ave	1.079	1.104	0.3000	25.6	25.0	2.4	30.0
Styrene	Ave	1.622	1.650	0.3000	25.4	25.0	1.8	30.0
Bromoform	Ave	0.4587	0.5163	0.1000	28.1	25.0	12.6	50.0
Isopropylbenzene	Ave	2.590	2.558	0.1000	24.7	25.0	-1.2	30.0
Bromobenzene	Ave	0.7680	0.7690		25.0	25.0	0.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8349	0.8104	0.3000	24.3	25.0	-2.9	30.0
1,2,3-Trichloropropane	Ave	0.2133	0.2122		24.9	25.0	-0.5	30.0
N-Propylbenzene	Ave	2.953	2.902		24.6	25.0	-1.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2077	0.2061		24.8	25.0	-0.8	50.0
2-Chlorotoluene	Ave	0.6786	0.6741		24.8	25.0	-0.7	30.0
1,3,5-Trimethylbenzene	Ave	2.153	2.148		24.9	25.0	-0.2	30.0
4-Chlorotoluene	Ave	0.6449	0.6471		25.1	25.0	0.3	30.0
tert-Butylbenzene	Ave	0.4452	0.4553		25.6	25.0	2.3	30.0
1,2,4-Trimethylbenzene	Ave	2.258	2.237		24.8	25.0	-0.9	30.0
sec-Butylbenzene	Ave	2.846	2.814		24.7	25.0	-1.1	30.0
4-Isopropyltoluene	Ave	2.519	2.500		24.8	25.0	-0.8	30.0
1,3-Dichlorobenzene	Ave	1.355	1.330	0.6000	24.5	25.0	-1.9	30.0
1,4-Dichlorobenzene	Ave	1.387	1.354	0.5000	24.4	25.0	-2.4	30.0
n-Butylbenzene	Ave	2.210	2.156		24.4	25.0	-2.4	30.0
1,2-Dichlorobenzene	Ave	1.415	1.391	0.4000	24.6	25.0	-1.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-682635/34 Calibration Date: 09/07/2023 23:27

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D3502.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1483	0.1573	0.0500	26.5	25.0	6.1	50.0
1,2,4-Trichlorobenzene	Ave	1.180	1.173	0.2000	24.9	25.0	-0.6	30.0
Hexachlorobutadiene	Ave	0.5202	0.5381		25.9	25.0	3.4	30.0
Naphthalene	Ave	2.910	2.897		24.9	25.0	-0.5	30.0
1,2,3-Trichlorobenzene	Ave	1.188	1.157		24.3	25.0	-2.6	30.0
Dibromofluoromethane (Surr)	Ave	1.847	1.868		25.3	25.0	1.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9737	0.9720		25.0	25.0	-0.2	30.0
Toluene-d8 (Surr)	Ave	2.276	2.322		25.5	25.0	2.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7743	0.7969		25.7	25.0	2.9	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3502.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 07-Sep-2023 23:27:30 ALS Bottle#: 63 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0113624-034
Operator ID: LH Instrument ID: HP5975D
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:49:28 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 12:27:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	99	135517	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	86	283744	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	94	303612	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.402	4.408	-0.006	95	253133	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	100	131720	25.0	25.0	
$ 5 Toluene-d8 (Surr)	98	6.096	6.097	-0.001	94	658899	25.0	25.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.200	8.206	-0.006	96	226126	25.0	25.7	
10 Dichlorodifluoromethane	85	1.183	1.183	0.000	99	269633	25.0	23.8	
12 Chloromethane	50	1.347	1.354	-0.007	99	373743	25.0	22.6	
13 Vinyl chloride	62	1.439	1.439	0.000	98	302925	25.0	24.1	
144 Butadiene	54	1.451	1.451	0.000	90	278541	25.0	23.7	
14 Bromomethane	94	1.738	1.738	0.000	91	184788	25.0	24.6	
15 Chloroethane	64	1.792	1.793	-0.001	98	142715	25.0	24.2	
16 Dichlorofluoromethane	67	2.012	2.018	-0.006	97	346168	25.0	24.6	
17 Trichlorofluoromethane	101	1.994	2.024	-0.030	97	297969	25.0	25.9	
18 Ethyl ether	59	2.274	2.274	0.000	98	189593	25.0	25.1	
20 Acrolein	56	2.439	2.439	0.000	99	109444	125.0	116.2	
22 1,1-Dichloroethene	96	2.481	2.481	0.000	94	191427	25.0	26.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.481	2.481	0.000	94	217916	25.0	26.2	
23 Acetone	43	2.585	2.585	0.000	99	393766	125.0	116.3	
25 Iodomethane	142	2.634	2.640	-0.006	99	466440	25.0	26.1	
26 Carbon disulfide	76	2.676	2.683	-0.007	100	643304	25.0	26.5	
28 3-Chloro-1-propene	41	2.817	2.823	-0.006	89	338920	25.0	24.8	
27 Methyl acetate	43	2.859	2.865	-0.006	99	385845	50.0	49.1	
30 Methylene Chloride	84	2.951	2.957	-0.006	99	223878	25.0	24.8	
31 2-Methyl-2-propanol	59	3.103	3.109	-0.006	99	288748	250.0	255.8	
32 Methyl tert-butyl ether	73	3.146	3.146	0.000	97	569651	25.0	25.4	
34 trans-1,2-Dichloroethene	96	3.158	3.164	-0.006	94	212152	25.0	25.8	
33 Acrylonitrile	53	3.201	3.207	-0.006	97	963684	250.0	246.2	
35 Hexane	57	3.341	3.341	0.000	94	270446	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.530	3.530	0.000	96	401527	25.0	25.0	
37 Vinyl acetate	43	3.579	3.579	0.000	97	900455	50.0	51.9	
44 2,2-Dichloropropane	77	3.981	3.981	0.000	93	198292	25.0	22.8	
45 cis-1,2-Dichloroethene	96	4.012	4.012	0.000	84	230953	25.0	25.2	
43 2-Butanone (MEK)	43	4.036	4.036	0.000	98	549403	125.0	122.5	
48 Chlorobromomethane	128	4.213	4.213	0.000	97	141377	25.0	25.0	
49 Tetrahydrofuran	42	4.225	4.225	0.000	89	150416	50.0	50.1	
50 Chloroform	83	4.274	4.274	0.000	95	389040	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.371	4.377	-0.006	98	311694	25.0	26.8	
52 Cyclohexane	56	4.383	4.383	0.000	95	351824	25.0	26.1	
55 Carbon tetrachloride	117	4.493	4.493	0.000	98	272193	25.0	27.0	
54 1,1-Dichloropropene	75	4.499	4.499	0.000	94	259784	25.0	25.4	
57 Benzene	78	4.670	4.670	0.000	96	700042	25.0	25.0	
53 Isobutyl alcohol	43	4.670	4.670	0.000	57	251493	625.0	648.6	
58 1,2-Dichloroethane	62	4.719	4.725	-0.006	97	321724	25.0	24.0	
59 n-Heptane	43	4.816	4.816	0.000	96	251059	25.0	24.1	
62 Trichloroethene	95	5.164	5.170	-0.006	96	210627	25.0	25.2	
64 Methylcyclohexane	83	5.267	5.267	0.000	97	299289	25.0	26.2	
65 1,2-Dichloropropane	63	5.359	5.359	0.000	96	201311	25.0	25.1	
66 1,4-Dioxane	88	5.469	5.469	0.000	92	29352	500.0	449.5	M
67 Dibromomethane	93	5.469	5.475	-0.006	95	154651	25.0	24.8	
68 Dichlorobromomethane	83	5.584	5.591	-0.007	97	271779	25.0	25.8	
69 2-Chloroethyl vinyl ether	63	5.804	5.804	0.000	92	127229	25.0	27.0	
72 cis-1,3-Dichloropropene	75	5.914	5.920	-0.006	93	288313	25.0	26.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.023	6.023	0.000	98	1089811	125.0	126.2	
74 Toluene	92	6.145	6.151	-0.006	98	405369	25.0	25.0	
77 trans-1,3-Dichloropropene	75	6.359	6.359	0.000	95	248286	25.0	26.7	
75 Ethyl methacrylate	69	6.383	6.383	0.000	93	186382	25.0	27.6	
79 1,1,2-Trichloroethane	83	6.505	6.511	-0.006	92	143318	25.0	25.2	
81 Tetrachloroethene	166	6.566	6.566	0.000	97	211501	25.0	25.3	
82 1,3-Dichloropropane	76	6.633	6.633	0.000	93	256016	25.0	25.8	
80 2-Hexanone	43	6.670	6.676	-0.006	98	659748	125.0	126.8	
83 Chlorodibromomethane	129	6.822	6.822	0.000	89	224761	25.0	27.3	
84 Ethylene Dibromide	107	6.907	6.907	0.000	98	202392	25.0	26.1	
87 Chlorobenzene	112	7.273	7.273	0.000	99	483892	25.0	25.3	
88 Ethylbenzene	91	7.334	7.334	0.000	98	737178	25.0	25.7	
89 1,1,1,2-Tetrachloroethane	131	7.340	7.340	0.000	97	197370	25.0	26.4	
90 m-Xylene & p-Xylene	106	7.426	7.426	0.000	99	292472	25.0	25.5	
91 o-Xylene	106	7.755	7.755	0.000	97	313341	25.0	25.6	
92 Styrene	104	7.773	7.779	-0.006	96	468248	25.0	25.4	
95 Bromoform	173	7.968	7.974	-0.006	96	146510	25.0	28.1	
94 Isopropylbenzene	105	8.041	8.041	0.000	96	776747	25.0	24.7	
101 Bromobenzene	156	8.328	8.334	-0.006	89	233475	25.0	25.0	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.352	0.000	94	246037	25.0	24.3	
99 N-Propylbenzene	91	8.383	8.383	0.000	99	881052	25.0	24.6	
100 1,2,3-Trichloropropane	110	8.383	8.389	-0.006	86	64422	25.0	24.9	
98 trans-1,4-Dichloro-2-butene	53	8.389	8.389	0.000	81	62576	25.0	24.8	
103 2-Chlorotoluene	126	8.474	8.474	0.000	98	204651	25.0	24.8	
102 1,3,5-Trimethylbenzene	105	8.523	8.523	0.000	94	652176	25.0	24.9	
105 4-Chlorotoluene	126	8.566	8.566	0.000	96	196459	25.0	25.1	
106 tert-Butylbenzene	134	8.791	8.791	0.000	93	138236	25.0	25.6	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	97	679078	25.0	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	854383	25.0	24.7	
110 4-Isopropyltoluene	119	9.090	9.090	0.000	98	758917	25.0	24.8	
111 1,3-Dichlorobenzene	146	9.102	9.102	0.000	99	403859	25.0	24.5	
113 1,4-Dichlorobenzene	146	9.175	9.181	-0.006	96	411109	25.0	24.4	
115 n-Butylbenzene	91	9.437	9.437	0.000	98	654600	25.0	24.4	
116 1,2-Dichlorobenzene	146	9.498	9.498	0.000	99	422248	25.0	24.6	
117 1,2-Dibromo-3-Chloropropane	75	10.175	10.175	0.000	88	47771	25.0	26.5	
119 1,2,4-Trichlorobenzene	180	10.839	10.840	-0.001	95	356080	25.0	24.9	
120 Hexachlorobutadiene	225	10.943	10.949	-0.006	97	163368	25.0	25.9	
121 Naphthalene	128	11.047	11.053	-0.006	97	879484	25.0	24.9	
122 1,2,3-Trichlorobenzene	180	11.242	11.248	-0.006	96	351240	25.0	24.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SS 8260 CORP_00109	Amount Added:	12.50	Units: uL	
SS GAS CORP_00535	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

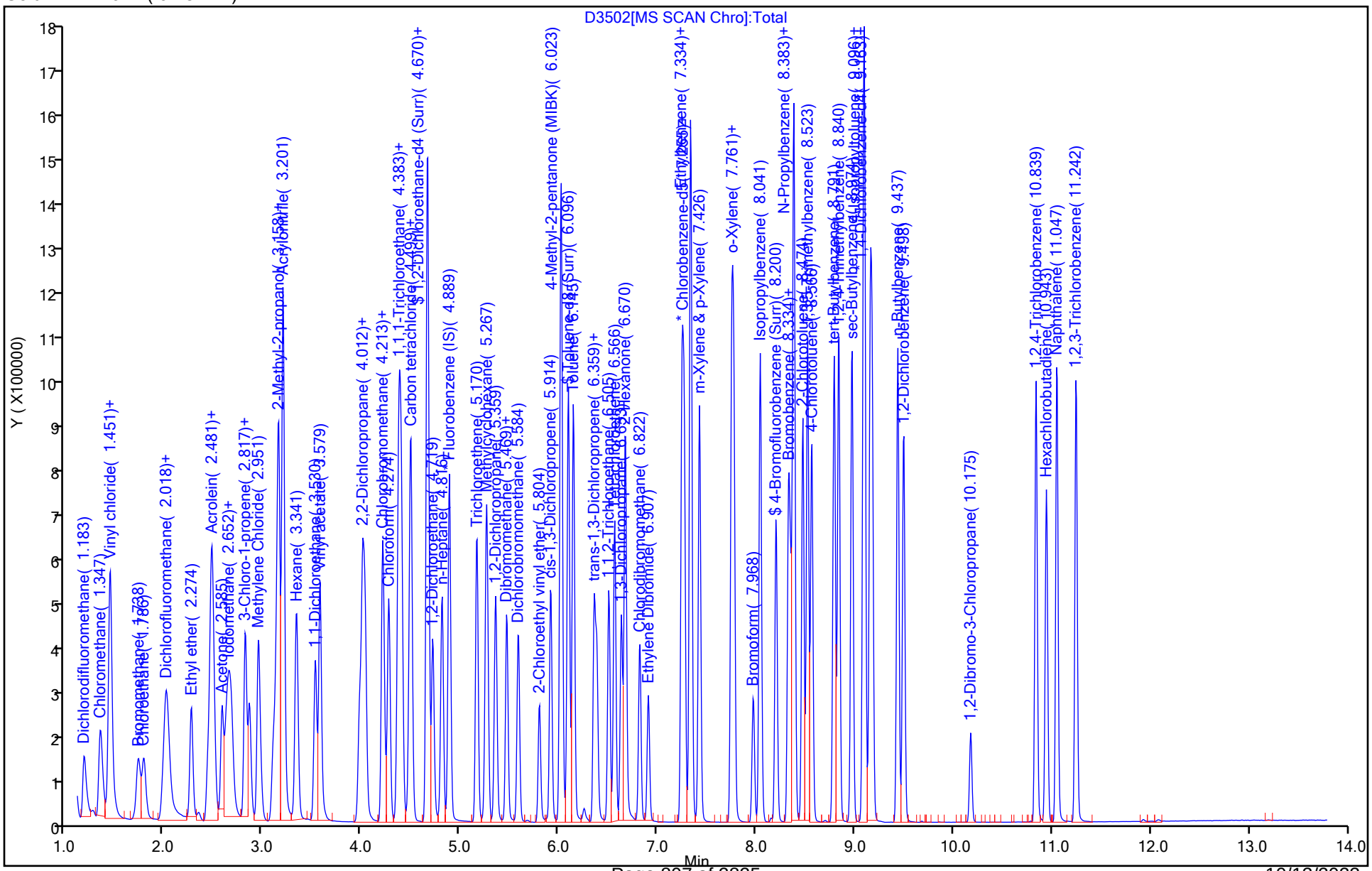
Report Date: 08-Sep-2023 12:49:39 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3502.d

Injection Date:	07-Sep-2023 23:27:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	ICV			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	63
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo

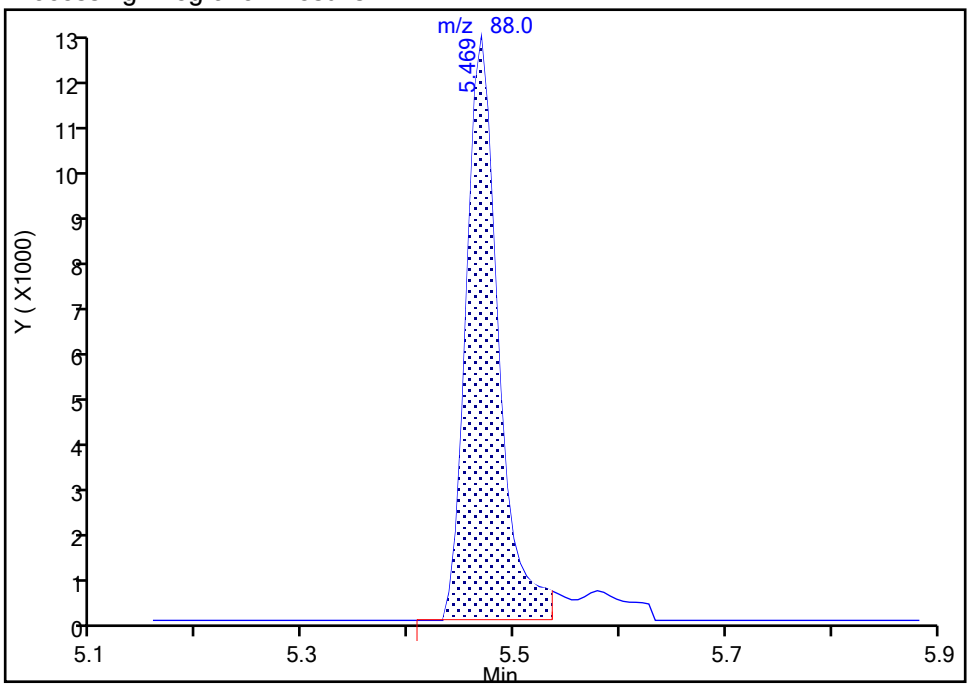
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3502.d
Injection Date: 07-Sep-2023 23:27:30 Instrument ID: HP5975D
Lims ID: ICV
Client ID:
Operator ID: LH ALS Bottle#: 63 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

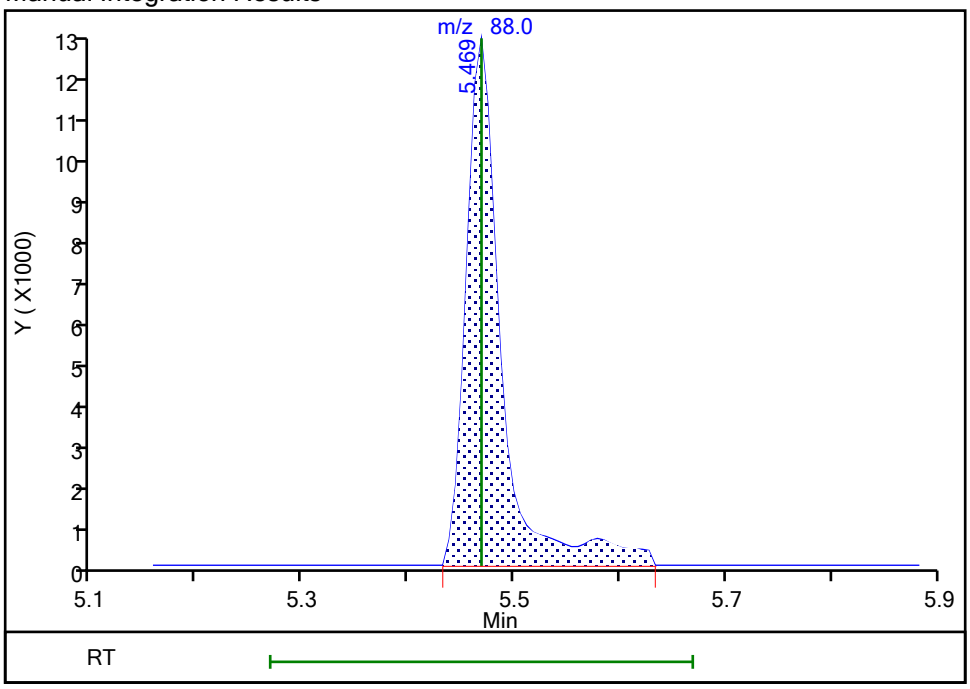
Processing Integration Results

RT: 5.47
Area: 26709
Amount: 409.0054
Amount Units: ug/L



Manual Integration Results

RT: 5.47
Area: 29352
Amount: 449.4787
Amount Units: ug/L



Reviewer: WLL8, 08-Sep-2023 12:27:51 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-682635/35 Calibration Date: 09/07/2023 23:49

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D3503.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	1.847	1.893		25.6	25.0	2.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9737	1.064		27.3	25.0	9.3	30.0
Toluene-d8 (Surr)	Ave	2.276	2.348		25.8	25.0	3.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7743	0.8018		25.9	25.0	3.6	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3503.d
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 07-Sep-2023 23:49:30 ALS Bottle#: 64 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0113624-035
Operator ID: LH Instrument ID: HP5975D
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:49:28 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 12:29:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	99	133117	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	266322	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	96	304600	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	92	251937	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	99	141698	25.0	27.3	
$ 5 Toluene-d8 (Surr)	98	6.097	6.097	0.000	94	625269	25.0	25.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.200	8.206	-0.006	95	213540	25.0	25.9	
11 Chlorodifluoromethane	51	1.207	1.207	0.000	98	353541	25.0	29.4	
141 Ethanol	45	2.286	2.286	0.000	97	103655	1000.0	1007.0	
19 Propene oxide	58	2.353	2.353	0.000	96	312181	NC	NC	
24 Isopropyl alcohol	45	2.762	2.762	0.000	99	177843	250.0	263.6	
29 Acetonitrile	40	2.865	2.871	-0.006	99	162668	250.0	248.8	
36 Isopropyl ether	45	3.548	3.548	0.000	96	780994	25.0	26.7	
132 Halothane	117	3.567	3.566	0.001	91	155880	25.0	29.3	
40 2-Chloro-1,3-butadiene	53	3.585	3.585	0.000	94	382598	25.0	29.5	
38 1,1-Dimethoxyethane	75	3.609	3.609	0.000	99	216227	125.0	133.3	
41 Tert-butyl ethyl ether	59	3.841	3.841	0.000	99	719578	25.0	26.6	
42 Ethyl acetate	43	4.066	4.066	0.000	99	437597	50.0	49.4	
46 Propionitrile	54	4.121	4.121	0.000	99	387587	250.0	257.7	
47 Methacrylonitrile	41	4.219	4.219	0.000	95	1556730	250.0	244.4	
146 Isooctane	57	4.664	4.670	-0.006	96	785921	25.0	28.4	
140 t-Amyl alcohol	59	4.719	4.719	0.000	74	246316	250.0	273.7	
56 Tert-amyl methyl ether	73	4.725	4.725	0.000	93	665276	25.0	26.5	
1 1,4-Difluorobenzene	114	4.975	4.975	0.000	94	580265	25.0	27.8	
154 2,4,4-Trimethyl-1-pentene	55	5.072	5.072	0.000	99	146323	NC	NC	
60 n-Butanol	56	5.170	5.176	-0.006	91	126065	625.0	579.3	
145 Ethyl acrylate	55	5.261	5.261	0.000	98	565620	25.0	27.0	
153 2,4,4-Trimethyl-2-pentene	97	5.261	5.261	0.000	95	335592	NC	NC	
63 Methyl methacrylate	41	5.426	5.432	-0.006	94	320528	50.0	49.9	
70 2-Nitropropane	43	5.780	5.779	0.001	98	70610	50.0	52.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 Epichlorohydrin	57	5.877	5.877	0.000	99	214994	250.0	259.1	
155 n-Butyl acetate	43	6.749	6.755	-0.006	98	239013	25.0	25.3	
139 1-Chlorohexane	55	7.218	7.218	0.000	96	166167	25.0	25.9	
85 3-Chlorobenzotrifluoride	180	7.230	7.230	0.000	94	303540	25.0	29.0	
86 4-Chlorobenzotrifluoride	180	7.273	7.273	0.000	95	265184	25.0	27.7	
93 2-Chlorobenzotrifluoride	180	7.980	7.980	0.000	98	323607	25.0	28.5	
96 Cyclohexanone	55	8.181	8.181	0.000	95	79278	250.0	241.8	
104 3-Chlorotoluene	126	8.523	8.529	-0.006	96	216040	25.0	27.2	
108 Pentachloroethane	167	8.846	8.846	0.000	87	116002	25.0	27.8	
114 Dicyclopentadiene	66	9.163	9.163	0.000	97	1018951	25.0	26.4	
112 1,2,3-Trimethylbenzene	105	9.193	9.200	-0.007	99	777949	25.0	27.6	
143 Benzyl chloride	91	9.303	9.303	0.000	99	275612	25.0	26.1	
118 1,3,5-Trichlorobenzene	180	10.309	10.309	0.000	98	389718	25.0	27.5	
142 2-Methylnaphthalene	142	11.925	11.925	0.000	93	600628	25.0	27.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3_MCP_Add_WRK_00413	Amount Added: 12.50	Units: uL	
SS ADD CORP_00087	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added: 1.00	Units: uL	Run Reagent

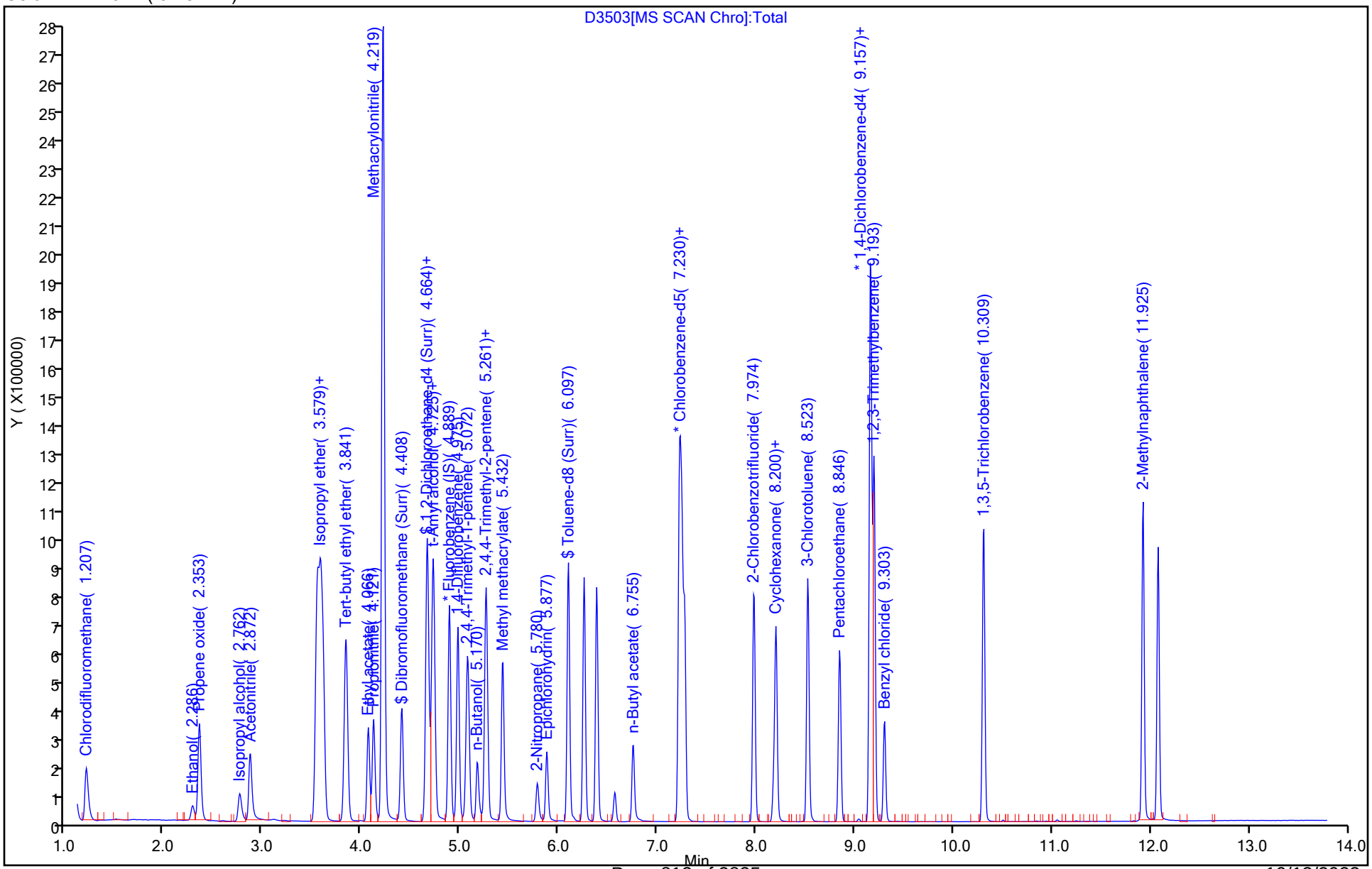
Report Date: 08-Sep-2023 12:49:52 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3503.d

Injection Date:	07-Sep-2023 23:49:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	ICV ADD			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	64
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-682635/35 | Calibration Date: 09/07/2023 23:49

Instrument ID: HP5975D | Calib Start Date: 09/07/2023 20:09

GC Column: ZB-624 (20) ID: 0.18(mm) | Calib End Date: 09/07/2023 22:21

Lab File ID: D3503.d | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	2.261	2.656		29.4	25.0	17.5	30.0
Ethanol	Ave	0.0193	0.0195		1010	1000	0.7	30.0
Isopropyl alcohol	Ave	0.1267	0.1336		264	250	5.4	30.0
Acetonitrile	Ave	0.1228	0.1222		249	250	-0.5	30.0
Isopropyl ether	Ave	5.489	5.867		26.7	25.0	6.9	30.0
Halothane	None				29.3	25.0	17.1	30.0
Chloroprene	Ave	2.433	2.874		29.5	25.0	18.1	30.0
1,1-Dimethoxyethane	Ave	0.3046	0.3249		133	125	6.7	30.0
Tert-butyl ethyl ether	Ave	5.077	5.406		26.6	25.0	6.5	30.0
Ethyl acetate	Ave	1.665	1.644		49.4	50.0	-1.3	30.0
Propionitrile	Ave	0.2824	0.2912		258	250	3.1	30.0
Methacrylonitrile	Ave	1.196	1.169		244	250	-2.2	30.0
Isooctane	Ave	5.193	5.904		28.4	25.0	13.7	30.0
t-Amyl alcohol	Ave	0.1690	0.1850		274	250	9.5	30.0
Tert-amyl methyl ether	Ave	4.721	4.998		26.5	25.0	5.9	30.0
1,4-Difluorobenzene	Ave	3.914	4.359		27.8	25.0	11.4	30.0
n-Butanol	Lin1		0.0379		579	625	-7.3	30.0
Ethyl acrylate	Ave	3.938	4.249		27.0	25.0	7.9	30.0
Methyl methacrylate	Ave	1.206	1.204		49.9	50.0	-0.2	30.0
2-Nitropropane	Ave	0.1098	0.1159		52.8	50.0	5.6	30.0
Epichlorohydrin	Ave	0.1558	0.1615		259	250	3.7	30.0
n-Butyl acetate	Ave	0.8858	0.8975	0.1000	25.3	25.0	1.3	30.0
1-Chlorohexane	Lin1		0.6239		25.9	25.0	3.5	30.0
3-Chlorobenzotrifluoride	Ave	0.8583	0.997		29.0	25.0	16.1	30.0
4-Chlorobenzotrifluoride	Ave	0.7869	0.8706		27.7	25.0	10.6	30.0
2-Chlorobenzotrifluoride	Ave	0.9315	1.062		28.5	25.0	14.0	30.0
Cyclohexanone	Ave	0.0269	0.0260		242	250	-3.3	30.0
3-Chlorotoluene	Ave	0.6513	0.7093		27.2	25.0	8.9	30.0
Pentachloroethane	Ave	0.3419	0.3808		27.8	25.0	11.4	30.0
Dicyclopentadiene	Ave	3.168	3.345		26.4	25.0	5.6	30.0
1,2,3-Trimethylbenzene	Ave	2.315	2.554		27.6	25.0	10.3	30.0
Benzyl chloride	Ave	0.8677	0.9048		26.1	25.0	4.3	30.0
1,3,5-Trichlorobenzene	Ave	1.161	1.279		27.5	25.0	10.2	30.0
2-Methylnaphthalene	Ave	1.800	1.972		27.4	25.0	9.5	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3503.d
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 07-Sep-2023 23:49:30 ALS Bottle#: 64 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0113624-035
Operator ID: LH Instrument ID: HP5975D
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:49:28 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 08-Sep-2023 12:29:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.889	4.889	0.000	99	133117	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	266322	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.157	9.157	0.000	96	304600	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.408	0.000	92	251937	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.664	0.000	99	141698	25.0	27.3	
$ 5 Toluene-d8 (Surr)	98	6.097	6.097	0.000	94	625269	25.0	25.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.200	8.206	-0.006	95	213540	25.0	25.9	
11 Chlorodifluoromethane	51	1.207	1.207	0.000	98	353541	25.0	29.4	
141 Ethanol	45	2.286	2.286	0.000	97	103655	1000.0	1007.0	
19 Propene oxide	58	2.353	2.353	0.000	96	312181	NC	NC	
24 Isopropyl alcohol	45	2.762	2.762	0.000	99	177843	250.0	263.6	
29 Acetonitrile	40	2.865	2.871	-0.006	99	162668	250.0	248.8	
36 Isopropyl ether	45	3.548	3.548	0.000	96	780994	25.0	26.7	
132 Halothane	117	3.567	3.566	0.001	91	155880	25.0	29.3	
40 2-Chloro-1,3-butadiene	53	3.585	3.585	0.000	94	382598	25.0	29.5	
38 1,1-Dimethoxyethane	75	3.609	3.609	0.000	99	216227	125.0	133.3	
41 Tert-butyl ethyl ether	59	3.841	3.841	0.000	99	719578	25.0	26.6	
42 Ethyl acetate	43	4.066	4.066	0.000	99	437597	50.0	49.4	
46 Propionitrile	54	4.121	4.121	0.000	99	387587	250.0	257.7	
47 Methacrylonitrile	41	4.219	4.219	0.000	95	1556730	250.0	244.4	
146 Isooctane	57	4.664	4.670	-0.006	96	785921	25.0	28.4	
140 t-Amyl alcohol	59	4.719	4.719	0.000	74	246316	250.0	273.7	
56 Tert-amyl methyl ether	73	4.725	4.725	0.000	93	665276	25.0	26.5	
1 1,4-Difluorobenzene	114	4.975	4.975	0.000	94	580265	25.0	27.8	
154 2,4,4-Trimethyl-1-pentene	55	5.072	5.072	0.000	99	146323	NC	NC	
60 n-Butanol	56	5.170	5.176	-0.006	91	126065	625.0	579.3	
145 Ethyl acrylate	55	5.261	5.261	0.000	98	565620	25.0	27.0	
153 2,4,4-Trimethyl-2-pentene	97	5.261	5.261	0.000	95	335592	NC	NC	
63 Methyl methacrylate	41	5.426	5.432	-0.006	94	320528	50.0	49.9	
70 2-Nitropropane	43	5.780	5.779	0.001	98	70610	50.0	52.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 Epichlorohydrin	57	5.877	5.877	0.000	99	214994	250.0	259.1	
155 n-Butyl acetate	43	6.749	6.755	-0.006	98	239013	25.0	25.3	
139 1-Chlorohexane	55	7.218	7.218	0.000	96	166167	25.0	25.9	
85 3-Chlorobenzotrifluoride	180	7.230	7.230	0.000	94	303540	25.0	29.0	
86 4-Chlorobenzotrifluoride	180	7.273	7.273	0.000	95	265184	25.0	27.7	
93 2-Chlorobenzotrifluoride	180	7.980	7.980	0.000	98	323607	25.0	28.5	
96 Cyclohexanone	55	8.181	8.181	0.000	95	79278	250.0	241.8	
104 3-Chlorotoluene	126	8.523	8.529	-0.006	96	216040	25.0	27.2	
108 Pentachloroethane	167	8.846	8.846	0.000	87	116002	25.0	27.8	
114 Dicyclopentadiene	66	9.163	9.163	0.000	97	1018951	25.0	26.4	
112 1,2,3-Trimethylbenzene	105	9.193	9.200	-0.007	99	777949	25.0	27.6	
143 Benzyl chloride	91	9.303	9.303	0.000	99	275612	25.0	26.1	
118 1,3,5-Trichlorobenzene	180	10.309	10.309	0.000	98	389718	25.0	27.5	
142 2-Methylnaphthalene	142	11.925	11.925	0.000	93	600628	25.0	27.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3_MCP_Add_WRK_00413	Amount Added: 12.50	Units: uL	
SS ADD CORP_00087	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added: 1.00	Units: uL	Run Reagent

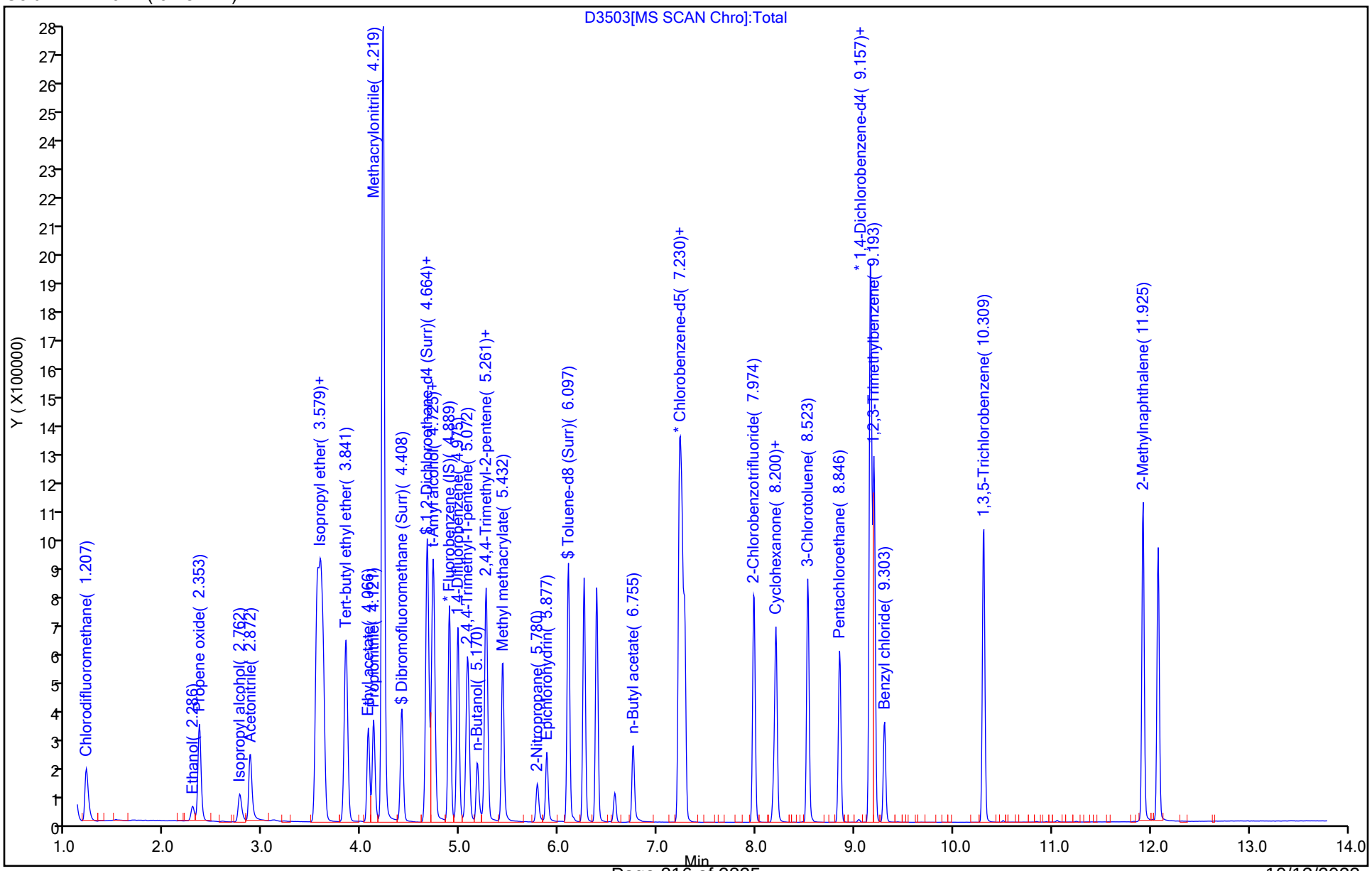
Report Date: 08-Sep-2023 12:49:52 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3503.d

Injection Date:	07-Sep-2023 23:49:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	ICV ADD			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	64
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685071/4 Calibration Date: 09/26/2023 21:36

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D4236.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.090	1.747	0.1000	20.9	25.0	-16.4	50.0
Chloromethane	Ave	3.056	2.579	0.1000	21.1	25.0	-15.6	20.0
Vinyl chloride	Ave	2.315	2.199	0.1000	23.8	25.0	-5.0	20.0
Butadiene	Ave	2.170	2.290		26.4	25.0	5.6	20.0
Bromomethane	Ave	1.386	1.344	0.1000	24.3	25.0	-3.0	50.0
Chloroethane	Ave	1.087	0.9837	0.1000	22.6	25.0	-9.5	50.0
Dichlorofluoromethane	Ave	2.601	2.840		27.3	25.0	9.2	20.0
Trichlorofluoromethane	Ave	2.121	2.187	0.1000	25.8	25.0	3.1	20.0
Ethyl ether	Ave	1.391	1.293		23.2	25.0	-7.1	20.0
Acrolein	Ave	0.1737	0.1615		116	125	-7.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.532	1.648	0.1000	26.9	25.0	7.6	20.0
1,1-Dichloroethene	Ave	1.321	1.407	0.1000	26.6	25.0	6.5	20.0
Acetone	Ave	0.6245	0.6211	0.1000	124	125	-0.6	50.0
Iodomethane	Ave	3.300	3.241		24.6	25.0	-1.8	20.0
Carbon disulfide	Ave	4.485	4.786	0.1000	26.7	25.0	6.7	20.0
Allyl chloride	Ave	2.524	2.450		24.3	25.0	-3.0	20.0
Methyl acetate	Ave	1.451	1.550	0.1000	53.4	50.0	6.8	50.0
Methylene Chloride	Lin1		1.624	0.1000	24.4	25.0	-2.4	20.0
2-Methyl-2-propanol	Ave	0.2082	0.2318		278	250	11.3	50.0
Methyl tert-butyl ether	Ave	4.143	3.993	0.1000	24.1	25.0	-3.6	20.0
trans-1,2-Dichloroethene	Ave	1.520	1.488	0.1000	24.5	25.0	-2.1	20.0
Acrylonitrile	Ave	0.7220	0.7834		271	250	8.5	20.0
Hexane	Ave	2.004	2.206		27.5	25.0	10.1	20.0
1,1-Dichloroethane	Ave	2.964	2.847	0.2000	24.0	25.0	-4.0	20.0
Vinyl acetate	Ave	3.198	3.544		55.4	50.0	10.8	20.0
2,2-Dichloropropane	Ave	1.606	1.480		23.0	25.0	-7.8	20.0
cis-1,2-Dichloroethene	Ave	1.687	1.619	0.1000	24.0	25.0	-4.1	20.0
2-Butanone (MEK)	Ave	0.8276	0.9079	0.1000	137	125	9.7	20.0
Chlorobromomethane	Ave	1.042	0.9854		23.6	25.0	-5.4	20.0
Tetrahydrofuran	Ave	0.5543	0.5944		53.6	50.0	7.2	20.0
Chloroform	Ave	2.960	2.704	0.2000	22.8	25.0	-8.6	20.0
1,1,1-Trichloroethane	Ave	2.145	2.175	0.1000	25.4	25.0	1.4	20.0
Cyclohexane	Ave	2.488	2.591	0.1000	26.0	25.0	4.1	20.0
Carbon tetrachloride	Ave	1.863	2.018	0.1000	27.1	25.0	8.3	20.0
1,1-Dichloropropene	Ave	1.888	1.870		24.8	25.0	-1.0	20.0
Benzene	Ave	5.158	5.108	0.5000	24.8	25.0	-1.0	20.0
Isobutyl alcohol	Ave	0.0715	0.0870		760	625	21.7	50.0
1,2-Dichloroethane	Ave	2.476	2.314	0.1000	23.4	25.0	-6.6	20.0
n-Heptane	Ave	1.924	2.184		28.4	25.0	13.5	20.0
Trichloroethene	Ave	1.543	1.516	0.2000	24.6	25.0	-1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685071/4 | Calibration Date: 09/26/2023 21:36

Instrument ID: HP5975D | Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) | Calib End Date: 09/07/2023 18:19

Lab File ID: D4236.d | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.108	2.137	0.1000	25.3	25.0	1.4	20.0
1,2-Dichloropropane	Ave	1.478	1.507	0.1000	25.5	25.0	2.0	20.0
1,4-Dioxane	Ave	0.0058	0.0066		576	500	15.1	50.0
Dibromomethane	Ave	1.149	1.114	0.1000	24.2	25.0	-3.0	20.0
Bromodichloromethane	Ave	1.940	1.996	0.2000	25.7	25.0	2.9	20.0
2-Chloroethyl vinyl ether	Ave	0.8694	1.031		29.6	25.0	18.6	20.0
cis-1,3-Dichloropropene	Ave	2.022	2.134	0.2000	26.4	25.0	5.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7611	0.8633	0.1000	142	125	13.4	20.0
Toluene	Ave	1.426	1.434	0.4000	25.1	25.0	0.6	20.0
trans-1,3-Dichloropropene	Ave	0.8186	0.8968	0.1000	27.4	25.0	9.5	20.0
Ethyl methacrylate	Ave	0.5940	0.7383		31.1	25.0	24.3*	20.0
1,1,2-Trichloroethane	Ave	0.5019	0.5260	0.1000	26.2	25.0	4.8	20.0
Tetrachloroethene	Ave	0.7369	0.7279	0.2000	24.7	25.0	-1.2	20.0
1,3-Dichloropropane	Ave	0.8748	0.9362		26.8	25.0	7.0	20.0
2-Hexanone	Ave	0.4583	0.5545	0.1000	151	125	21.0*	20.0
Dibromochloromethane	Ave	0.7247	0.8188	0.1000	28.2	25.0	13.0	20.0
1,2-Dibromoethane	Ave	0.6823	0.7251		26.6	25.0	6.3	20.0
Chlorobenzene	Ave	1.684	1.684	0.5000	25.0	25.0	-0.0	20.0
Ethylbenzene	Ave	2.527	2.633	0.1000	26.0	25.0	4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6591	0.6779		25.7	25.0	2.9	20.0
m,p-Xylene	Ave	1.012	1.037	0.1000	25.6	25.0	2.4	20.0
o-Xylene	Ave	1.079	1.071	0.3000	24.8	25.0	-0.7	20.0
Styrene	Ave	1.622	1.692	0.3000	26.1	25.0	4.3	20.0
Bromoform	Ave	0.4587	0.5649	0.1000	30.8	25.0	23.2	50.0
Isopropylbenzene	Ave	2.590	2.549	0.1000	24.6	25.0	-1.6	20.0
Bromobenzene	Ave	0.7680	0.7842		25.5	25.0	2.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8349	0.8877	0.3000	26.6	25.0	6.3	20.0
1,2,3-Trichloropropane	Ave	0.2133	0.2291		26.9	25.0	7.4	20.0
N-Propylbenzene	Ave	2.953	3.038		25.7	25.0	2.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2077	0.1755		21.1	25.0	-15.5	50.0
2-Chlorotoluene	Ave	0.6786	0.6766		24.9	25.0	-0.3	20.0
1,3,5-Trimethylbenzene	Ave	2.153	2.178		25.3	25.0	1.1	20.0
4-Chlorotoluene	Ave	0.6449	0.6761		26.2	25.0	4.8	20.0
tert-Butylbenzene	Ave	0.4452	0.4433		24.9	25.0	-0.4	20.0
1,2,4-Trimethylbenzene	Ave	2.258	2.250		24.9	25.0	-0.3	20.0
sec-Butylbenzene	Ave	2.846	2.849		25.0	25.0	0.1	20.0
4-Isopropyltoluene	Ave	2.519	2.470		24.5	25.0	-2.0	20.0
1,3-Dichlorobenzene	Ave	1.355	1.369	0.6000	25.3	25.0	1.0	20.0
1,4-Dichlorobenzene	Ave	1.387	1.387	0.5000	25.0	25.0	-0.0	20.0
n-Butylbenzene	Ave	2.210	2.193		24.8	25.0	-0.8	20.0
1,2-Dichlorobenzene	Ave	1.415	1.372	0.4000	24.2	25.0	-3.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685071/4 Calibration Date: 09/26/2023 21:36

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D4236.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1483	0.1571	0.0500	26.5	25.0	5.9	50.0
1,2,4-Trichlorobenzene	Ave	1.180	1.062	0.2000	22.5	25.0	-10.0	20.0
Hexachlorobutadiene	Ave	0.5202	0.4990		24.0	25.0	-4.1	20.0
Naphthalene	Ave	2.910	2.740		23.5	25.0	-5.8	20.0
1,2,3-Trichlorobenzene	Ave	1.188	1.040		21.9	25.0	-12.5	20.0
Dibromofluoromethane (Surr)	Ave	1.847	1.755		23.8	25.0	-5.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9737	0.9322		23.9	25.0	-4.3	20.0
Toluene-d8 (Surr)	Ave	2.276	2.230		24.5	25.0	-2.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7743	0.7860		25.4	25.0	1.5	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4236.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Sep-2023 21:36:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0113980-004
Operator ID: ZN Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:43:47 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:43:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	95305	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	201335	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.138	9.138	0.000	94	210453	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.383	4.383	0.000	94	167284	25.0	23.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.639	4.639	0.000	100	88847	25.0	23.9	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	448922	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.181	8.181	0.000	95	158251	25.0	25.4	
10 Dichlorodifluoromethane	85	1.170	1.170	0.000	99	166540	25.0	20.9	
12 Chloromethane	50	1.335	1.335	0.000	99	245819	25.0	21.1	
13 Vinyl chloride	62	1.420	1.420	0.000	98	209615	25.0	23.8	
144 Butadiene	54	1.433	1.433	0.000	90	218295	25.0	26.4	
14 Bromomethane	94	1.713	1.713	0.000	90	128117	25.0	24.3	
15 Chloroethane	64	1.780	1.780	0.000	98	93752	25.0	22.6	
16 Dichlorofluoromethane	67	1.993	1.993	0.000	97	270631	25.0	27.3	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	97	208445	25.0	25.8	
18 Ethyl ether	59	2.256	2.256	0.000	97	123220	25.0	23.2	
20 Acrolein	56	2.420	2.420	0.000	100	76947	125.0	116.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.457	2.457	0.000	66	157070	25.0	26.9	
22 1,1-Dichloroethene	96	2.463	2.463	0.000	94	134131	25.0	26.6	
23 Acetone	43	2.567	2.567	0.000	99	295949	125.0	124.3	
25 Iodomethane	142	2.609	2.609	0.000	99	308869	25.0	24.6	
26 Carbon disulfide	76	2.646	2.646	0.000	100	456139	25.0	26.7	
28 3-Chloro-1-propene	41	2.798	2.798	0.000	89	233459	25.0	24.3	
27 Methyl acetate	43	2.847	2.847	0.000	100	295388	50.0	53.4	
30 Methylene Chloride	84	2.932	2.932	0.000	98	154728	25.0	24.4	
31 2-Methyl-2-propanol	59	3.091	3.091	0.000	99	220948	250.0	278.4	
32 Methyl tert-butyl ether	73	3.127	3.127	0.000	98	380574	25.0	24.1	
34 trans-1,2-Dichloroethene	96	3.140	3.140	0.000	94	141836	25.0	24.5	
33 Acrylonitrile	53	3.182	3.182	0.000	98	746582	250.0	271.3	
35 Hexane	57	3.316	3.316	0.000	94	210206	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.511	3.511	0.000	97	271335	25.0	24.0	
37 Vinyl acetate	43	3.560	3.560	0.000	97	675553	50.0	55.4	
44 2,2-Dichloropropane	77	3.963	3.963	0.000	92	141067	25.0	23.0	
45 cis-1,2-Dichloroethene	96	3.993	3.993	0.000	85	154289	25.0	24.0	
43 2-Butanone (MEK)	43	4.017	4.017	0.000	98	432650	125.0	137.1	
48 Chlorobromomethane	128	4.188	4.188	0.000	97	93911	25.0	23.6	
49 Tetrahydrofuran	42	4.206	4.206	0.000	90	113293	50.0	53.6	
50 Chloroform	83	4.255	4.255	0.000	95	257726	25.0	22.8	
51 1,1,1-Trichloroethane	97	4.353	4.353	0.000	98	207256	25.0	25.4	
52 Cyclohexane	56	4.365	4.365	0.000	97	246893	25.0	26.0	
55 Carbon tetrachloride	117	4.469	4.469	0.000	98	192357	25.0	27.1	
54 1,1-Dichloropropene	75	4.481	4.481	0.000	94	178206	25.0	24.8	
57 Benzene	78	4.652	4.652	0.000	96	486838	25.0	24.8	
53 Isobutyl alcohol	43	4.652	4.652	0.000	92	207356	625.0	760.5	
58 1,2-Dichloroethane	62	4.700	4.700	0.000	97	220515	25.0	23.4	
59 n-Heptane	43	4.798	4.798	0.000	97	208117	25.0	28.4	
62 Trichloroethene	95	5.145	5.145	0.000	96	144480	25.0	24.6	
64 Methylcyclohexane	83	5.249	5.249	0.000	97	203677	25.0	25.3	
65 1,2-Dichloropropane	63	5.340	5.340	0.000	94	143613	25.0	25.5	
66 1,4-Dioxane	88	5.450	5.450	0.000	37	26669	500.0	575.6	
67 Dibromomethane	93	5.450	5.450	0.000	95	106216	25.0	24.2	
68 Dichlorobromomethane	83	5.566	5.566	0.000	98	190276	25.0	25.7	
69 2-Chloroethyl vinyl ether	63	5.785	5.785	0.000	92	98238	25.0	29.6	
72 cis-1,3-Dichloropropene	75	5.895	5.895	0.000	93	203397	25.0	26.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.000	98	869098	125.0	141.8	
74 Toluene	92	6.127	6.127	0.000	98	288746	25.0	25.1	
77 trans-1,3-Dichloropropene	75	6.340	6.340	0.000	96	180552	25.0	27.4	
75 Ethyl methacrylate	69	6.365	6.365	0.000	94	148645	25.0	31.1	
79 1,1,2-Trichloroethane	83	6.487	6.487	0.000	93	105906	25.0	26.2	
81 Tetrachloroethene	166	6.547	6.547	0.000	97	146542	25.0	24.7	
82 1,3-Dichloropropane	76	6.615	6.615	0.000	94	188486	25.0	26.8	
80 2-Hexanone	43	6.651	6.651	0.000	98	558164	125.0	151.2	
83 Chlorodibromomethane	129	6.797	6.797	0.000	90	164852	25.0	28.2	
84 Ethylene Dibromide	107	6.889	6.889	0.000	98	145995	25.0	26.6	
87 Chlorobenzene	112	7.249	7.249	0.000	97	338972	25.0	25.0	
88 Ethylbenzene	91	7.316	7.316	0.000	99	530083	25.0	26.0	
89 1,1,1,2-Tetrachloroethane	131	7.322	7.322	0.000	97	136489	25.0	25.7	
90 m-Xylene & p-Xylene	106	7.407	7.407	0.000	99	208748	25.0	25.6	
91 o-Xylene	106	7.736	7.736	0.000	97	215647	25.0	24.8	
92 Styrene	104	7.755	7.755	0.000	95	340571	25.0	26.1	
95 Bromoform	173	7.950	7.950	0.000	96	113739	25.0	30.8	
94 Isopropylbenzene	105	8.023	8.023	0.000	96	536481	25.0	24.6	
101 Bromobenzene	156	8.309	8.309	0.000	90	165042	25.0	25.5	
97 1,1,2,2-Tetrachloroethane	83	8.334	8.334	0.000	95	186820	25.0	26.6	
99 N-Propylbenzene	91	8.364	8.364	0.000	99	639326	25.0	25.7	
100 1,2,3-Trichloropropane	110	8.364	8.364	0.000	88	48225	25.0	26.9	
98 trans-1,4-Dichloro-2-butene	53	8.370	8.370	0.000	83	36931	25.0	21.1	
103 2-Chlorotoluene	126	8.456	8.456	0.000	97	142399	25.0	24.9	
102 1,3,5-Trimethylbenzene	105	8.504	8.504	0.000	94	458367	25.0	25.3	
105 4-Chlorotoluene	126	8.547	8.547	0.000	96	142278	25.0	26.2	
106 tert-Butylbenzene	134	8.773	8.773	0.000	94	93302	25.0	24.9	
107 1,2,4-Trimethylbenzene	105	8.821	8.821	0.000	97	473547	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.956	8.956	0.000	95	599478	25.0	25.0	
110 4-Isopropyltoluene	119	9.071	9.071	0.000	97	519800	25.0	24.5	
111 1,3-Dichlorobenzene	146	9.084	9.084	0.000	99	288119	25.0	25.3	
113 1,4-Dichlorobenzene	146	9.157	9.157	0.000	98	291837	25.0	25.0	
115 n-Butylbenzene	91	9.419	9.419	0.000	99	461464	25.0	24.8	
116 1,2-Dichlorobenzene	146	9.480	9.480	0.000	99	288802	25.0	24.2	
117 1,2-Dibromo-3-Chloropropane	75	10.157	10.157	0.000	87	33062	25.0	26.5	
119 1,2,4-Trichlorobenzene	180	10.821	10.821	0.000	94	223480	25.0	22.5	
120 Hexachlorobutadiene	225	10.925	10.925	0.000	97	105012	25.0	24.0	
121 Naphthalene	128	11.034	11.034	0.000	97	576714	25.0	23.5	
122 1,2,3-Trichlorobenzene	180	11.230	11.230	0.000	96	218801	25.0	21.9	

QC Flag Legend

Processing Flags

Reagents:

GAS CORP mix_00587	Amount Added: 12.50	Units: uL	
8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added: 1.00	Units: uL	Run Reagent

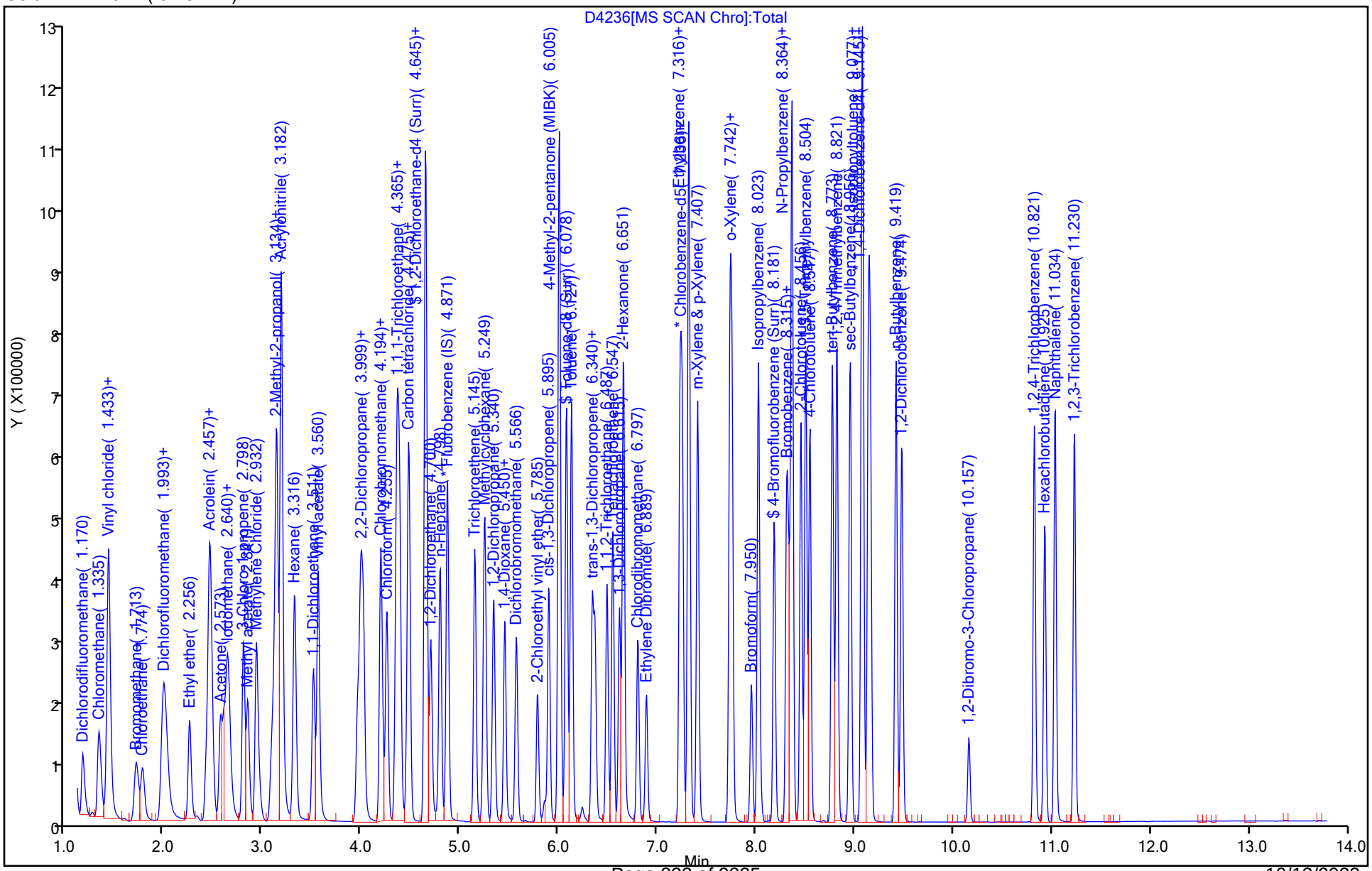
Report Date: 27-Sep-2023 07:43:47 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4236.d

Injection Date:	26-Sep-2023 21:36:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685139/4 Calibration Date: 09/27/2023 09:43

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D4255.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.090	1.815	0.1000	21.7	25.0	-13.1	50.0
Chloromethane	Ave	3.056	2.814	0.1000	23.0	25.0	-7.9	20.0
Vinyl chloride	Ave	2.315	2.373	0.1000	25.6	25.0	2.5	20.0
Butadiene	Ave	2.170	2.320		26.7	25.0	6.9	20.0
Bromomethane	Ave	1.386	1.364	0.1000	24.6	25.0	-1.6	50.0
Chloroethane	Ave	1.087	1.061	0.1000	24.4	25.0	-2.4	50.0
Dichlorofluoromethane	Ave	2.601	3.083		29.6	25.0	18.5	20.0
Trichlorofluoromethane	Ave	2.121	2.370	0.1000	27.9	25.0	11.8	20.0
Ethyl ether	Ave	1.391	1.433		25.7	25.0	3.0	20.0
Acrolein	Ave	0.1737	0.1758		127	125	1.2	50.0
1,1-Dichloroethene	Ave	1.321	1.493	0.1000	28.2	25.0	13.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.532	1.697	0.1000	27.7	25.0	10.8	20.0
Acetone	Ave	0.6245	0.7164	0.1000	143	125	14.7	50.0
Iodomethane	Ave	3.300	3.405		25.8	25.0	3.2	20.0
Carbon disulfide	Ave	4.485	5.170	0.1000	28.8	25.0	15.3	20.0
Allyl chloride	Ave	2.524	2.747		27.2	25.0	8.8	20.0
Methyl acetate	Ave	1.451	1.586	0.1000	54.7	50.0	9.3	50.0
Methylene Chloride	Lin1		1.743	0.1000	26.2	25.0	4.8	20.0
2-Methyl-2-propanol	Ave	0.2082	0.2247		270	250	7.9	50.0
Methyl tert-butyl ether	Ave	4.143	4.172	0.1000	25.2	25.0	0.7	20.0
trans-1,2-Dichloroethene	Ave	1.520	1.604	0.1000	26.4	25.0	5.5	20.0
Acrylonitrile	Ave	0.7220	0.7904		274	250	9.5	20.0
Hexane	Ave	2.004	2.469		30.8	25.0	23.2*	20.0
1,1-Dichloroethane	Ave	2.964	3.130	0.2000	26.4	25.0	5.6	20.0
Vinyl acetate	Ave	3.198	3.875		60.6	50.0	21.2*	20.0
2,2-Dichloropropane	Ave	1.606	1.771		27.6	25.0	10.3	20.0
cis-1,2-Dichloroethene	Ave	1.687	1.764	0.1000	26.1	25.0	4.5	20.0
2-Butanone (MEK)	Ave	0.8276	0.9418	0.1000	142	125	13.8	20.0
Chlorobromomethane	Ave	1.042	1.046		25.1	25.0	0.4	20.0
Tetrahydrofuran	Ave	0.5543	0.5903		53.2	50.0	6.5	20.0
Chloroform	Ave	2.960	2.921	0.2000	24.7	25.0	-1.3	20.0
1,1,1-Trichloroethane	Ave	2.145	2.342	0.1000	27.3	25.0	9.2	20.0
Cyclohexane	Ave	2.488	2.821	0.1000	28.3	25.0	13.4	20.0
Carbon tetrachloride	Ave	1.863	2.146	0.1000	28.8	25.0	15.2	20.0
1,1-Dichloropropene	Ave	1.888	1.995		26.4	25.0	5.6	20.0
Benzene	Ave	5.158	5.418	0.5000	26.3	25.0	5.0	20.0
Isobutyl alcohol	Ave	0.0715	0.0887		775	625	24.1	50.0
1,2-Dichloroethane	Ave	2.476	2.385	0.1000	24.1	25.0	-3.7	20.0
n-Heptane	Ave	1.924	2.441		31.7	25.0	26.9*	20.0
Trichloroethene	Ave	1.543	1.587	0.2000	25.7	25.0	2.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685139/4 | Calibration Date: 09/27/2023 09:43

Instrument ID: HP5975D | Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) | Calib End Date: 09/07/2023 18:19

Lab File ID: D4255.d | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.108	2.302	0.1000	27.3	25.0	9.2	20.0
1,2-Dichloropropane	Ave	1.478	1.596	0.1000	27.0	25.0	8.0	20.0
1,4-Dioxane	Ave	0.0058	0.0061		532	500	6.4	50.0
Dibromomethane	Ave	1.149	1.160	0.1000	25.2	25.0	0.9	20.0
Bromodichloromethane	Ave	1.940	2.112	0.2000	27.2	25.0	8.9	20.0
2-Chloroethyl vinyl ether	Ave	0.8694	1.033		29.7	25.0	18.9	20.0
cis-1,3-Dichloropropene	Ave	2.022	2.295	0.2000	28.4	25.0	13.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7611	0.8578	0.1000	141	125	12.7	20.0
Toluene	Ave	1.426	1.512	0.4000	26.5	25.0	6.0	20.0
trans-1,3-Dichloropropene	Ave	0.8186	0.9768	0.1000	29.8	25.0	19.3	20.0
Ethyl methacrylate	Ave	0.5940	0.7537		31.7	25.0	26.9*	20.0
1,1,2-Trichloroethane	Ave	0.5019	0.5437	0.1000	27.1	25.0	8.3	20.0
Tetrachloroethene	Ave	0.7369	0.7682	0.2000	26.1	25.0	4.2	20.0
1,3-Dichloropropane	Ave	0.8748	0.9620		27.5	25.0	10.0	20.0
2-Hexanone	Ave	0.4583	0.5474	0.1000	149	125	19.5	20.0
Dibromochloromethane	Ave	0.7247	0.8595	0.1000	29.6	25.0	18.6	20.0
1,2-Dibromoethane	Ave	0.6823	0.7500		27.5	25.0	9.9	20.0
Chlorobenzene	Ave	1.684	1.780	0.5000	26.4	25.0	5.7	20.0
Ethylbenzene	Ave	2.527	2.833	0.1000	28.0	25.0	12.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6591	0.7338		27.8	25.0	11.3	20.0
m,p-Xylene	Ave	1.012	1.110	0.1000	27.4	25.0	9.7	20.0
o-Xylene	Ave	1.079	1.131	0.3000	26.2	25.0	4.8	20.0
Styrene	Ave	1.622	1.763	0.3000	27.2	25.0	8.7	20.0
Bromoform	Ave	0.4587	0.5853	0.1000	31.9	25.0	27.6	50.0
Isopropylbenzene	Ave	2.590	2.791	0.1000	26.9	25.0	7.7	20.0
Bromobenzene	Ave	0.7680	0.8359		27.2	25.0	8.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8349	0.9207	0.3000	27.6	25.0	10.3	20.0
1,2,3-Trichloropropane	Ave	0.2133	0.2349		27.5	25.0	10.1	20.0
N-Propylbenzene	Ave	2.953	3.335		28.2	25.0	12.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2077	0.2377		28.6	25.0	14.4	50.0
2-Chlorotoluene	Ave	0.6786	0.7249		26.7	25.0	6.8	20.0
1,3,5-Trimethylbenzene	Ave	2.153	2.326		27.0	25.0	8.0	20.0
4-Chlorotoluene	Ave	0.6449	0.7317		28.4	25.0	13.5	20.0
tert-Butylbenzene	Ave	0.4452	0.4739		26.6	25.0	6.4	20.0
1,2,4-Trimethylbenzene	Ave	2.258	2.410		26.7	25.0	6.8	20.0
sec-Butylbenzene	Ave	2.846	3.099		27.2	25.0	8.9	20.0
4-Isopropyltoluene	Ave	2.519	2.709		26.9	25.0	7.5	20.0
1,3-Dichlorobenzene	Ave	1.355	1.474	0.6000	27.2	25.0	8.8	20.0
1,4-Dichlorobenzene	Ave	1.387	1.470	0.5000	26.5	25.0	6.0	20.0
n-Butylbenzene	Ave	2.210	2.416		27.3	25.0	9.3	20.0
1,2-Dichlorobenzene	Ave	1.415	1.486	0.4000	26.2	25.0	5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685139/4 Calibration Date: 09/27/2023 09:43

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D4255.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1483	0.1616	0.0500	27.2	25.0	8.9	50.0
1,2,4-Trichlorobenzene	Ave	1.180	1.141	0.2000	24.2	25.0	-3.3	20.0
Hexachlorobutadiene	Ave	0.5202	0.5393		25.9	25.0	3.7	20.0
Naphthalene	Ave	2.910	2.830		24.3	25.0	-2.8	20.0
1,2,3-Trichlorobenzene	Ave	1.188	1.114		23.4	25.0	-6.2	20.0
Dibromofluoromethane (Surr)	Ave	1.847	1.756		23.8	25.0	-4.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9737	0.9469		24.3	25.0	-2.7	20.0
Toluene-d8 (Surr)	Ave	2.276	2.199		24.1	25.0	-3.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7743	0.7646		24.7	25.0	-1.3	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4255.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Sep-2023 09:43:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0113984-004
Operator ID: ZN Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 10:52:43 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 10:07:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	88309	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	184493	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.139	9.139	0.000	94	187414	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.383	4.383	0.000	94	155105	25.0	23.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.639	4.639	0.000	99	83624	25.0	24.3	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	405671	25.0	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.181	8.181	0.000	94	141060	25.0	24.7	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	160316	25.0	21.7	
12 Chloromethane	50	1.341	1.341	0.000	99	248520	25.0	23.0	
13 Vinyl chloride	62	1.427	1.427	0.000	98	209525	25.0	25.6	
144 Butadiene	54	1.439	1.439	0.000	90	204852	25.0	26.7	
14 Bromomethane	94	1.713	1.713	0.000	91	120469	25.0	24.6	
15 Chloroethane	64	1.780	1.780	0.000	98	93682	25.0	24.4	
16 Dichlorofluoromethane	67	1.994	1.994	0.000	97	272250	25.0	29.6	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	98	209292	25.0	27.9	
18 Ethyl ether	59	2.256	2.256	0.000	97	126515	25.0	25.7	
20 Acrolein	56	2.420	2.420	0.000	100	77620	125.0	126.5	
22 1,1-Dichloroethene	96	2.457	2.457	0.000	94	131850	25.0	28.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.463	2.463	0.000	93	149841	25.0	27.7	
23 Acetone	43	2.567	2.567	0.000	99	316329	125.0	143.4	
25 Iodomethane	142	2.609	2.609	0.000	99	300719	25.0	25.8	
26 Carbon disulfide	76	2.646	2.646	0.000	100	456580	25.0	28.8	
28 3-Chloro-1-propene	41	2.798	2.798	0.000	89	242617	25.0	27.2	
27 Methyl acetate	43	2.847	2.847	0.000	100	280133	50.0	54.7	
30 Methylene Chloride	84	2.932	2.932	0.000	98	153936	25.0	26.2	
31 2-Methyl-2-propanol	59	3.091	3.091	0.000	99	198465	250.0	269.8	
32 Methyl tert-butyl ether	73	3.128	3.128	0.000	99	368383	25.0	25.2	
34 trans-1,2-Dichloroethene	96	3.140	3.140	0.000	94	141623	25.0	26.4	
33 Acrylonitrile	53	3.182	3.182	0.000	98	697953	250.0	273.7	
35 Hexane	57	3.323	3.323	0.000	95	218007	25.0	30.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.512	3.512	0.000	97	276394	25.0	26.4	
37 Vinyl acetate	43	3.560	3.560	0.000	97	684334	50.0	60.6	
44 2,2-Dichloropropane	77	3.963	3.963	0.000	92	156395	25.0	27.6	
45 cis-1,2-Dichloroethene	96	3.993	3.993	0.000	85	155796	25.0	26.1	
43 2-Butanone (MEK)	43	4.018	4.018	0.000	98	415847	125.0	142.2	
48 Chlorobromomethane	128	4.188	4.188	0.000	97	92398	25.0	25.1	
49 Tetrahydrofuran	42	4.207	4.207	0.000	90	104262	50.0	53.2	
50 Chloroform	83	4.255	4.255	0.000	96	257991	25.0	24.7	
51 1,1,1-Trichloroethane	97	4.353	4.353	0.000	98	206791	25.0	27.3	
52 Cyclohexane	56	4.365	4.365	0.000	96	249106	25.0	28.3	
55 Carbon tetrachloride	117	4.469	4.469	0.000	97	189498	25.0	28.8	
54 1,1-Dichloropropene	75	4.481	4.481	0.000	93	176136	25.0	26.4	
57 Benzene	78	4.652	4.652	0.000	97	478485	25.0	26.3	
53 Isobutyl alcohol	43	4.652	4.652	0.000	93	195895	625.0	775.3	
58 1,2-Dichloroethane	62	4.700	4.700	0.000	97	210607	25.0	24.1	
59 n-Heptane	43	4.798	4.798	0.000	97	215549	25.0	31.7	
62 Trichloroethene	95	5.145	5.145	0.000	96	140104	25.0	25.7	
64 Methylcyclohexane	83	5.249	5.249	0.000	98	203290	25.0	27.3	
65 1,2-Dichloropropane	63	5.340	5.340	0.000	95	140976	25.0	27.0	
66 1,4-Dioxane	88	5.450	5.450	0.000	37	22580	500.0	531.8	
67 Dibromomethane	93	5.450	5.450	0.000	96	102435	25.0	25.2	
68 Dichlorobromomethane	83	5.566	5.566	0.000	97	186518	25.0	27.2	
69 2-Chloroethyl vinyl ether	63	5.786	5.786	0.000	92	91254	25.0	29.7	
72 cis-1,3-Dichloropropene	75	5.895	5.895	0.000	93	202670	25.0	28.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.000	98	791318	125.0	140.9	
74 Toluene	92	6.127	6.127	0.000	98	278919	25.0	26.5	
77 trans-1,3-Dichloropropene	75	6.340	6.340	0.000	96	180215	25.0	29.8	
75 Ethyl methacrylate	69	6.365	6.365	0.000	94	139045	25.0	31.7	
79 1,1,2-Trichloroethane	83	6.487	6.487	0.000	93	100308	25.0	27.1	
81 Tetrachloroethene	166	6.548	6.548	0.000	96	141728	25.0	26.1	
82 1,3-Dichloropropane	76	6.615	6.615	0.000	94	177479	25.0	27.5	
80 2-Hexanone	43	6.657	6.657	0.000	98	504964	125.0	149.3	
83 Chlorodibromomethane	129	6.798	6.798	0.000	90	158572	25.0	29.6	
84 Ethylene Dibromide	107	6.889	6.889	0.000	98	138375	25.0	27.5	
87 Chlorobenzene	112	7.249	7.249	0.000	98	328438	25.0	26.4	
88 Ethylbenzene	91	7.316	7.316	0.000	99	522648	25.0	28.0	
89 1,1,1,2-Tetrachloroethane	131	7.322	7.322	0.000	97	135377	25.0	27.8	
90 m-Xylene & p-Xylene	106	7.407	7.407	0.000	99	204800	25.0	27.4	
91 o-Xylene	106	7.736	7.736	0.000	97	208627	25.0	26.2	
92 Styrene	104	7.755	7.755	0.000	95	325227	25.0	27.2	
95 Bromoform	173	7.950	7.950	0.000	96	107992	25.0	31.9	
94 Isopropylbenzene	105	8.023	8.023	0.000	96	523071	25.0	26.9	
101 Bromobenzene	156	8.309	8.309	0.000	90	156651	25.0	27.2	
97 1,1,2,2-Tetrachloroethane	83	8.334	8.334	0.000	96	172545	25.0	27.6	
99 N-Propylbenzene	91	8.364	8.364	0.000	99	624939	25.0	28.2	
100 1,2,3-Trichloropropane	110	8.364	8.364	0.000	86	44032	25.0	27.5	
98 trans-1,4-Dichloro-2-butene	53	8.370	8.370	0.000	83	44541	25.0	28.6	
103 2-Chlorotoluene	126	8.456	8.456	0.000	97	135864	25.0	26.7	
102 1,3,5-Trimethylbenzene	105	8.505	8.505	0.000	94	435895	25.0	27.0	
105 4-Chlorotoluene	126	8.547	8.547	0.000	96	137125	25.0	28.4	
106 tert-Butylbenzene	134	8.773	8.773	0.000	94	88807	25.0	26.6	
107 1,2,4-Trimethylbenzene	105	8.822	8.822	0.000	96	451743	25.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.956	8.956	0.000	95	580823	25.0	27.2	
110 4-Isopropyltoluene	119	9.071	9.071	0.000	97	507767	25.0	26.9	
111 1,3-Dichlorobenzene	146	9.084	9.084	0.000	99	276274	25.0	27.2	
113 1,4-Dichlorobenzene	146	9.157	9.157	0.000	95	275519	25.0	26.5	
115 n-Butylbenzene	91	9.419	9.419	0.000	99	452827	25.0	27.3	
116 1,2-Dichlorobenzene	146	9.480	9.480	0.000	99	278518	25.0	26.2	
117 1,2-Dibromo-3-Chloropropane	75	10.157	10.157	0.000	87	30279	25.0	27.2	
119 1,2,4-Trichlorobenzene	180	10.821	10.821	0.000	95	213844	25.0	24.2	
120 Hexachlorobutadiene	225	10.931	10.931	0.000	98	101081	25.0	25.9	
121 Naphthalene	128	11.035	11.035	0.000	97	530291	25.0	24.3	
122 1,2,3-Trichlorobenzene	180	11.230	11.230	0.000	96	208768	25.0	23.4	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
GAS CORP mix_00587	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added: 1.00	Units: uL	Run Reagent

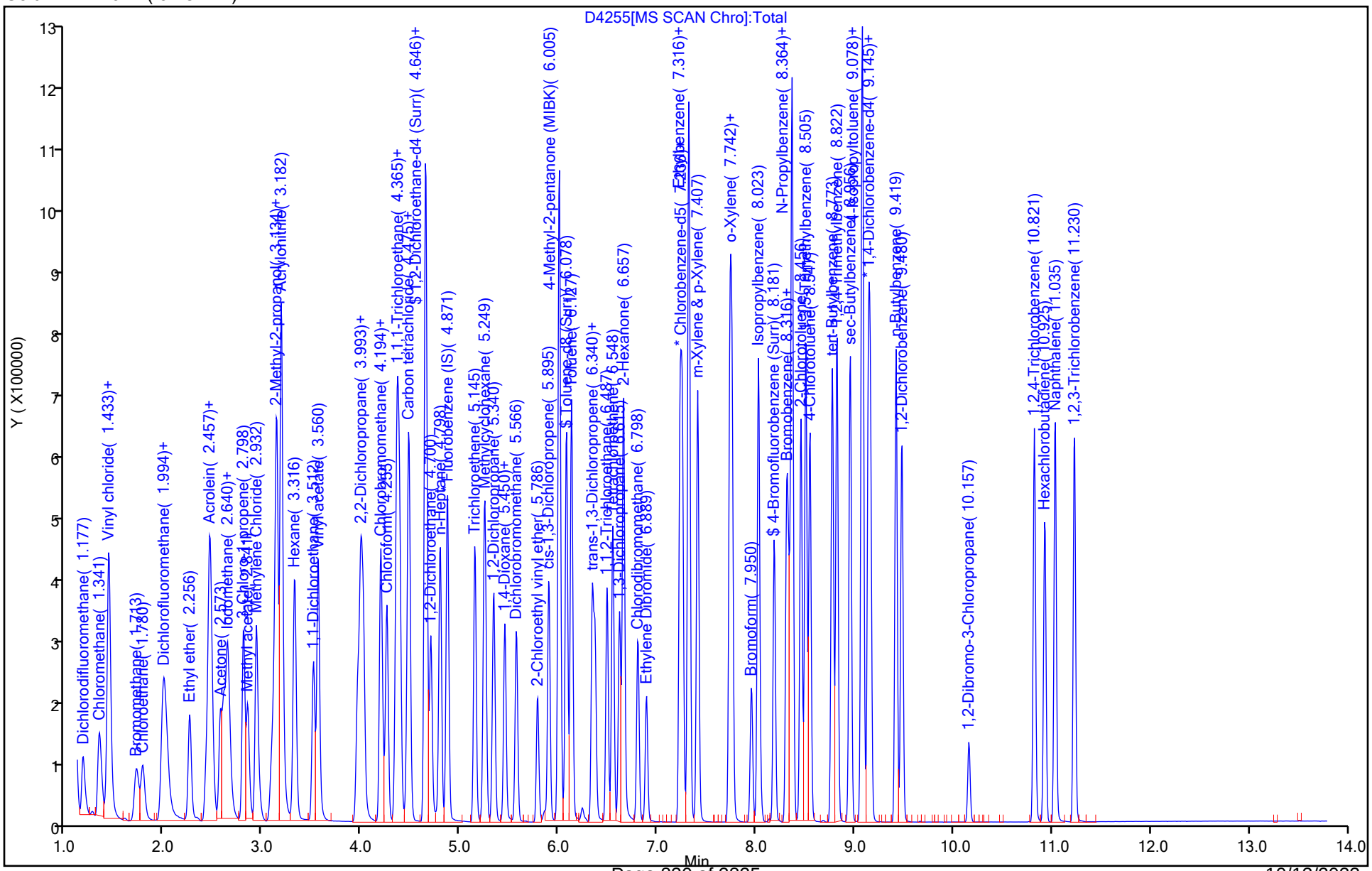
Report Date: 27-Sep-2023 10:52:44 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4255.d

Injection Date:	27-Sep-2023 09:43:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685822/4 Calibration Date: 10/02/2023 16:03

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D4454.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.090	2.316	0.1000	27.7	25.0	10.8	50.0
Chloromethane	Ave	3.056	3.153	0.1000	25.8	25.0	3.2	20.0
Vinyl chloride	Ave	2.315	2.527	0.1000	27.3	25.0	9.1	20.0
Butadiene	Ave	2.170	2.470		28.5	25.0	13.8	20.0
Bromomethane	Ave	1.386	1.316	0.1000	23.7	25.0	-5.0	50.0
Chloroethane	Ave	1.087	1.090	0.1000	25.1	25.0	0.2	50.0
Dichlorofluoromethane	Ave	2.601	3.119		30.0	25.0	19.9	20.0
Trichlorofluoromethane	Ave	2.121	2.447	0.1000	28.9	25.0	15.4	20.0
Ethyl ether	Ave	1.391	1.439		25.9	25.0	3.5	20.0
Acrolein	Ave	0.1737	0.1662		120	125	-4.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.532	1.726	0.1000	28.2	25.0	12.7	20.0
1,1-Dichloroethene	Ave	1.321	1.538	0.1000	29.1	25.0	16.4	20.0
Acetone	Ave	0.6245	0.7191	0.1000	144	125	15.1	50.0
Iodomethane	Ave	3.300	3.390		25.7	25.0	2.7	20.0
Carbon disulfide	Ave	4.485	5.364	0.1000	29.9	25.0	19.6	20.0
Allyl chloride	Ave	2.524	2.804		27.8	25.0	11.1	20.0
Methyl acetate	Ave	1.451	1.683	0.1000	58.0	50.0	16.0	50.0
Methylene Chloride	Lin1		1.699	0.1000	25.5	25.0	2.1	20.0
2-Methyl-2-propanol	Ave	0.2082	0.2393		287	250	14.9	50.0
Methyl tert-butyl ether	Ave	4.143	4.078	0.1000	24.6	25.0	-1.6	20.0
trans-1,2-Dichloroethene	Ave	1.520	1.597	0.1000	26.3	25.0	5.0	20.0
Acrylonitrile	Ave	0.7220	0.8322		288	250	15.3	20.0
Hexane	Ave	2.004	2.585		32.2	25.0	29.0*	20.0
1,1-Dichloroethane	Ave	2.964	3.132	0.2000	26.4	25.0	5.6	20.0
Vinyl acetate	Ave	3.198	4.105		64.2	50.0	28.4*	20.0
2,2-Dichloropropane	Ave	1.606	1.722		26.8	25.0	7.2	20.0
cis-1,2-Dichloroethene	Ave	1.687	1.733	0.1000	25.7	25.0	2.7	20.0
2-Butanone (MEK)	Ave	0.8276	1.003	0.1000	152	125	21.2*	20.0
Chlorobromomethane	Ave	1.042	1.017		24.4	25.0	-2.4	20.0
Tetrahydrofuran	Ave	0.5543	0.6524		58.8	50.0	17.7	20.0
Chloroform	Ave	2.960	2.868	0.2000	24.2	25.0	-3.1	20.0
1,1,1-Trichloroethane	Ave	2.145	2.386	0.1000	27.8	25.0	11.2	20.0
Cyclohexane	Ave	2.488	2.966	0.1000	29.8	25.0	19.2	20.0
Carbon tetrachloride	Ave	1.863	2.149	0.1000	28.8	25.0	15.3	20.0
1,1-Dichloropropene	Ave	1.888	2.009		26.6	25.0	6.4	20.0
Benzene	Ave	5.158	5.438	0.5000	26.4	25.0	5.4	20.0
Isobutyl alcohol	Ave	0.0715	0.0982		858	625	37.3	50.0
1,2-Dichloroethane	Ave	2.476	2.330	0.1000	23.5	25.0	-5.9	20.0
n-Heptane	Ave	1.924	2.441		31.7	25.0	26.9*	20.0
Trichloroethene	Ave	1.543	1.576	0.2000	25.5	25.0	2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685822/4 Calibration Date: 10/02/2023 16:03

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D4454.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.108	2.334	0.1000	27.7	25.0	10.7	20.0
1,2-Dichloropropane	Ave	1.478	1.618	0.1000	27.4	25.0	9.5	20.0
1,4-Dioxane	Ave	0.0058	0.0074		640	500	27.9	50.0
Dibromomethane	Ave	1.149	1.134	0.1000	24.7	25.0	-1.3	20.0
Bromodichloromethane	Ave	1.940	2.102	0.2000	27.1	25.0	8.4	20.0
2-Chloroethyl vinyl ether	Ave	0.8694	1.106		31.8	25.0	27.2*	20.0
cis-1,3-Dichloropropene	Ave	2.022	2.295	0.2000	28.4	25.0	13.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7611	0.9378	0.1000	154	125	23.2*	20.0
Toluene	Ave	1.426	1.493	0.4000	26.2	25.0	4.7	20.0
trans-1,3-Dichloropropene	Ave	0.8186	0.9830	0.1000	30.0	25.0	20.1*	20.0
Ethyl methacrylate	Ave	0.5940	0.7874		33.1	25.0	32.6*	20.0
1,1,2-Trichloroethane	Ave	0.5019	0.5442	0.1000	27.1	25.0	8.4	20.0
Tetrachloroethene	Ave	0.7369	0.7655	0.2000	26.0	25.0	3.9	20.0
1,3-Dichloropropane	Ave	0.8748	0.9713		27.8	25.0	11.0	20.0
2-Hexanone	Ave	0.4583	0.6294	0.1000	172	125	37.4*	20.0
Dibromochloromethane	Ave	0.7247	0.8531	0.1000	29.4	25.0	17.7	20.0
1,2-Dibromoethane	Ave	0.6823	0.7543		27.6	25.0	10.6	20.0
Chlorobenzene	Ave	1.684	1.745	0.5000	25.9	25.0	3.6	20.0
Ethylbenzene	Ave	2.527	2.800	0.1000	27.7	25.0	10.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6591	0.7124		27.0	25.0	8.1	20.0
m,p-Xylene	Ave	1.012	1.092	0.1000	27.0	25.0	7.9	20.0
o-Xylene	Ave	1.079	1.113	0.3000	25.8	25.0	3.2	20.0
Styrene	Ave	1.622	1.768	0.3000	27.2	25.0	9.0	20.0
Bromoform	Ave	0.4587	0.5987	0.1000	32.6	25.0	30.5	50.0
Isopropylbenzene	Ave	2.590	2.736	0.1000	26.4	25.0	5.6	20.0
Bromobenzene	Ave	0.7680	0.8116		26.4	25.0	5.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8349	0.9506	0.3000	28.5	25.0	13.9	20.0
N-Propylbenzene	Ave	2.953	3.306		28.0	25.0	12.0	20.0
1,2,3-Trichloropropane	Ave	0.2133	0.2367		27.7	25.0	11.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2077	0.2607		31.4	25.0	25.5	50.0
2-Chlorotoluene	Ave	0.6786	0.7054		26.0	25.0	4.0	20.0
1,3,5-Trimethylbenzene	Ave	2.153	2.277		26.4	25.0	5.7	20.0
4-Chlorotoluene	Ave	0.6449	0.7044		27.3	25.0	9.2	20.0
tert-Butylbenzene	Ave	0.4452	0.4670		26.2	25.0	4.9	20.0
1,2,4-Trimethylbenzene	Ave	2.258	2.340		25.9	25.0	3.7	20.0
sec-Butylbenzene	Ave	2.846	3.007		26.4	25.0	5.7	20.0
4-Isopropyltoluene	Ave	2.519	2.656		26.4	25.0	5.4	20.0
1,3-Dichlorobenzene	Ave	1.355	1.442	0.6000	26.6	25.0	6.4	20.0
1,4-Dichlorobenzene	Ave	1.387	1.448	0.5000	26.1	25.0	4.4	20.0
n-Butylbenzene	Ave	2.210	2.438		27.6	25.0	10.3	20.0
1,2-Dichlorobenzene	Ave	1.415	1.453	0.4000	25.7	25.0	2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685822/4 Calibration Date: 10/02/2023 16:03

Instrument ID: HP5975D Calib Start Date: 09/07/2023 15:45

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/07/2023 18:19

Lab File ID: D4454.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1483	0.1742	0.0500	29.4	25.0	17.5	50.0
1,2,4-Trichlorobenzene	Ave	1.180	1.132	0.2000	24.0	25.0	-4.1	20.0
Hexachlorobutadiene	Ave	0.5202	0.5395		25.9	25.0	3.7	20.0
Naphthalene	Ave	2.910	2.887		24.8	25.0	-0.8	20.0
1,2,3-Trichlorobenzene	Ave	1.188	1.100		23.1	25.0	-7.4	20.0
Dibromofluoromethane (Surr)	Ave	1.847	1.736		23.5	25.0	-6.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9737	0.9196		23.6	25.0	-5.6	20.0
Toluene-d8 (Surr)	Ave	2.276	2.152		23.6	25.0	-5.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7743	0.7719		24.9	25.0	-0.3	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4454.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Oct-2023 16:03:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0114077-004
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:25:15 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 16:24:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	99	89687	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	190944	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	94	196690	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.389	0.000	94	155696	25.0	23.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.645	4.645	0.000	98	82472	25.0	23.6	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	410887	25.0	23.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.187	8.187	0.000	95	147396	25.0	24.9	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	207745	25.0	27.7	
12 Chloromethane	50	1.341	1.341	0.000	99	282783	25.0	25.8	
13 Vinyl chloride	62	1.427	1.427	0.000	98	226636	25.0	27.3	
144 Butadiene	54	1.445	1.445	0.000	91	221537	25.0	28.5	
14 Bromomethane	94	1.719	1.719	0.000	91	118063	25.0	23.7	
15 Chloroethane	64	1.780	1.780	0.000	98	97725	25.0	25.1	
16 Dichlorofluoromethane	67	2.000	2.000	0.000	97	279771	25.0	30.0	
17 Trichlorofluoromethane	101	2.006	2.006	0.000	98	219508	25.0	28.9	
18 Ethyl ether	59	2.262	2.262	0.000	98	129093	25.0	25.9	
20 Acrolein	56	2.426	2.426	0.000	100	74522	125.0	119.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.469	2.469	0.000	66	154756	25.0	28.2	
22 1,1-Dichloroethene	96	2.469	2.469	0.000	94	137965	25.0	29.1	
23 Acetone	43	2.573	2.573	0.000	98	322460	125.0	143.9	
25 Iodomethane	142	2.621	2.621	0.000	99	304066	25.0	25.7	
26 Carbon disulfide	76	2.652	2.652	0.000	100	481038	25.0	29.9	
28 3-Chloro-1-propene	41	2.810	2.810	0.000	89	251481	25.0	27.8	
27 Methyl acetate	43	2.853	2.853	0.000	100	301842	50.0	58.0	
30 Methylene Chloride	84	2.938	2.938	0.000	97	152377	25.0	25.5	
31 2-Methyl-2-propanol	59	3.097	3.097	0.000	98	214588	250.0	287.3	
32 Methyl tert-butyl ether	73	3.134	3.134	0.000	99	365730	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.146	3.146	0.000	94	143187	25.0	26.3	
33 Acrylonitrile	53	3.188	3.188	0.000	98	746418	250.0	288.2	
35 Hexane	57	3.323	3.323	0.000	95	231820	25.0	32.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.518	3.518	0.000	97	280865	25.0	26.4	
37 Vinyl acetate	43	3.566	3.566	0.000	97	736328	50.0	64.2	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	93	154426	25.0	26.8	
45 cis-1,2-Dichloroethene	96	3.999	3.999	0.000	85	155385	25.0	25.7	
43 2-Butanone (MEK)	43	4.024	4.024	0.000	98	449830	125.0	151.5	
48 Chlorobromomethane	128	4.194	4.194	0.000	97	91173	25.0	24.4	
49 Tetrahydrofuran	42	4.213	4.213	0.000	91	117023	50.0	58.8	
50 Chloroform	83	4.261	4.261	0.000	96	257258	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.359	4.359	0.000	98	213969	25.0	27.8	
52 Cyclohexane	56	4.371	4.371	0.000	98	266045	25.0	29.8	
55 Carbon tetrachloride	117	4.475	4.475	0.000	98	192714	25.0	28.8	
54 1,1-Dichloropropene	75	4.487	4.487	0.000	95	180209	25.0	26.6	
57 Benzene	78	4.658	4.658	0.000	96	487708	25.0	26.4	
53 Isobutyl alcohol	43	4.658	4.658	0.000	64	220195	625.0	858.1	
58 1,2-Dichloroethane	62	4.706	4.706	0.000	97	208988	25.0	23.5	
59 n-Heptane	43	4.804	4.804	0.000	97	218901	25.0	31.7	
62 Trichloroethene	95	5.151	5.151	0.000	96	141382	25.0	25.5	
64 Methylcyclohexane	83	5.255	5.255	0.000	98	209306	25.0	27.7	
65 1,2-Dichloropropane	63	5.347	5.347	0.000	95	145092	25.0	27.4	
67 Dibromomethane	93	5.456	5.456	0.000	96	101724	25.0	24.7	
66 1,4-Dioxane	88	5.456	5.456	0.000	40	28110	500.0	639.7	
68 Dichlorobromomethane	83	5.572	5.572	0.000	98	188557	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	5.785	5.785	0.000	92	99203	25.0	31.8	
72 cis-1,3-Dichloropropene	75	5.901	5.901	0.000	92	205842	25.0	28.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.011	6.011	0.000	98	895348	125.0	154.0	
74 Toluene	92	6.133	6.133	0.000	97	285130	25.0	26.2	
77 trans-1,3-Dichloropropene	75	6.346	6.346	0.000	96	187696	25.0	30.0	
75 Ethyl methacrylate	69	6.371	6.371	0.000	95	150351	25.0	33.1	
79 1,1,2-Trichloroethane	83	6.493	6.493	0.000	93	103921	25.0	27.1	
81 Tetrachloroethene	166	6.554	6.554	0.000	96	146167	25.0	26.0	
82 1,3-Dichloropropane	76	6.621	6.621	0.000	94	185455	25.0	27.8	
80 2-Hexanone	43	6.657	6.657	0.000	99	600943	125.0	171.7	M
83 Chlorodibromomethane	129	6.804	6.804	0.000	90	162901	25.0	29.4	
84 Ethylene Dibromide	107	6.895	6.895	0.000	98	144022	25.0	27.6	
87 Chlorobenzene	112	7.255	7.255	0.000	96	333149	25.0	25.9	
88 Ethylbenzene	91	7.322	7.322	0.000	99	534619	25.0	27.7	
89 1,1,1,2-Tetrachloroethane	131	7.328	7.328	0.000	97	136029	25.0	27.0	
90 m-Xylene & p-Xylene	106	7.413	7.413	0.000	99	208531	25.0	27.0	
91 o-Xylene	106	7.742	7.742	0.000	97	212507	25.0	25.8	
92 Styrene	104	7.761	7.761	0.000	95	337506	25.0	27.2	
95 Bromoform	173	7.956	7.956	0.000	96	114314	25.0	32.6	
94 Isopropylbenzene	105	8.029	8.029	0.000	96	538200	25.0	26.4	
101 Bromobenzene	156	8.315	8.315	0.000	90	159638	25.0	26.4	
97 1,1,2,2-Tetrachloroethane	83	8.340	8.340	0.000	95	186966	25.0	28.5	
99 N-Propylbenzene	91	8.364	8.364	0.000	99	650353	25.0	28.0	
100 1,2,3-Trichloropropane	110	8.370	8.370	0.000	86	46563	25.0	27.7	
98 trans-1,4-Dichloro-2-butene	53	8.376	8.376	0.000	82	51280	25.0	31.4	
103 2-Chlorotoluene	126	8.462	8.462	0.000	97	138741	25.0	26.0	
102 1,3,5-Trimethylbenzene	105	8.511	8.511	0.000	94	447891	25.0	26.4	
105 4-Chlorotoluene	126	8.553	8.553	0.000	97	138551	25.0	27.3	
106 tert-Butylbenzene	134	8.779	8.779	0.000	94	91861	25.0	26.2	
107 1,2,4-Trimethylbenzene	105	8.828	8.828	0.000	97	460261	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.962	8.962	0.000	95	591517	25.0	26.4	
110 4-Isopropyltoluene	119	9.078	9.078	0.000	97	522420	25.0	26.4	
111 1,3-Dichlorobenzene	146	9.090	9.090	0.000	99	283642	25.0	26.6	
113 1,4-Dichlorobenzene	146	9.163	9.163	0.000	95	284792	25.0	26.1	
115 n-Butylbenzene	91	9.425	9.425	0.000	98	479586	25.0	27.6	
116 1,2-Dichlorobenzene	146	9.486	9.486	0.000	99	285736	25.0	25.7	
117 1,2-Dibromo-3-Chloropropane	75	10.163	10.163	0.000	88	34272	25.0	29.4	
119 1,2,4-Trichlorobenzene	180	10.827	10.827	0.000	95	222580	25.0	24.0	
120 Hexachlorobutadiene	225	10.931	10.931	0.000	98	106112	25.0	25.9	
121 Naphthalene	128	11.034	11.034	0.000	97	567837	25.0	24.8	
122 1,2,3-Trichlorobenzene	180	11.236	11.236	0.000	96	216320	25.0	23.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
GAS CORP mix_00588	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added: 1.00	Units: uL	Run Reagent

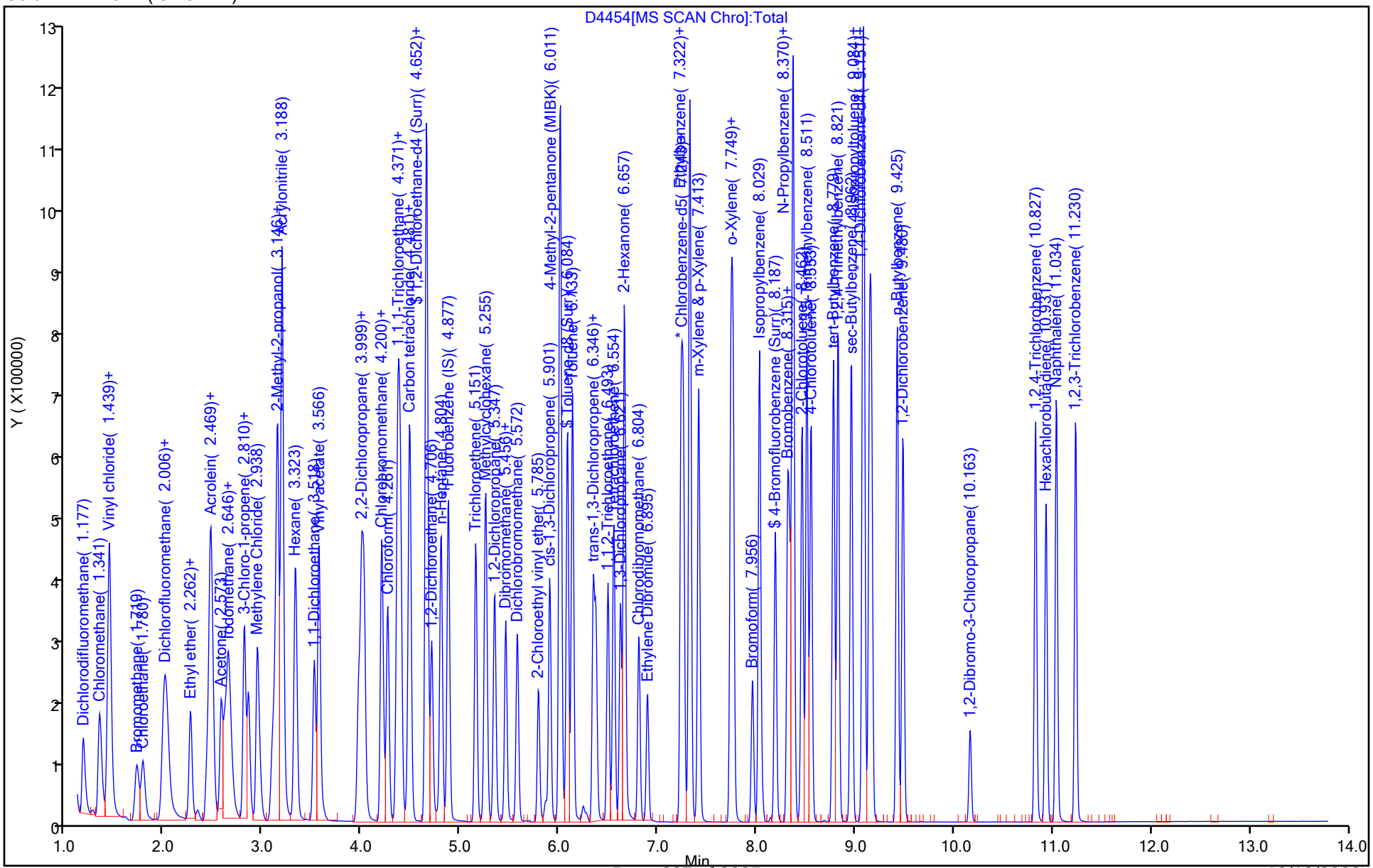
Report Date: 02-Oct-2023 18:25:16 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4454.d

Injection Date:	02-Oct-2023 16:03:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Manual Integration/User Assign Peak Report

Eurofins Buffalo

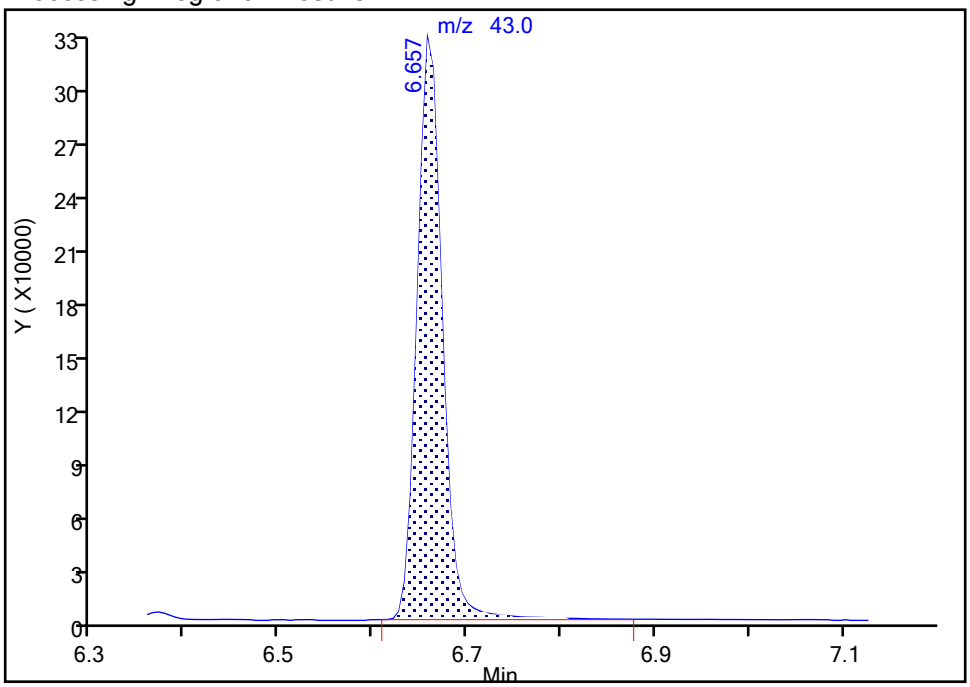
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4454.d
Injection Date: 02-Oct-2023 16:03:30 Instrument ID: HP5975D
Lims ID: CCVIS
Client ID:
Operator ID: AK ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

80 2-Hexanone, CAS: 591-78-6

Signal: 1

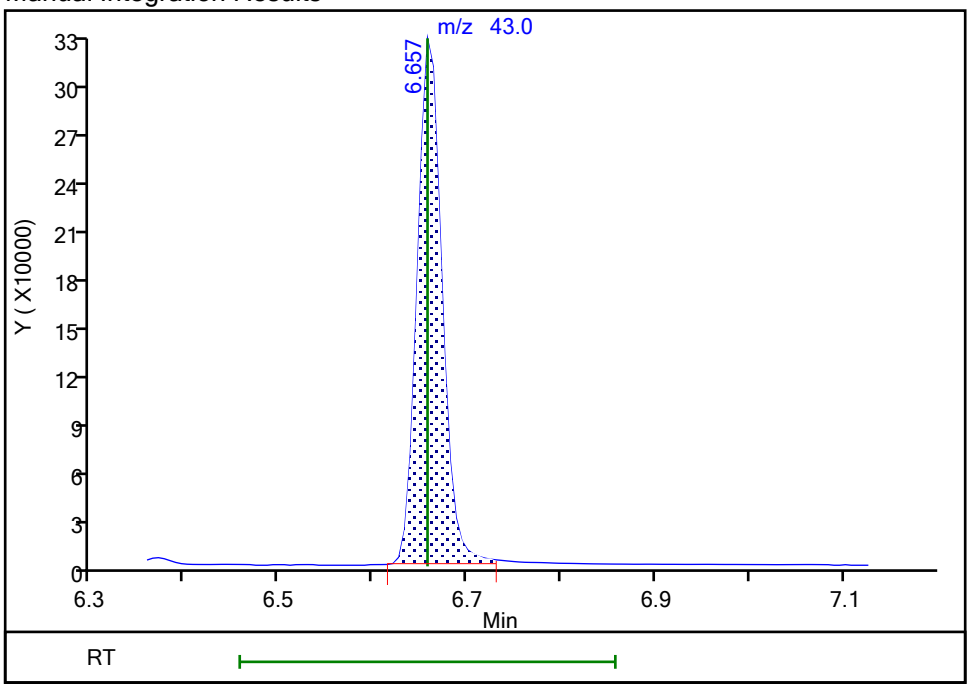
Processing Integration Results

RT: 6.66
Area: 609304
Amount: 174.0832
Amount Units: ug/L



Manual Integration Results

RT: 6.66
Area: 600943
Amount: 171.6944
Amount Units: ug/L



Reviewer: R3QB, 02-Oct-2023 18:25:13 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-684845/35 Calibration Date: 09/25/2023 23:31

Instrument ID: HP5977L Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/25/2023 17:49

Lab File ID: L0994.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.215	2.210	0.1000	24.9	25.0	-0.3	50.0
Chloromethane	Ave	2.508	2.363	0.1000	23.5	25.0	-5.8	30.0
Vinyl chloride	Ave	1.592	1.630	0.1000	25.6	25.0	2.4	30.0
Butadiene	Ave	1.606	1.299		20.2	25.0	-19.1	30.0
Bromomethane	Lin1		0.7809	0.1000	22.9	25.0	-8.2	50.0
Chloroethane	Ave	0.9376	0.8972	0.1000	23.9	25.0	-4.3	50.0
Dichlorofluoromethane	Ave	2.173	2.134		24.6	25.0	-1.8	30.0
Trichlorofluoromethane	Lin1		1.835	0.1000	22.5	25.0	-10.1	30.0
Ethyl ether	Ave	1.501	1.456		24.2	25.0	-3.0	30.0
Acrolein	Ave	0.1677	0.1536		114	125	-8.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.427	1.377	0.1000	24.1	25.0	-3.5	30.0
1,1-Dichloroethene	Ave	1.409	1.341	0.1000	23.8	25.0	-4.8	30.0
Acetone	Ave	0.6179	0.5962	0.1000	121	125	-3.5	50.0
Iodomethane	Ave	2.333	2.290		24.5	25.0	-1.8	30.0
Carbon disulfide	Lin1		3.094	0.1000	20.6	25.0	-17.7	30.0
Allyl chloride	Ave	2.650	2.547		24.0	25.0	-3.9	30.0
Methyl acetate	Ave	1.948	1.861	0.1000	47.8	50.0	-4.5	50.0
Methylene Chloride	Lin1		1.594	0.1000	24.9	25.0	-0.5	30.0
2-Methyl-2-propanol	Ave	0.1684	0.1665		247	250	-1.1	50.0
Methyl tert-butyl ether	Ave	4.765	4.594	0.1000	24.1	25.0	-3.6	30.0
trans-1,2-Dichloroethene	Ave	1.588	1.523	0.1000	24.0	25.0	-4.1	30.0
Acrylonitrile	Ave	0.9143	0.7845		215	250	-14.2	30.0
Hexane	Ave	2.493	2.286		22.9	25.0	-8.3	30.0
1,1-Dichloroethane	Ave	2.763	2.656	0.2000	24.0	25.0	-3.9	30.0
Vinyl acetate	Ave	4.192	4.128		49.2	50.0	-1.5	30.0
2,2-Dichloropropane	Ave	1.208	0.8922		18.5	25.0	-26.2	30.0
cis-1,2-Dichloroethene	Ave	1.725	1.673	0.1000	24.2	25.0	-3.0	30.0
2-Butanone (MEK)	Ave	1.215	1.164	0.1000	120	125	-4.2	30.0
Chlorobromomethane	Ave	0.8427	0.8060		23.9	25.0	-4.3	30.0
Tetrahydrofuran	Ave	0.8856	0.8220		46.4	50.0	-7.2	30.0
Chloroform	Ave	2.747	2.604	0.2000	23.7	25.0	-5.2	30.0
1,1,1-Trichloroethane	Ave	2.058	2.024	0.1000	24.6	25.0	-1.6	30.0
Cyclohexane	Ave	2.958	2.814	0.1000	23.8	25.0	-4.9	30.0
1,1-Dichloropropene	Ave	2.100	2.042		24.3	25.0	-2.8	30.0
Carbon tetrachloride	Ave	1.657	1.688	0.1000	25.5	25.0	1.9	30.0
Isobutyl alcohol	Ave	0.1171	0.1073		573	625	-8.3	50.0
Benzene	Ave	6.104	5.964	0.5000	24.4	25.0	-2.3	30.0
1,2-Dichloroethane	Ave	2.179	2.100	0.1000	24.1	25.0	-3.6	30.0
n-Heptane	Ave	2.835	2.572		22.7	25.0	-9.3	30.0
Trichloroethene	Ave	1.560	1.546	0.2000	24.8	25.0	-0.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-684845/35 Calibration Date: 09/25/2023 23:31

Instrument ID: HP5977L Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/25/2023 17:49

Lab File ID: L0994.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.779	2.629	0.1000	23.6	25.0	-5.4	30.0
1,2-Dichloropropane	Ave	1.539	1.562	0.1000	25.4	25.0	1.5	30.0
1,4-Dioxane	Ave	0.0037	0.0035		465	500	-7.0	50.0
Dibromomethane	Ave	0.9577	0.9806	0.1000	25.6	25.0	2.4	30.0
Bromodichloromethane	Ave	1.736	1.795	0.2000	25.8	25.0	3.4	30.0
2-Chloroethyl vinyl ether	Ave	1.144	1.296		28.3	25.0	13.3	30.0
cis-1,3-Dichloropropene	Ave	2.343	2.462	0.2000	26.3	25.0	5.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6601	0.6486	0.1000	123	125	-1.7	30.0
Toluene	Ave	0.9490	0.9306	0.4000	24.5	25.0	-1.9	30.0
trans-1,3-Dichloropropene	Ave	0.5242	0.5571	0.1000	26.6	25.0	6.3	30.0
Ethyl methacrylate	Ave	0.5468	0.5859		26.8	25.0	7.2	30.0
1,1,2-Trichloroethane	Ave	0.2975	0.2972	0.1000	25.0	25.0	-0.1	30.0
Tetrachloroethene	Ave	0.3878	0.3788	0.2000	24.4	25.0	-2.3	30.0
1,3-Dichloropropane	Ave	0.6318	0.6360		25.2	25.0	0.7	30.0
2-Hexanone	Ave	0.4601	0.4775	0.1000	130	125	3.8	30.0
Dibromochloromethane	Ave	0.3062	0.3375	0.1000	27.6	25.0	10.2	30.0
1,2-Dibromoethane	Ave	0.3731	0.3846		25.8	25.0	3.1	30.0
Chlorobenzene	Ave	1.033	1.022	0.5000	24.7	25.0	-1.1	30.0
Ethylbenzene	Ave	1.766	1.753	0.1000	24.8	25.0	-0.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3278	0.3378		25.8	25.0	3.1	30.0
m,p-Xylene	Ave	0.6839	0.6713	0.1000	24.5	25.0	-1.8	30.0
o-Xylene	Ave	0.6893	0.6649	0.3000	24.1	25.0	-3.5	30.0
Styrene	Ave	1.074	1.089	0.3000	25.3	25.0	1.4	30.0
Bromoform	Lin1		0.2289	0.1000	23.7	25.0	-5.0	50.0
Isopropylbenzene	Ave	3.275	3.299	0.1000	25.2	25.0	0.7	30.0
Bromobenzene	Ave	0.8031	0.8155		25.4	25.0	1.5	30.0
1,1,2,2-Tetrachloroethane	Ave	1.058	1.083	0.3000	25.6	25.0	2.3	30.0
N-Propylbenzene	Ave	3.941	3.981		25.3	25.0	1.0	30.0
1,2,3-Trichloropropane	Ave	0.3476	0.3550		25.5	25.0	2.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3460	0.3731		27.0	25.0	7.9	50.0
2-Chlorotoluene	Ave	0.7724	0.7709		25.0	25.0	-0.2	30.0
1,3,5-Trimethylbenzene	Ave	2.732	2.739		25.1	25.0	0.3	30.0
4-Chlorotoluene	Ave	2.348	2.408		25.6	25.0	2.6	30.0
tert-Butylbenzene	Ave	0.6120	0.5994		24.5	25.0	-2.1	30.0
1,2,4-Trimethylbenzene	Ave	2.855	2.833		24.8	25.0	-0.7	30.0
sec-Butylbenzene	Ave	3.566	3.468		24.3	25.0	-2.7	30.0
4-Isopropyltoluene	Ave	3.011	2.936		24.4	25.0	-2.5	30.0
1,3-Dichlorobenzene	Ave	1.558	1.536	0.6000	24.6	25.0	-1.4	30.0
1,4-Dichlorobenzene	Ave	1.596	1.558	0.5000	24.4	25.0	-2.4	30.0
n-Butylbenzene	Ave	2.811	2.700		24.0	25.0	-4.0	30.0
1,2-Dichlorobenzene	Ave	1.569	1.491	0.4000	23.8	25.0	-5.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-684845/35 Calibration Date: 09/25/2023 23:31

Instrument ID: HP5977L Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/25/2023 17:49

Lab File ID: L0994.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2112	0.2189	0.0500	25.9	25.0	3.6	50.0
1,2,4-Trichlorobenzene	Ave	1.163	1.050	0.2000	22.6	25.0	-9.7	30.0
Hexachlorobutadiene	Ave	0.4467	0.4049		22.7	25.0	-9.4	30.0
Naphthalene	Ave	3.842	3.476		22.6	25.0	-9.5	30.0
1,2,3-Trichlorobenzene	Ave	1.113	0.9911		22.3	25.0	-11.0	30.0
Dibromofluoromethane (Surr)	Ave	1.285	1.263		24.6	25.0	-1.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.588	1.540		24.2	25.0	-3.1	30.0
Toluene-d8 (Surr)	Ave	1.287	1.260		24.5	25.0	-2.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3599	0.3457		24.0	25.0	-4.0	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0994.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 25-Sep-2023 23:31:48 ALS Bottle#: 0 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0113942-035
Operator ID: LH Instrument ID: HP5977L
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:45:33 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 26-Sep-2023 11:39:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.673	-0.003	99	144655	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.548	0.000	86	580494	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	95	298838	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	90	182718	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	222703	25.0	24.2	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	731476	25.0	24.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.789	-0.003	97	200652	25.0	24.0	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	99	319624	25.0	24.9	
13 Chloromethane	50	1.940	1.937	0.003	99	341780	25.0	23.5	
14 Vinyl chloride	62	2.059	2.056	0.003	98	235756	25.0	25.6	
15 Butadiene	54	2.082	2.075	0.007	96	187839	25.0	20.2	
18 Bromomethane	94	2.422	2.416	0.006	92	112960	25.0	22.9	
19 Chloroethane	64	2.487	2.480	0.007	99	129786	25.0	23.9	
20 Dichlorofluoromethane	67	2.712	2.699	0.013	97	308721	25.0	24.6	
21 Trichlorofluoromethane	101	2.731	2.721	0.010	97	265499	25.0	22.5	
26 Ethyl ether	59	2.953	2.950	0.003	94	210634	25.0	24.2	
28 Acrolein	56	3.133	3.130	0.003	100	111078	125.0	114.5	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.162	3.155	0.007	94	199156	25.0	24.1	
30 1,1-Dichloroethene	96	3.197	3.187	0.010	97	193937	25.0	23.8	
31 Acetone	43	3.268	3.271	-0.003	99	431226	125.0	120.6	
33 Iodomethane	142	3.361	3.355	0.006	99	331301	25.0	24.5	
35 Carbon disulfide	76	3.419	3.406	0.013	99	447619	25.0	20.6	
37 3-Chloro-1-propene	41	3.506	3.503	0.003	90	368420	25.0	24.0	
38 Methyl acetate	43	3.525	3.528	-0.003	99	538353	50.0	47.8	
39 Methylene Chloride	84	3.654	3.647	0.007	96	230622	25.0	24.9	
40 2-Methyl-2-propanol	59	3.741	3.747	-0.006	99	240867	250.0	247.2	
41 Methyl tert-butyl ether	73	3.808	3.808	0.000	97	664509	25.0	24.1	
42 trans-1,2-Dichloroethene	96	3.840	3.837	0.003	98	220238	25.0	24.0	
44 Acrylonitrile	53	3.879	3.879	0.000	99	1134828	250.0	214.5	
47 Hexane	57	3.998	3.998	0.000	94	330617	25.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	384271	25.0	24.0	
49 Vinyl acetate	43	4.229	4.229	0.000	97	1194170	50.0	49.2	
56 2,2-Dichloropropane	77	4.686	4.686	0.000	88	129060	25.0	18.5	
58 cis-1,2-Dichloroethene	96	4.712	4.708	0.004	80	242020	25.0	24.2	
57 2-Butanone (MEK)	43	4.721	4.721	0.000	100	842049	125.0	119.7	
60 Chlorobromomethane	128	4.930	4.930	0.000	97	116596	25.0	23.9	
61 Tetrahydrofuran	42	4.946	4.946	0.000	91	237824	50.0	46.4	
62 Chloroform	83	4.979	4.978	0.001	94	376713	25.0	23.7	
64 1,1,1-Trichloroethane	97	5.110	5.110	0.000	99	292795	25.0	24.6	
65 Cyclohexane	56	5.130	5.130	0.000	94	407043	25.0	23.8	
66 Carbon tetrachloride	117	5.242	5.239	0.003	93	244184	25.0	25.5	
67 1,1-Dichloropropene	75	5.239	5.242	-0.003	93	295412	25.0	24.3	
69 Isobutyl alcohol	43	5.364	5.367	-0.003	98	387986	625.0	572.8	
70 Benzene	78	5.435	5.435	0.000	97	862686	25.0	24.4	
72 1,2-Dichloroethane	62	5.490	5.486	0.004	96	303785	25.0	24.1	
73 n-Heptane	43	5.551	5.551	0.000	96	371991	25.0	22.7	
75 Trichloroethene	95	5.988	5.988	0.000	98	223652	25.0	24.8	
76 Methylcyclohexane	83	6.110	6.110	0.000	93	380226	25.0	23.6	
77 1,2-Dichloropropane	63	6.220	6.220	0.000	95	225931	25.0	25.4	
81 1,4-Dioxane	88	6.335	6.339	-0.004	96	40198	500.0	465.2	
82 Dibromomethane	93	6.355	6.355	0.000	96	141853	25.0	25.6	
83 Dichlorobromomethane	83	6.477	6.480	-0.003	98	259634	25.0	25.8	
84 2-Chloroethyl vinyl ether	63	6.708	6.712	-0.004	92	187469	25.0	28.3	
85 cis-1,3-Dichloropropene	75	6.869	6.869	0.000	94	356207	25.0	26.3	
87 4-Methyl-2-pentanone (MIBK)	43	6.982	6.985	-0.003	98	1882638	125.0	122.8	
88 Toluene	92	7.155	7.155	0.000	98	540187	25.0	24.5	
91 trans-1,3-Dichloropropene	75	7.403	7.406	-0.003	94	323376	25.0	26.6	
90 Ethyl methacrylate	69	7.409	7.412	-0.003	89	340103	25.0	26.8	
93 1,1,2-Trichloroethane	83	7.599	7.596	0.003	92	172507	25.0	25.0	
94 Tetrachloroethene	166	7.676	7.679	-0.003	96	219864	25.0	24.4	
95 1,3-Dichloropropane	76	7.760	7.763	-0.003	94	369209	25.0	25.2	
96 2-Hexanone	43	7.789	7.792	-0.003	99	1386003	125.0	129.7	
98 Chlorodibromomethane	129	8.001	8.001	0.000	90	195910	25.0	27.6	
101 Ethylene Dibromide	107	8.123	8.123	0.000	100	223260	25.0	25.8	
103 Chlorobenzene	112	8.577	8.580	-0.003	95	593243	25.0	24.7	
104 Ethylbenzene	91	8.644	8.647	-0.003	99	1017588	25.0	24.8	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	95	196109	25.0	25.8	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.000	99	389674	25.0	24.5	
107 o-Xylene	106	9.194	9.194	0.000	98	385958	25.0	24.1	
109 Styrene	104	9.220	9.219	0.001	95	631962	25.0	25.3	
110 Bromoform	173	9.490	9.493	-0.003	95	132874	25.0	23.7	
111 Isopropylbenzene	105	9.564	9.564	0.000	96	985836	25.0	25.2	
113 Bromobenzene	156	9.959	9.959	0.000	95	243708	25.0	25.4	
112 1,1,2,2-Tetrachloroethane	83	9.972	9.975	-0.003	94	323613	25.0	25.6	
114 N-Propylbenzene	91	10.011	10.010	0.001	99	1189621	25.0	25.3	
115 trans-1,4-Dichloro-2-butene	53	10.024	10.023	0.001	75	111502	25.0	27.0	
116 1,2,3-Trichloropropane	110	10.024	10.027	-0.003	87	106102	25.0	25.5	
117 2-Chlorotoluene	126	10.139	10.139	0.000	97	230361	25.0	25.0	
118 1,3,5-Trimethylbenzene	105	10.187	10.187	0.000	94	818591	25.0	25.1	
119 4-Chlorotoluene	91	10.252	10.252	0.000	98	719649	25.0	25.6	
120 tert-Butylbenzene	134	10.519	10.518	0.001	93	179125	25.0	24.5	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	97	846750	25.0	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	1036436	25.0	24.3	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	97	877292	25.0	24.4	
124 1,3-Dichlorobenzene	146	10.888	10.888	0.000	98	458972	25.0	24.6	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	94	465647	25.0	24.4	
127 n-Butylbenzene	91	11.249	11.248	0.001	98	806877	25.0	24.0	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	445697	25.0	23.8	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.030	0.000	83	65413	25.0	25.9	
130 1,2,4-Trichlorobenzene	180	12.657	12.660	-0.003	95	313865	25.0	22.6	
131 Hexachlorobutadiene	225	12.747	12.747	0.000	96	120986	25.0	22.7	
132 Naphthalene	128	12.869	12.869	0.000	97	1038726	25.0	22.6	
133 1,2,3-Trichlorobenzene	180	13.062	13.065	-0.003	96	296184	25.0	22.3	

QC Flag Legend

Processing Flags

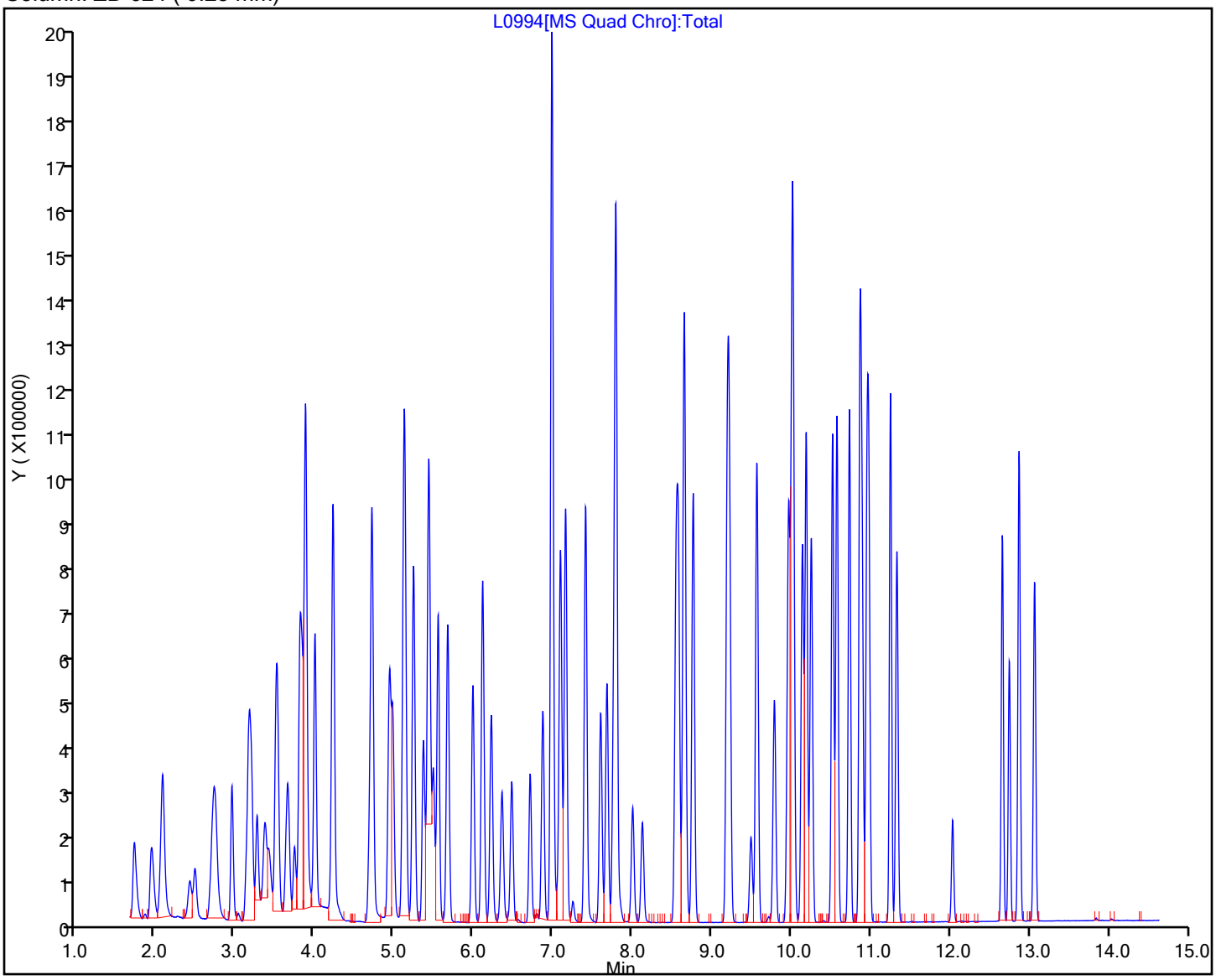
Reagents:

SS GAS CORP_00537	Amount Added: 12.50	Units: uL	
SS 8260 CORP_00109	Amount Added: 12.50	Units: uL	
L_8260_IS_00050	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_SURR_00048	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 26-Sep-2023 11:45:35 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0994.D
Injection Date: 25-Sep-2023 23:31:48 Instrument ID: HP5977L
Lims ID: ICV
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



10/13/2023
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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685187/5 Calibration Date: 09/27/2023 12:48

Instrument ID: HP5977L Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/25/2023 17:49

Lab File ID: L1010.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.215	2.134	0.1000	24.1	25.0	-3.7	50.0
Chloromethane	Ave	2.508	2.312	0.1000	23.0	25.0	-7.8	20.0
Vinyl chloride	Ave	1.592	1.645	0.1000	25.8	25.0	3.3	20.0
Butadiene	Ave	1.606	1.583		24.6	25.0	-1.4	20.0
Bromomethane	Lin1		0.7845	0.1000	23.0	25.0	-7.8	50.0
Chloroethane	Ave	0.9376	0.9044	0.1000	24.1	25.0	-3.5	50.0
Dichlorofluoromethane	Ave	2.173	2.102		24.2	25.0	-3.3	20.0
Trichlorofluoromethane	Lin1		1.875	0.1000	22.9	25.0	-8.3	20.0
Ethyl ether	Ave	1.501	1.424		23.7	25.0	-5.2	20.0
Acrolein	Ave	0.1677	0.1706		127	125	1.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.427	1.398	0.1000	24.5	25.0	-2.0	20.0
1,1-Dichloroethene	Ave	1.409	1.375	0.1000	24.4	25.0	-2.4	20.0
Acetone	Ave	0.6179	0.6097	0.1000	123	125	-1.3	50.0
Iodomethane	Ave	2.333	2.271		24.3	25.0	-2.7	20.0
Carbon disulfide	Lin1		3.164	0.1000	21.0	25.0	-15.9	20.0
Allyl chloride	Ave	2.650	2.623		24.7	25.0	-1.0	20.0
Methyl acetate	Ave	1.948	1.785	0.1000	45.8	50.0	-8.4	50.0
Methylene Chloride	Lin1		1.575	0.1000	24.6	25.0	-1.7	20.0
2-Methyl-2-propanol	Ave	0.1684	0.1602		238	250	-4.9	50.0
Methyl tert-butyl ether	Ave	4.765	4.665	0.1000	24.5	25.0	-2.1	20.0
trans-1,2-Dichloroethene	Ave	1.588	1.513	0.1000	23.8	25.0	-4.7	20.0
Acrylonitrile	Ave	0.9143	0.7814		214	250	-14.5	20.0
Hexane	Ave	2.493	2.392		24.0	25.0	-4.0	20.0
1,1-Dichloroethane	Ave	2.763	2.606	0.2000	23.6	25.0	-5.7	20.0
Vinyl acetate	Ave	4.192	4.121		49.2	50.0	-1.7	20.0
2,2-Dichloropropane	Ave	1.208	1.142		23.6	25.0	-5.5	20.0
cis-1,2-Dichloroethene	Ave	1.725	1.628	0.1000	23.6	25.0	-5.6	20.0
2-Butanone (MEK)	Ave	1.215	1.119	0.1000	115	125	-7.9	20.0
Chlorobromomethane	Ave	0.8427	0.8000		23.7	25.0	-5.1	20.0
Tetrahydrofuran	Ave	0.8856	0.7899		44.6	50.0	-10.8	20.0
Chloroform	Ave	2.747	2.571	0.2000	23.4	25.0	-6.4	20.0
1,1,1-Trichloroethane	Ave	2.058	1.999	0.1000	24.3	25.0	-2.8	20.0
Cyclohexane	Ave	2.958	2.821	0.1000	23.8	25.0	-4.6	20.0
Carbon tetrachloride	Ave	1.657	1.677	0.1000	25.3	25.0	1.2	20.0
1,1-Dichloropropene	Ave	2.100	2.039		24.3	25.0	-2.9	20.0
Isobutyl alcohol	Ave	0.1171	0.1002		535	625	-14.4	50.0
Benzene	Ave	6.104	5.834	0.5000	23.9	25.0	-4.4	20.0
1,2-Dichloroethane	Ave	2.179	2.081	0.1000	23.9	25.0	-4.5	20.0
n-Heptane	Ave	2.835	2.721		24.0	25.0	-4.0	20.0
Trichloroethene	Ave	1.560	1.528	0.2000	24.5	25.0	-2.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685187/5 Calibration Date: 09/27/2023 12:48

Instrument ID: HP5977L Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/25/2023 17:49

Lab File ID: L1010.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.779	2.670	0.1000	24.0	25.0	-3.9	20.0
1,2-Dichloropropane	Ave	1.539	1.512	0.1000	24.6	25.0	-1.8	20.0
1,4-Dioxane	Ave	0.0037	0.0035		473	500	-5.3	50.0
Dibromomethane	Ave	0.9577	0.9547	0.1000	24.9	25.0	-0.3	20.0
Bromodichloromethane	Ave	1.736	1.798	0.2000	25.9	25.0	3.5	20.0
2-Chloroethyl vinyl ether	Ave	1.144	1.203		26.3	25.0	5.1	20.0
cis-1,3-Dichloropropene	Ave	2.343	2.437	0.2000	26.0	25.0	4.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6601	0.6028	0.1000	114	125	-8.7	20.0
Toluene	Ave	0.9490	0.9031	0.4000	23.8	25.0	-4.8	20.0
trans-1,3-Dichloropropene	Ave	0.5242	0.5476	0.1000	26.1	25.0	4.5	20.0
Ethyl methacrylate	Ave	0.5468	0.5524		25.3	25.0	1.0	20.0
1,1,2-Trichloroethane	Ave	0.2975	0.2846	0.1000	23.9	25.0	-4.3	20.0
Tetrachloroethene	Ave	0.3878	0.3711	0.2000	23.9	25.0	-4.3	20.0
1,3-Dichloropropane	Ave	0.6318	0.6031		23.9	25.0	-4.5	20.0
2-Hexanone	Ave	0.4601	0.4215	0.1000	115	125	-8.4	20.0
Dibromochloromethane	Ave	0.3062	0.3235	0.1000	26.4	25.0	5.6	20.0
1,2-Dibromoethane	Ave	0.3731	0.3671		24.6	25.0	-1.6	20.0
Chlorobenzene	Ave	1.033	0.9941	0.5000	24.1	25.0	-3.8	20.0
Ethylbenzene	Ave	1.766	1.687	0.1000	23.9	25.0	-4.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3278	0.3318		25.3	25.0	1.2	20.0
m,p-Xylene	Ave	0.6839	0.6570	0.1000	24.0	25.0	-3.9	20.0
o-Xylene	Ave	0.6893	0.6552	0.3000	23.8	25.0	-4.9	20.0
Styrene	Ave	1.074	1.052	0.3000	24.5	25.0	-2.1	20.0
Bromoform	Lin1		0.2162	0.1000	22.5	25.0	-10.2	50.0
Isopropylbenzene	Ave	3.275	3.334	0.1000	25.4	25.0	1.8	20.0
Bromobenzene	Ave	0.8031	0.8011		24.9	25.0	-0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.058	1.052	0.3000	24.8	25.0	-0.7	20.0
N-Propylbenzene	Ave	3.941	4.000		25.4	25.0	1.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3460	0.3697		26.7	25.0	6.9	50.0
1,2,3-Trichloropropane	Ave	0.3476	0.3430		24.7	25.0	-1.3	20.0
2-Chlorotoluene	Ave	0.7724	0.7810		25.3	25.0	1.1	20.0
1,3,5-Trimethylbenzene	Ave	2.732	2.793		25.6	25.0	2.2	20.0
4-Chlorotoluene	Ave	2.348	2.391		25.5	25.0	1.8	20.0
tert-Butylbenzene	Ave	0.6120	0.6168		25.2	25.0	0.8	20.0
1,2,4-Trimethylbenzene	Ave	2.855	2.869		25.1	25.0	0.5	20.0
sec-Butylbenzene	Ave	3.566	3.572		25.0	25.0	0.2	20.0
4-Isopropyltoluene	Ave	3.011	3.032		25.2	25.0	0.7	20.0
1,3-Dichlorobenzene	Ave	1.558	1.519	0.6000	24.4	25.0	-2.5	20.0
1,4-Dichlorobenzene	Ave	1.596	1.562	0.5000	24.5	25.0	-2.1	20.0
n-Butylbenzene	Ave	2.811	2.788		24.8	25.0	-0.8	20.0
1,2-Dichlorobenzene	Ave	1.569	1.478	0.4000	23.5	25.0	-5.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685187/5 Calibration Date: 09/27/2023 12:48

Instrument ID: HP5977L Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/25/2023 17:49

Lab File ID: L1010.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2112	0.2059	0.0500	24.4	25.0	-2.5	50.0
1,2,4-Trichlorobenzene	Ave	1.163	1.080	0.2000	23.2	25.0	-7.1	20.0
Hexachlorobutadiene	Ave	0.4467	0.4515		25.3	25.0	1.1	20.0
Naphthalene	Ave	3.842	3.526		22.9	25.0	-8.2	20.0
1,2,3-Trichlorobenzene	Ave	1.113	1.028		23.1	25.0	-7.6	20.0
Dibromofluoromethane (Surr)	Ave	1.285	1.297		25.2	25.0	0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.588	1.584		24.9	25.0	-0.3	20.0
Toluene-d8 (Surr)	Ave	1.287	1.269		24.6	25.0	-1.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3599	0.3593		25.0	25.0	-0.2	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1010.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Sep-2023 12:48:01 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0113994-005
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 13:41:23 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: WLL8 Date: 27-Sep-2023 13:41:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.667	5.667	0.000	99	146688	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.544	8.544	0.000	88	586613	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.949	10.949	0.000	95	292750	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.120	5.120	0.000	90	190306	25.0	25.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.419	5.419	0.000	98	232337	25.0	24.9	
$ 6 Toluene-d8 (Surr)	98	7.088	7.088	0.000	94	744447	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	98	210776	25.0	25.0	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	99	312966	25.0	24.1	
13 Chloromethane	50	1.940	1.940	0.000	99	339092	25.0	23.0	
14 Vinyl chloride	62	2.052	2.052	0.000	98	241272	25.0	25.8	
15 Butadiene	54	2.078	2.078	0.000	94	232199	25.0	24.6	
18 Bromomethane	94	2.419	2.419	0.000	92	115075	25.0	23.0	
19 Chloroethane	64	2.483	2.483	0.000	99	132670	25.0	24.1	
20 Dichlorofluoromethane	67	2.705	2.705	0.000	97	308274	25.0	24.2	
21 Trichlorofluoromethane	101	2.724	2.724	0.000	98	275016	25.0	22.9	
26 Ethyl ether	59	2.950	2.950	0.000	98	208844	25.0	23.7	
28 Acrolein	56	3.130	3.130	0.000	99	125160	125.0	127.2	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.159	3.159	0.000	94	205120	25.0	24.5	
30 1,1-Dichloroethene	96	3.187	3.187	0.000	97	201669	25.0	24.4	
31 Acetone	43	3.268	3.268	0.000	99	447144	125.0	123.3	
33 Iodomethane	142	3.358	3.358	0.000	99	333084	25.0	24.3	
35 Carbon disulfide	76	3.409	3.409	0.000	100	464068	25.0	21.0	
37 3-Chloro-1-propene	41	3.503	3.503	0.000	91	384787	25.0	24.7	
38 Methyl acetate	43	3.525	3.525	0.000	99	523784	50.0	45.8	
39 Methylene Chloride	84	3.644	3.644	0.000	97	231034	25.0	24.6	
40 2-Methyl-2-propanol	59	3.741	3.741	0.000	99	234928	250.0	237.8	
41 Methyl tert-butyl ether	73	3.805	3.805	0.000	97	684233	25.0	24.5	
42 trans-1,2-Dichloroethene	96	3.837	3.837	0.000	98	221879	25.0	23.8	
44 Acrylonitrile	53	3.876	3.876	0.000	98	1146290	250.0	213.7	
47 Hexane	57	3.995	3.995	0.000	94	350912	25.0	24.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	382237	25.0	23.6	
49 Vinyl acetate	43	4.226	4.226	0.000	97	1209147	50.0	49.2	
56 2,2-Dichloropropane	77	4.683	4.683	0.000	92	167477	25.0	23.6	
58 cis-1,2-Dichloroethene	96	4.708	4.708	0.000	82	238744	25.0	23.6	
57 2-Butanone (MEK)	43	4.718	4.718	0.000	100	821077	125.0	115.1	
60 Chlorobromomethane	128	4.924	4.924	0.000	97	117354	25.0	23.7	
61 Tetrahydrofuran	42	4.943	4.943	0.000	91	231735	50.0	44.6	
62 Chloroform	83	4.975	4.975	0.000	93	377083	25.0	23.4	
64 1,1,1-Trichloroethane	97	5.107	5.107	0.000	99	293264	25.0	24.3	
65 Cyclohexane	56	5.126	5.126	0.000	94	413827	25.0	23.8	
66 Carbon tetrachloride	117	5.236	5.236	0.000	93	245997	25.0	25.3	
67 1,1-Dichloropropene	75	5.239	5.239	0.000	97	299026	25.0	24.3	
69 Isobutyl alcohol	43	5.361	5.361	0.000	94	367459	625.0	535.0	
70 Benzene	78	5.435	5.435	0.000	97	855827	25.0	23.9	
72 1,2-Dichloroethane	62	5.486	5.486	0.000	97	305295	25.0	23.9	
73 n-Heptane	43	5.548	5.548	0.000	96	399139	25.0	24.0	
75 Trichloroethene	95	5.985	5.985	0.000	98	224157	25.0	24.5	
76 Methylcyclohexane	83	6.107	6.107	0.000	92	391670	25.0	24.0	
77 1,2-Dichloropropane	63	6.216	6.216	0.000	95	221804	25.0	24.6	
81 1,4-Dioxane	88	6.335	6.335	0.000	96	41329	500.0	473.3	M
82 Dibromomethane	93	6.351	6.351	0.000	97	140050	25.0	24.9	
83 Dichlorobromomethane	83	6.474	6.474	0.000	98	263690	25.0	25.9	
84 2-Chloroethyl vinyl ether	63	6.705	6.705	0.000	93	176393	25.0	26.3	
85 cis-1,3-Dichloropropene	75	6.866	6.866	0.000	95	357442	25.0	26.0	
87 4-Methyl-2-pentanone (MIBK)	43	6.982	6.982	0.000	98	1768010	125.0	114.1	
88 Toluene	92	7.152	7.152	0.000	98	529796	25.0	23.8	
91 trans-1,3-Dichloropropene	75	7.403	7.403	0.000	95	321242	25.0	26.1	
90 Ethyl methacrylate	69	7.409	7.409	0.000	91	324055	25.0	25.3	
93 1,1,2-Trichloroethane	83	7.596	7.596	0.000	92	166962	25.0	23.9	
94 Tetrachloroethene	166	7.673	7.673	0.000	96	217667	25.0	23.9	
95 1,3-Dichloropropane	76	7.760	7.760	0.000	97	353805	25.0	23.9	
96 2-Hexanone	43	7.785	7.785	0.000	98	1236362	125.0	114.5	
98 Chlorodibromomethane	129	7.998	7.998	0.000	91	189744	25.0	26.4	
101 Ethylene Dibromide	107	8.120	8.120	0.000	99	215328	25.0	24.6	
103 Chlorobenzene	112	8.573	8.573	0.000	95	583166	25.0	24.1	
104 Ethylbenzene	91	8.644	8.644	0.000	98	989477	25.0	23.9	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	95	194656	25.0	25.3	
106 m-Xylene & p-Xylene	106	8.760	8.760	0.000	99	385398	25.0	24.0	
107 o-Xylene	106	9.191	9.191	0.000	96	384324	25.0	23.8	
109 Styrene	104	9.216	9.216	0.000	96	617004	25.0	24.5	
110 Bromoform	173	9.490	9.490	0.000	95	126848	25.0	22.5	
111 Isopropylbenzene	105	9.564	9.564	0.000	96	976114	25.0	25.4	
113 Bromobenzene	156	9.959	9.959	0.000	95	234534	25.0	24.9	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.975	0.000	94	307857	25.0	24.8	
114 N-Propylbenzene	91	10.007	10.007	0.000	99	1170927	25.0	25.4	
115 trans-1,4-Dichloro-2-butene	53	10.020	10.020	0.000	75	108218	25.0	26.7	
116 1,2,3-Trichloropropane	110	10.023	10.023	0.000	87	100423	25.0	24.7	
117 2-Chlorotoluene	126	10.136	10.136	0.000	97	228646	25.0	25.3	
118 1,3,5-Trimethylbenzene	105	10.184	10.184	0.000	94	817719	25.0	25.6	
119 4-Chlorotoluene	91	10.248	10.248	0.000	98	699869	25.0	25.5	
120 tert-Butylbenzene	134	10.518	10.518	0.000	93	180582	25.0	25.2	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	97	839957	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.727	10.727	0.000	94	1045770	25.0	25.0	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	97	887480	25.0	25.2	
124 1,3-Dichlorobenzene	146	10.888	10.888	0.000	98	444668	25.0	24.4	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	94	457207	25.0	24.5	
127 n-Butylbenzene	91	11.248	11.248	0.000	98	816305	25.0	24.8	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	432676	25.0	23.5	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.030	0.000	84	60276	25.0	24.4	
130 1,2,4-Trichlorobenzene	180	12.657	12.657	0.000	94	316093	25.0	23.2	
131 Hexachlorobutadiene	225	12.744	12.744	0.000	97	132174	25.0	25.3	
132 Naphthalene	128	12.866	12.866	0.000	97	1032326	25.0	22.9	
133 1,2,3-Trichlorobenzene	180	13.062	13.062	0.000	95	300930	25.0	23.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

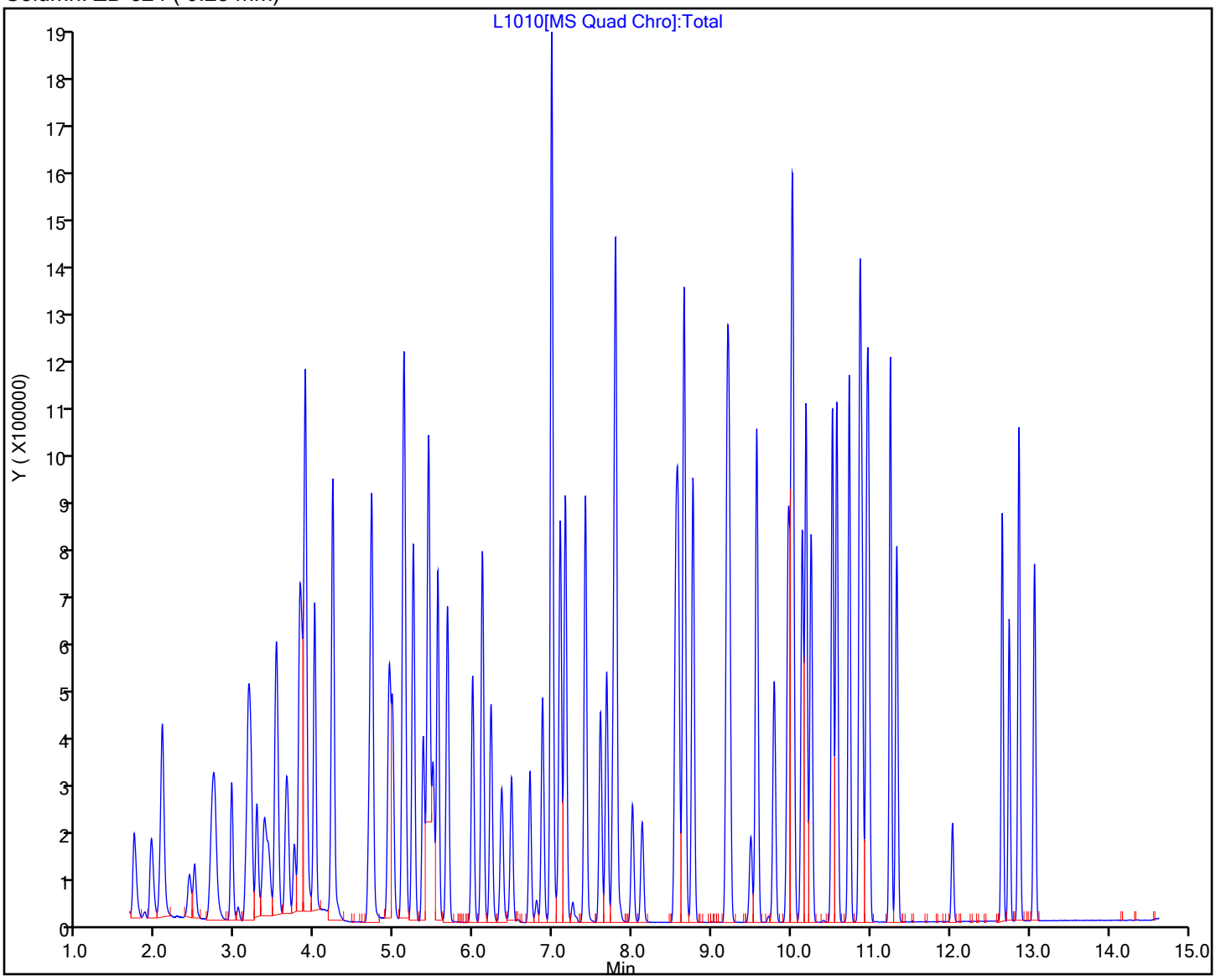
Reagents:

8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
GAS CORP mix_00587	Amount Added: 12.50	Units: uL	
L_8260_SURR_00048	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 27-Sep-2023 13:41:23 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1010.D
Injection Date: 27-Sep-2023 12:48:01 Instrument ID: HP5977L
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Manual Integration/User Assign Peak Report

Eurofins Buffalo

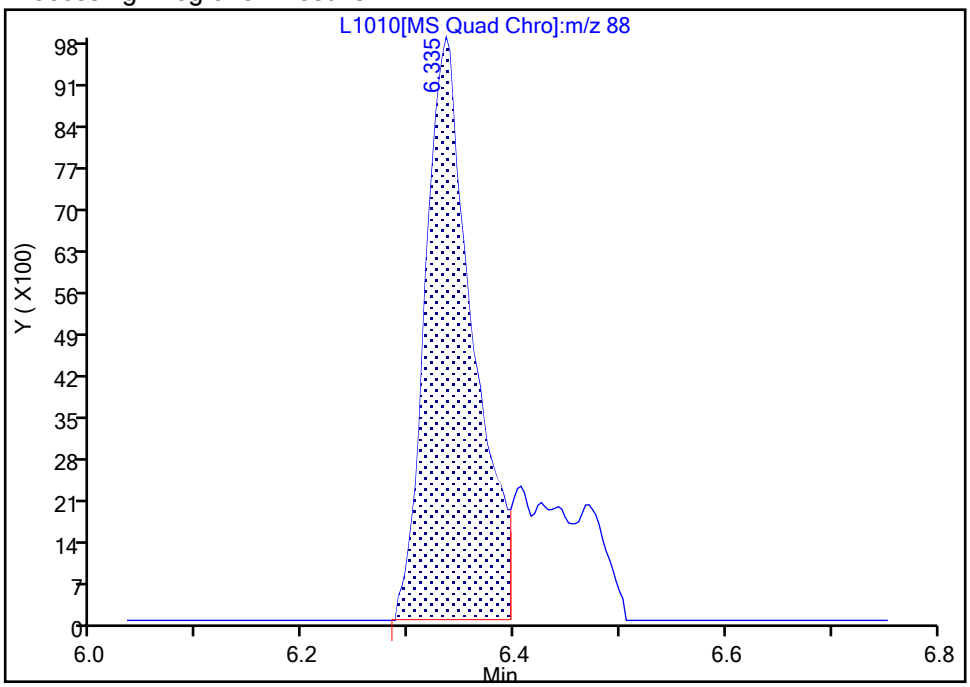
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1010.D
Injection Date: 27-Sep-2023 12:48:01 Instrument ID: HP5977L
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

81 1,4-Dioxane, CAS: 123-91-1

Signal: 1

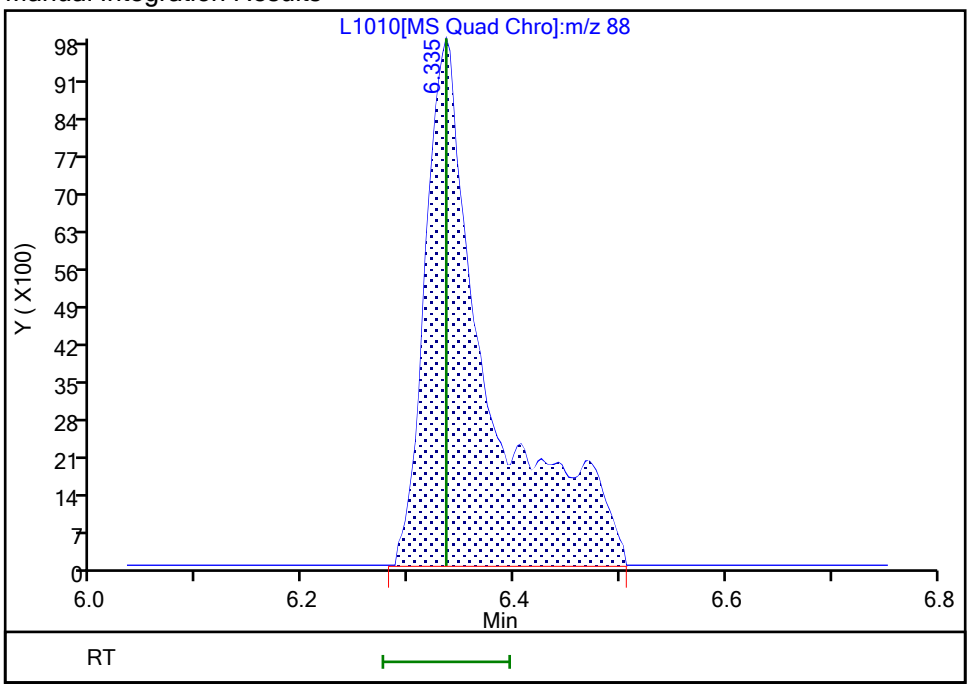
Processing Integration Results

RT: 6.34
Area: 30701
Amount: 351.6012
Amount Units: ug/L



Manual Integration Results

RT: 6.34
Area: 41329
Amount: 473.3177
Amount Units: ug/L



Reviewer: WLL8, 27-Sep-2023 13:41:09 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685418/4 Calibration Date: 09/29/2023 00:25

Instrument ID: HP5977L Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/25/2023 17:49

Lab File ID: L1071.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.215	2.024	0.1000	22.8	25.0	-8.6	50.0
Chloromethane	Ave	2.508	2.156	0.1000	21.5	25.0	-14.0	20.0
Vinyl chloride	Ave	1.592	1.642	0.1000	25.8	25.0	3.1	20.0
Butadiene	Ave	1.606	1.502		23.4	25.0	-6.5	20.0
Bromomethane	Lin1		0.8317	0.1000	24.4	25.0	-2.5	50.0
Chloroethane	Ave	0.9376	0.8642	0.1000	23.0	25.0	-7.8	50.0
Dichlorofluoromethane	Ave	2.173	2.089		24.0	25.0	-3.8	20.0
Trichlorofluoromethane	Lin1		1.894	0.1000	23.2	25.0	-7.3	20.0
Ethyl ether	Ave	1.501	1.359		22.6	25.0	-9.5	20.0
Acrolein	Ave	0.1677	0.1717		128	125	2.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.427	1.412	0.1000	24.7	25.0	-1.0	20.0
1,1-Dichloroethene	Ave	1.409	1.354	0.1000	24.0	25.0	-3.9	20.0
Acetone	Ave	0.6179	0.7991	0.1000	162	125	29.3	50.0
Iodomethane	Ave	2.333	2.272		24.3	25.0	-2.6	20.0
Carbon disulfide	Lin1		2.982	0.1000	19.9	25.0	-20.6*	20.0
Allyl chloride	Ave	2.650	2.442		23.0	25.0	-7.9	20.0
Methyl acetate	Ave	1.948	2.072	0.1000	53.2	50.0	6.4	50.0
Methylene Chloride	Lin1		1.598	0.1000	24.9	25.0	-0.3	20.0
2-Methyl-2-propanol	Ave	0.1684	0.2302		342	250	36.7	50.0
Methyl tert-butyl ether	Ave	4.765	4.567	0.1000	24.0	25.0	-4.2	20.0
trans-1,2-Dichloroethene	Ave	1.588	1.535	0.1000	24.2	25.0	-3.3	20.0
Acrylonitrile	Ave	0.9143	0.8922		244	250	-2.4	20.0
Hexane	Ave	2.493	2.337		23.4	25.0	-6.2	20.0
1,1-Dichloroethane	Ave	2.763	2.599	0.2000	23.5	25.0	-5.9	20.0
Vinyl acetate	Ave	4.192	3.815		45.5	50.0	-9.0	20.0
2,2-Dichloropropane	Ave	1.208	0.9918		20.5	25.0	-17.9	20.0
cis-1,2-Dichloroethene	Ave	1.725	1.648	0.1000	23.9	25.0	-4.5	20.0
2-Butanone (MEK)	Ave	1.215	1.409	0.1000	145	125	15.9	20.0
Chlorobromomethane	Ave	0.8427	0.8264		24.5	25.0	-1.9	20.0
Tetrahydrofuran	Ave	0.8856	0.9245		52.2	50.0	4.4	20.0
Chloroform	Ave	2.747	2.547	0.2000	23.2	25.0	-7.3	20.0
1,1,1-Trichloroethane	Ave	2.058	2.058	0.1000	25.0	25.0	-0.0	20.0
Cyclohexane	Ave	2.958	2.830	0.1000	23.9	25.0	-4.3	20.0
1,1-Dichloropropene	Ave	2.100	2.048		24.4	25.0	-2.5	20.0
Carbon tetrachloride	Ave	1.657	1.730	0.1000	26.1	25.0	4.4	20.0
Isobutyl alcohol	Ave	0.1171	0.1471		785	625	25.7	50.0
Benzene	Ave	6.104	5.866	0.5000	24.0	25.0	-3.9	20.0
1,2-Dichloroethane	Ave	2.179	2.111	0.1000	24.2	25.0	-3.1	20.0
n-Heptane	Ave	2.835	2.651		23.4	25.0	-6.5	20.0
Trichloroethene	Ave	1.560	1.541	0.2000	24.7	25.0	-1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685418/4 | Calibration Date: 09/29/2023 00:25

Instrument ID: HP5977L | Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) | Calib End Date: 09/25/2023 17:49

Lab File ID: L1071.D | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.779	2.714	0.1000	24.4	25.0	-2.3	20.0
1,2-Dichloropropane	Ave	1.539	1.527	0.1000	24.8	25.0	-0.8	20.0
1,4-Dioxane	Ave	0.0037	0.0035		476	500	-4.8	50.0
Dibromomethane	Ave	0.9577	1.003	0.1000	26.2	25.0	4.7	20.0
Bromodichloromethane	Ave	1.736	1.771	0.2000	25.5	25.0	2.0	20.0
2-Chloroethyl vinyl ether	Ave	1.144	1.235		27.0	25.0	8.0	20.0
cis-1,3-Dichloropropene	Ave	2.343	2.339	0.2000	25.0	25.0	-0.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6601	0.6647	0.1000	126	125	0.7	20.0
Toluene	Ave	0.9490	0.9153	0.4000	24.1	25.0	-3.5	20.0
trans-1,3-Dichloropropene	Ave	0.5242	0.5282	0.1000	25.2	25.0	0.8	20.0
Ethyl methacrylate	Ave	0.5468	0.5570		25.5	25.0	1.9	20.0
1,1,2-Trichloroethane	Ave	0.2975	0.2945	0.1000	24.7	25.0	-1.0	20.0
Tetrachloroethene	Ave	0.3878	0.3722	0.2000	24.0	25.0	-4.0	20.0
1,3-Dichloropropane	Ave	0.6318	0.6046		23.9	25.0	-4.3	20.0
2-Hexanone	Ave	0.4601	0.4753	0.1000	129	125	3.3	20.0
Dibromochloromethane	Ave	0.3062	0.3225	0.1000	26.3	25.0	5.3	20.0
1,2-Dibromoethane	Ave	0.3731	0.3698		24.8	25.0	-0.9	20.0
Chlorobenzene	Ave	1.033	1.001	0.5000	24.2	25.0	-3.1	20.0
Ethylbenzene	Ave	1.766	1.686	0.1000	23.9	25.0	-4.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3278	0.3354		25.6	25.0	2.3	20.0
m,p-Xylene	Ave	0.6839	0.6628	0.1000	24.2	25.0	-3.1	20.0
o-Xylene	Ave	0.6893	0.6643	0.3000	24.1	25.0	-3.6	20.0
Styrene	Ave	1.074	1.047	0.3000	24.4	25.0	-2.6	20.0
Bromoform	Lin1		0.2119	0.1000	22.0	25.0	-11.9	50.0
Isopropylbenzene	Ave	3.275	3.266	0.1000	24.9	25.0	-0.3	20.0
Bromobenzene	Ave	0.8031	0.7789		24.2	25.0	-3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	1.058	1.053	0.3000	24.9	25.0	-0.5	20.0
N-Propylbenzene	Ave	3.941	3.876		24.6	25.0	-1.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3460	0.3089		22.3	25.0	-10.7	50.0
1,2,3-Trichloropropane	Ave	0.3476	0.3555		25.6	25.0	2.3	20.0
2-Chlorotoluene	Ave	0.7724	0.7601		24.6	25.0	-1.6	20.0
1,3,5-Trimethylbenzene	Ave	2.732	2.736		25.0	25.0	0.1	20.0
4-Chlorotoluene	Ave	2.348	2.310		24.6	25.0	-1.6	20.0
tert-Butylbenzene	Ave	0.6120	0.6080		24.8	25.0	-0.7	20.0
1,2,4-Trimethylbenzene	Ave	2.855	2.821		24.7	25.0	-1.2	20.0
sec-Butylbenzene	Ave	3.566	3.485		24.4	25.0	-2.3	20.0
4-Isopropyltoluene	Ave	3.011	2.969		24.6	25.0	-1.4	20.0
1,3-Dichlorobenzene	Ave	1.558	1.485	0.6000	23.8	25.0	-4.7	20.0
1,4-Dichlorobenzene	Ave	1.596	1.529	0.5000	24.0	25.0	-4.2	20.0
n-Butylbenzene	Ave	2.811	2.725		24.2	25.0	-3.1	20.0
1,2-Dichlorobenzene	Ave	1.569	1.485	0.4000	23.7	25.0	-5.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCVIS 480-685418/4 Calibration Date: 09/29/2023 00:25

Instrument ID: HP5977L Calib Start Date: 09/25/2023 14:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 09/25/2023 17:49

Lab File ID: L1071.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2112	0.2322	0.0500	27.5	25.0	9.9	50.0
1,2,4-Trichlorobenzene	Ave	1.163	1.075	0.2000	23.1	25.0	-7.6	20.0
Hexachlorobutadiene	Ave	0.4467	0.4021		22.5	25.0	-10.0	20.0
Naphthalene	Ave	3.842	3.866		25.2	25.0	0.6	20.0
1,2,3-Trichlorobenzene	Ave	1.113	1.031		23.1	25.0	-7.4	20.0
Dibromofluoromethane (Surr)	Ave	1.285	1.301		25.3	25.0	1.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.588	1.579		24.8	25.0	-0.6	20.0
Toluene-d8 (Surr)	Ave	1.287	1.265		24.6	25.0	-1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3599	0.3509		24.4	25.0	-2.5	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1071.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Sep-2023 00:25:29 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0114025-004
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:26:52 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:26:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	128842	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.544	8.544	0.000	89	520192	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	95	270634	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.120	5.120	0.000	82	167686	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.419	5.419	0.000	97	203394	25.0	24.8	
$ 6 Toluene-d8 (Surr)	98	7.088	7.088	0.000	94	658154	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.785	0.000	98	182540	25.0	24.4	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	99	260813	25.0	22.8	
13 Chloromethane	50	1.940	1.940	0.000	99	277798	25.0	21.5	
14 Vinyl chloride	62	2.053	2.053	0.000	98	211595	25.0	25.8	
15 Butadiene	54	2.078	2.078	0.000	95	193536	25.0	23.4	
18 Bromomethane	94	2.413	2.413	0.000	94	107163	25.0	24.4	
19 Chloroethane	64	2.483	2.483	0.000	99	111351	25.0	23.0	
20 Dichlorofluoromethane	67	2.705	2.705	0.000	97	269157	25.0	24.0	
21 Trichlorofluoromethane	101	2.721	2.721	0.000	98	244076	25.0	23.2	
26 Ethyl ether	59	2.946	2.946	0.000	95	175059	25.0	22.6	
28 Acrolein	56	3.126	3.126	0.000	100	110581	125.0	128.0	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.159	3.159	0.000	94	181948	25.0	24.7	
30 1,1-Dichloroethene	96	3.191	3.191	0.000	96	174423	25.0	24.0	
31 Acetone	43	3.268	3.268	0.000	99	514778	125.0	161.7	
33 Iodomethane	142	3.358	3.358	0.000	99	292765	25.0	24.3	
35 Carbon disulfide	76	3.416	3.416	0.000	99	384207	25.0	19.9	
37 3-Chloro-1-propene	41	3.499	3.499	0.000	90	314599	25.0	23.0	
38 Methyl acetate	43	3.525	3.525	0.000	99	534041	50.0	53.2	
39 Methylene Chloride	84	3.651	3.651	0.000	96	205829	25.0	24.9	
40 2-Methyl-2-propanol	59	3.744	3.744	0.000	99	296607	250.0	341.8	M
41 Methyl tert-butyl ether	73	3.808	3.808	0.000	97	588363	25.0	24.0	
42 trans-1,2-Dichloroethene	96	3.837	3.837	0.000	98	197827	25.0	24.2	
44 Acrylonitrile	53	3.879	3.879	0.000	99	1149567	250.0	244.0	
47 Hexane	57	3.995	3.995	0.000	95	301117	25.0	23.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.210	4.210	0.000	96	334840	25.0	23.5	
49 Vinyl acetate	43	4.226	4.226	0.000	97	983146	50.0	45.5	
56 2,2-Dichloropropane	77	4.683	4.683	0.000	87	127781	25.0	20.5	
58 cis-1,2-Dichloroethene	96	4.705	4.705	0.000	80	212323	25.0	23.9	
57 2-Butanone (MEK)	43	4.718	4.718	0.000	100	907479	125.0	144.9	M
60 Chlorobromomethane	128	4.927	4.927	0.000	96	106477	25.0	24.5	
61 Tetrahydrofuran	42	4.946	4.946	0.000	91	238223	50.0	52.2	
62 Chloroform	83	4.975	4.975	0.000	94	328204	25.0	23.2	
64 1,1,1-Trichloroethane	97	5.107	5.107	0.000	99	265121	25.0	25.0	
65 Cyclohexane	56	5.126	5.126	0.000	93	364641	25.0	23.9	
66 Carbon tetrachloride	117	5.239	5.239	0.000	89	222905	25.0	26.1	
67 1,1-Dichloropropene	75	5.239	5.239	0.000	93	263927	25.0	24.4	
69 Isobutyl alcohol	43	5.364	5.364	0.000	95	473834	625.0	785.4	
70 Benzene	78	5.432	5.432	0.000	98	755789	25.0	24.0	
72 1,2-Dichloroethane	62	5.487	5.487	0.000	97	271982	25.0	24.2	
73 n-Heptane	43	5.544	5.544	0.000	95	341507	25.0	23.4	
75 Trichloroethene	95	5.985	5.985	0.000	99	198562	25.0	24.7	
76 Methylcyclohexane	83	6.110	6.110	0.000	91	349641	25.0	24.4	
77 1,2-Dichloropropane	63	6.216	6.216	0.000	95	196762	25.0	24.8	
81 1,4-Dioxane	88	6.335	6.335	0.000	99	36868	500.0	476.1	
82 Dibromomethane	93	6.351	6.351	0.000	97	129221	25.0	26.2	
83 Dichlorobromomethane	83	6.477	6.477	0.000	98	228229	25.0	25.5	
84 2-Chloroethyl vinyl ether	63	6.708	6.708	0.000	92	159182	25.0	27.0	
85 cis-1,3-Dichloropropene	75	6.866	6.866	0.000	94	301373	25.0	25.0	
87 4-Methyl-2-pentanone (MIBK)	43	6.982	6.982	0.000	98	1728807	125.0	125.9	
88 Toluene	92	7.152	7.152	0.000	98	476137	25.0	24.1	
91 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	95	274756	25.0	25.2	
90 Ethyl methacrylate	69	7.409	7.409	0.000	91	289730	25.0	25.5	
93 1,1,2-Trichloroethane	83	7.596	7.596	0.000	92	153181	25.0	24.7	
94 Tetrachloroethene	166	7.673	7.673	0.000	96	193591	25.0	24.0	
95 1,3-Dichloropropane	76	7.760	7.760	0.000	95	314528	25.0	23.9	
96 2-Hexanone	43	7.789	7.789	0.000	98	1236209	125.0	129.1	
98 Chlorodibromomethane	129	7.998	7.998	0.000	89	167763	25.0	26.3	
101 Ethylene Dibromide	107	8.120	8.120	0.000	99	192355	25.0	24.8	
103 Chlorobenzene	112	8.576	8.576	0.000	96	520726	25.0	24.2	
104 Ethylbenzene	91	8.644	8.644	0.000	98	877073	25.0	23.9	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	95	174453	25.0	25.6	
106 m-Xylene & p-Xylene	106	8.760	8.760	0.000	99	344764	25.0	24.2	
107 o-Xylene	106	9.191	9.191	0.000	96	345547	25.0	24.1	
109 Styrene	104	9.220	9.220	0.000	95	544436	25.0	24.4	
110 Bromoform	173	9.490	9.490	0.000	96	110238	25.0	22.0	
111 Isopropylbenzene	105	9.564	9.564	0.000	96	883757	25.0	24.9	
113 Bromobenzene	156	9.959	9.959	0.000	95	210787	25.0	24.2	
112 1,1,2,2-Tetrachloroethane	83	9.972	9.972	0.000	94	285109	25.0	24.9	
114 N-Propylbenzene	91	10.007	10.007	0.000	99	1048943	25.0	24.6	
115 trans-1,4-Dichloro-2-butene	53	10.023	10.023	0.000	74	83592	25.0	22.3	
116 1,2,3-Trichloropropane	110	10.027	10.027	0.000	88	96216	25.0	25.6	
117 2-Chlorotoluene	126	10.136	10.136	0.000	97	205708	25.0	24.6	
118 1,3,5-Trimethylbenzene	105	10.184	10.184	0.000	94	740471	25.0	25.0	
119 4-Chlorotoluene	91	10.248	10.248	0.000	98	625113	25.0	24.6	
120 tert-Butylbenzene	134	10.519	10.519	0.000	93	164539	25.0	24.8	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	98	763592	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	943168	25.0	24.4	
123 4-Isopropyltoluene	119	10.863	10.863	0.000	97	803502	25.0	24.6	
124 1,3-Dichlorobenzene	146	10.888	10.888	0.000	98	401900	25.0	23.8	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	94	413819	25.0	24.0	
127 n-Butylbenzene	91	11.248	11.248	0.000	98	737455	25.0	24.2	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	401826	25.0	23.7	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.030	0.000	95	62852	25.0	27.5	
130 1,2,4-Trichlorobenzene	180	12.657	12.657	0.000	94	290878	25.0	23.1	
131 Hexachlorobutadiene	225	12.744	12.744	0.000	97	108827	25.0	22.5	
132 Naphthalene	128	12.869	12.869	0.000	97	1046352	25.0	25.2	
133 1,2,3-Trichlorobenzene	180	13.065	13.065	0.000	95	278937	25.0	23.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

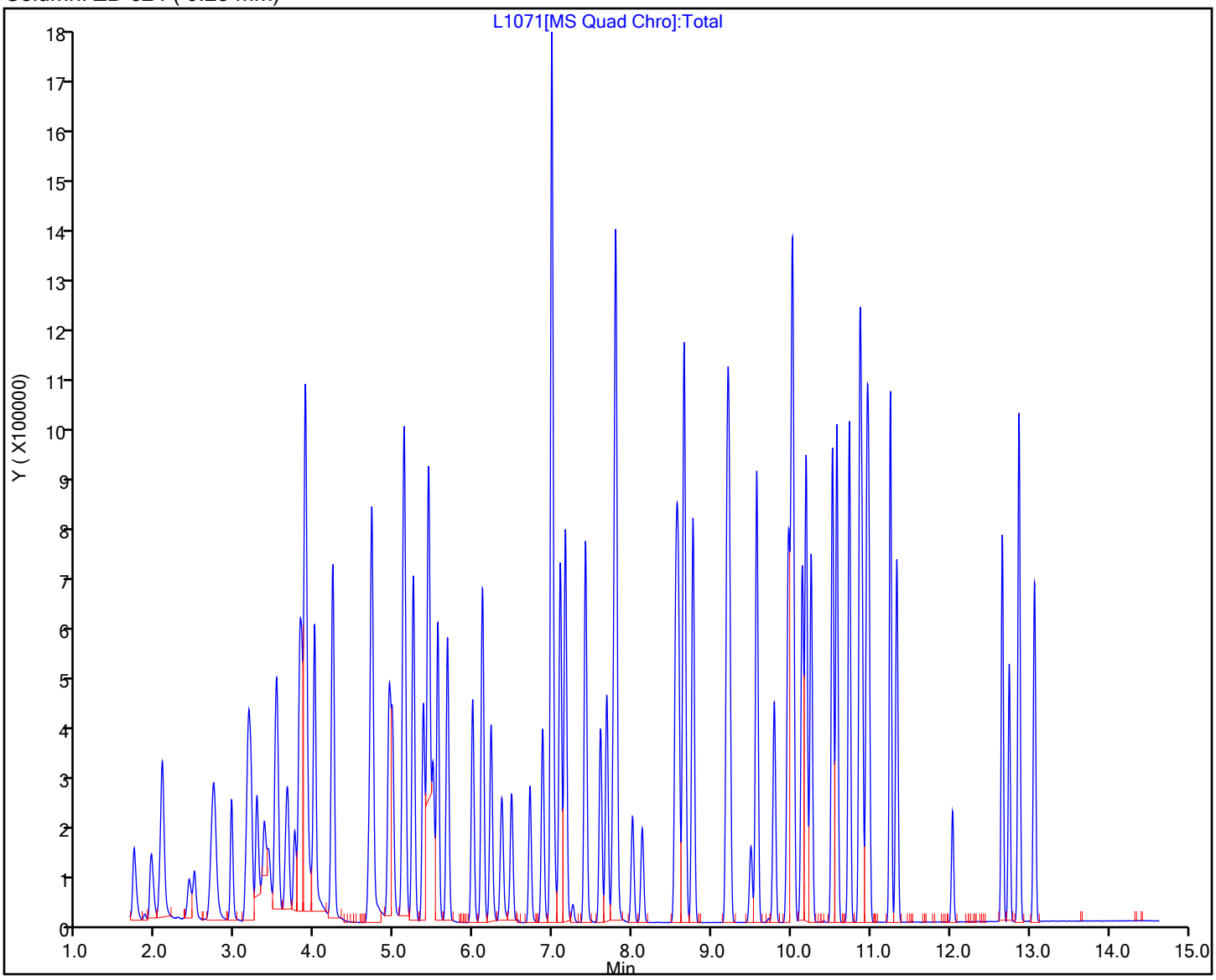
Reagents:

8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
GAS CORP mix_00588	Amount Added: 12.50	Units: uL	
L_8260_SURR_00048	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 29-Sep-2023 09:26:53 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1071.D
Injection Date: 29-Sep-2023 00:25:29 Instrument ID: HP5977L
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Manual Integration/User Assign Peak Report

Eurofins Buffalo

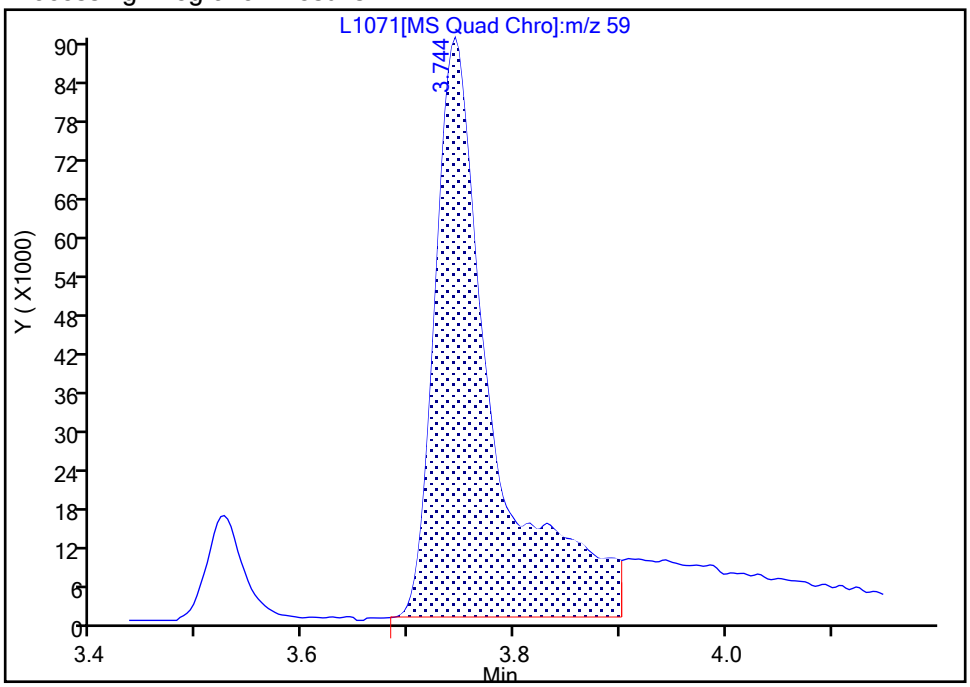
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1071.D
Injection Date: 29-Sep-2023 00:25:29 Instrument ID: HP5977L
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

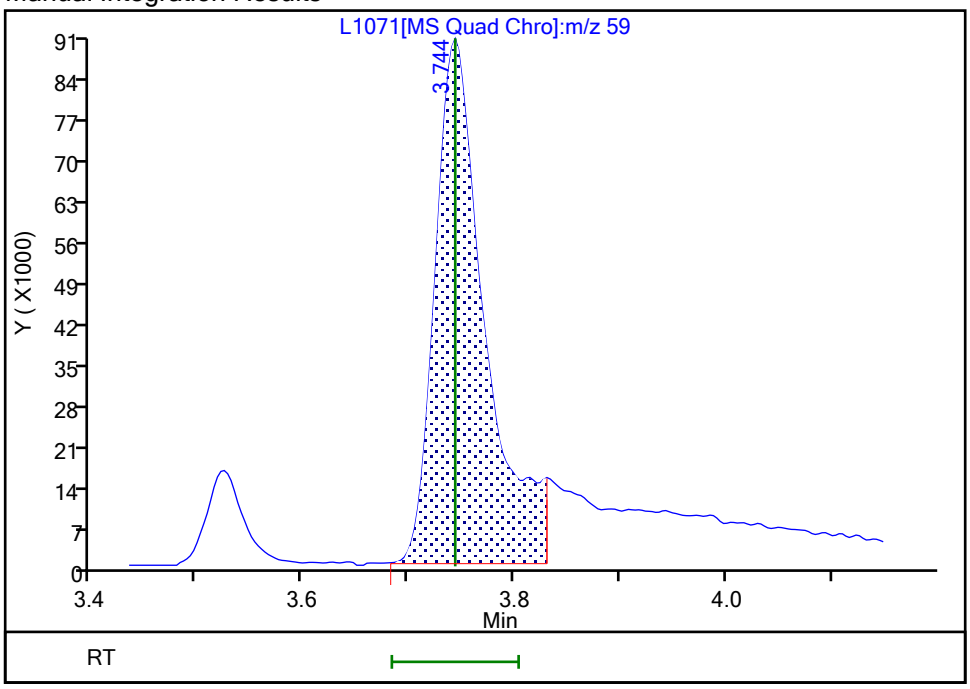
Processing Integration Results

RT: 3.74
Area: 341582
Amount: 393.6257
Amount Units: ug/L



Manual Integration Results

RT: 3.74
Area: 296607
Amount: 341.7983
Amount Units: ug/L



Reviewer: R3QB, 29-Sep-2023 09:25:59 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

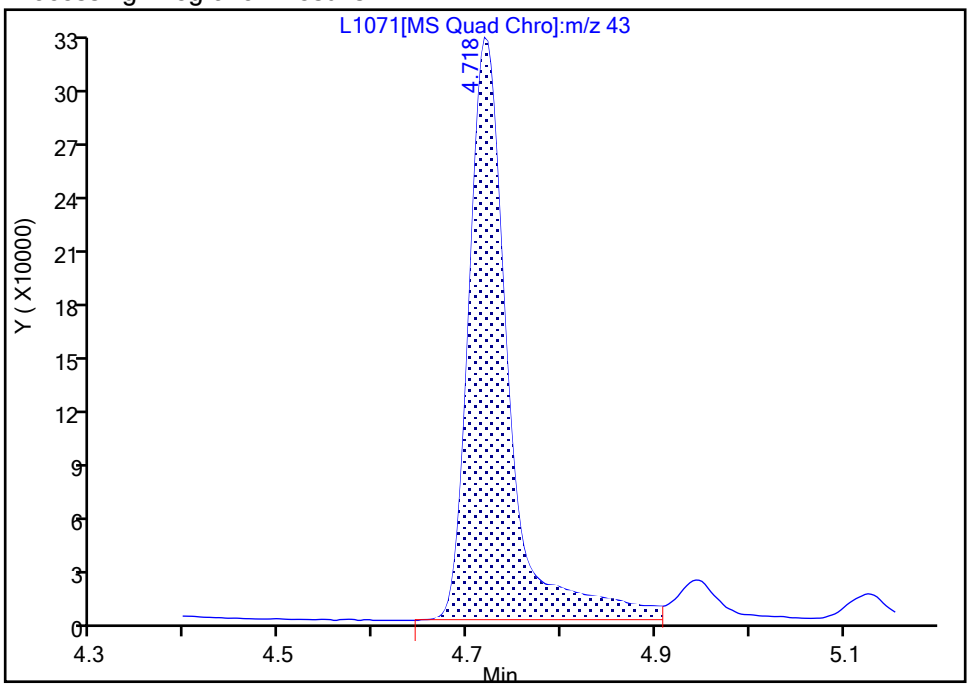
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1071.D
Injection Date: 29-Sep-2023 00:25:29 Instrument ID: HP5977L
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

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

Signal: 1

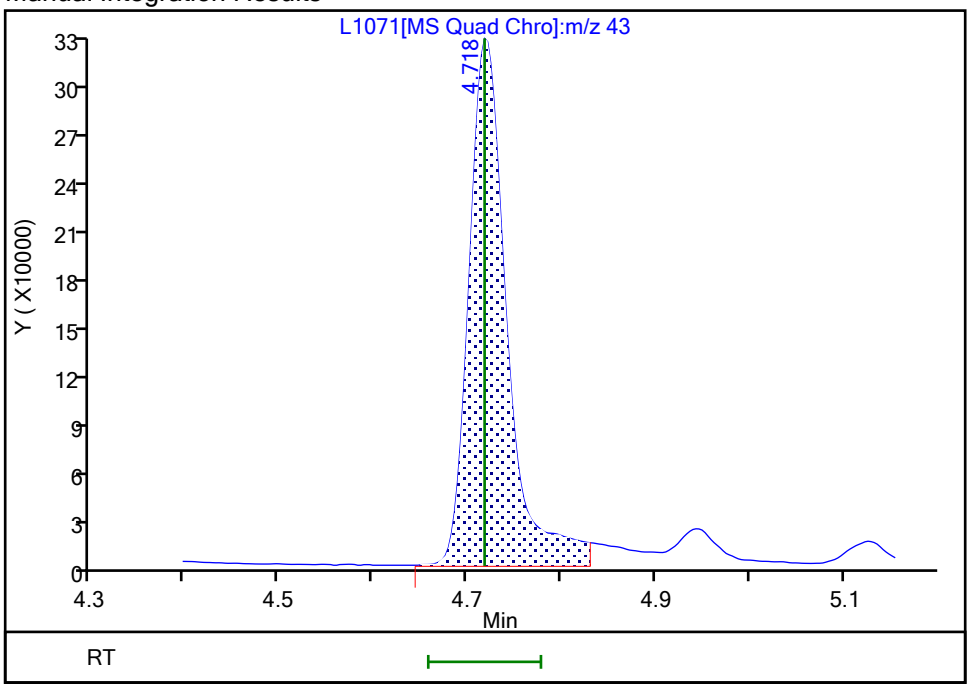
Processing Integration Results

RT: 4.72
Area: 954371
Amount: 152.3777
Amount Units: ug/L



Manual Integration Results

RT: 4.72
Area: 907479
Amount: 144.8908
Amount Units: ug/L



Reviewer: R3QB, 29-Sep-2023 09:26:24 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3479.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-Sep-2023 14:54:30 ALS Bottle#: 40 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0113624-011
Operator ID: LH Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 08-Sep-2023 12:49:56 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: WLL8 Date: 07-Sep-2023 15:04:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	4.037	4.037	0.000	0	133442	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

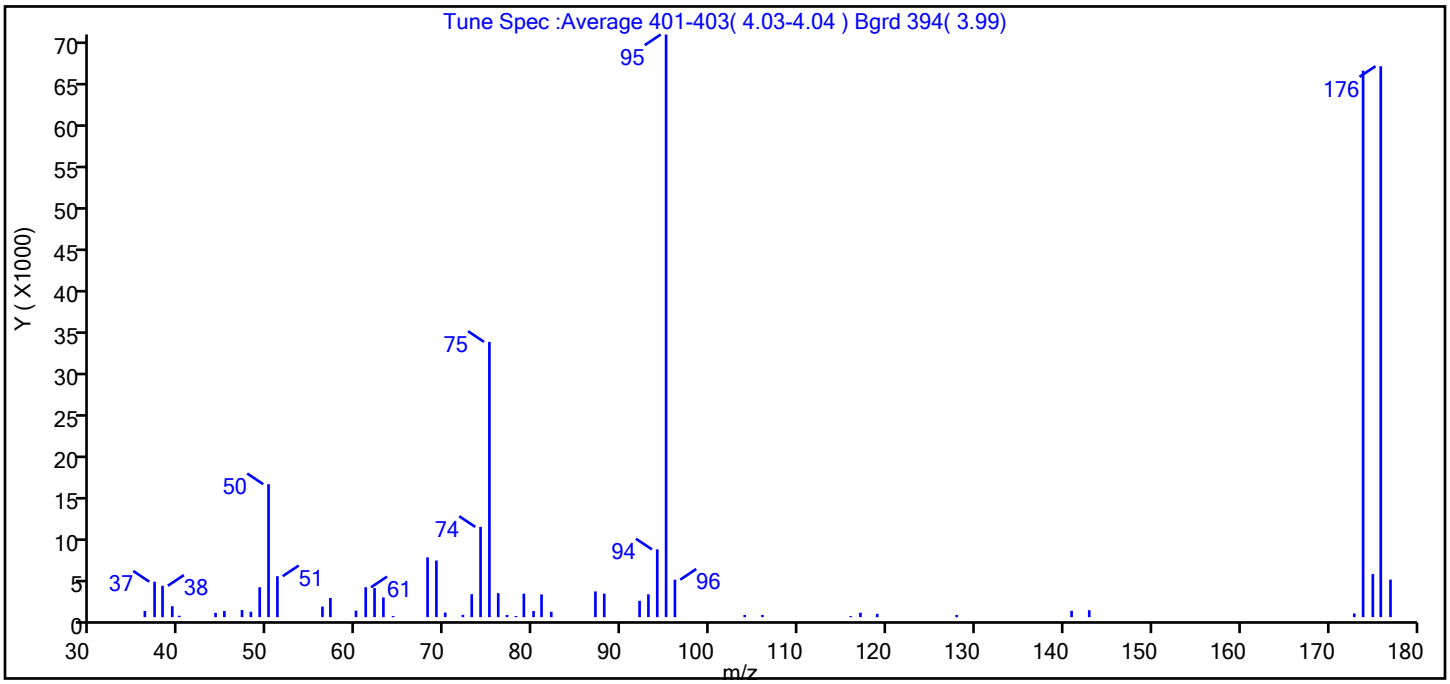
BFB_WRK_00149 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3479.d
Injection Date: 07-Sep-2023 14:54:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 40 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.8
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	93.8
175	5 to 9% of m/z 174	7.4 (7.9)
176	Greater than 95% but less than 101% of m/z 174	94.6 (100.8)
177	5 to 9% of m/z 176	6.4 (6.8)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3479.d\D-8260.rslt\spectra.d
Injection Date: 07-Sep-2023 14:54:30
Spectrum: Tune Spec :Average 401-403(4.03-4.04) Bgrd 394(3.99)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	749	60.00	783	78.00	143	116.00	130
37.00	4280	61.00	3606	79.00	2832	117.00	534
38.00	3786	62.00	3510	80.00	739	119.00	397
39.00	1319	63.00	2384	81.00	2749	128.00	264
40.00	170	64.00	141	82.00	650	141.00	765
44.00	522	68.00	7217	87.00	3103	143.00	834
45.00	742	69.00	6835	88.00	2837	173.00	442
47.00	862	70.00	550	92.00	1970	174.00	65952
48.00	659	72.00	276	93.00	2751	175.00	5199
49.00	3604	73.00	2769	94.00	8175	176.00	66488
50.00	16046	74.00	10891	95.00	70320	177.00	4529
51.00	4941	75.00	33216	96.00	4523		
56.00	1285	76.00	2895	104.00	266		
57.00	2315	77.00	264	106.00	257		

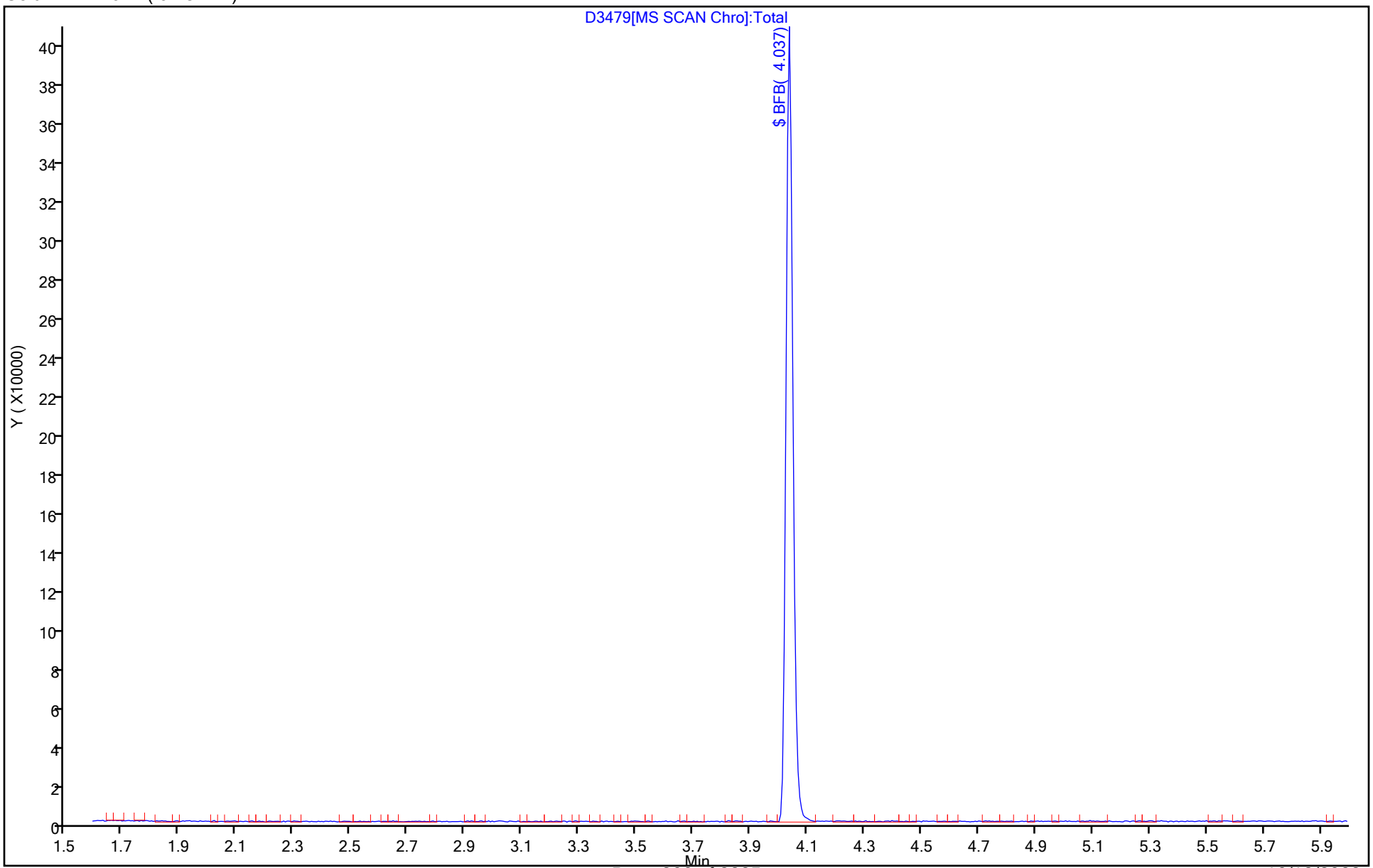
Report Date: 08-Sep-2023 12:49:56 Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3479.d

Injection Date:	07-Sep-2023 14:54:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	BFB			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4235.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Sep-2023 21:15:30 ALS Bottle#: 31 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0113980-003
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:43:12 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:43:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	4.031	4.031	0.000	0	329532	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

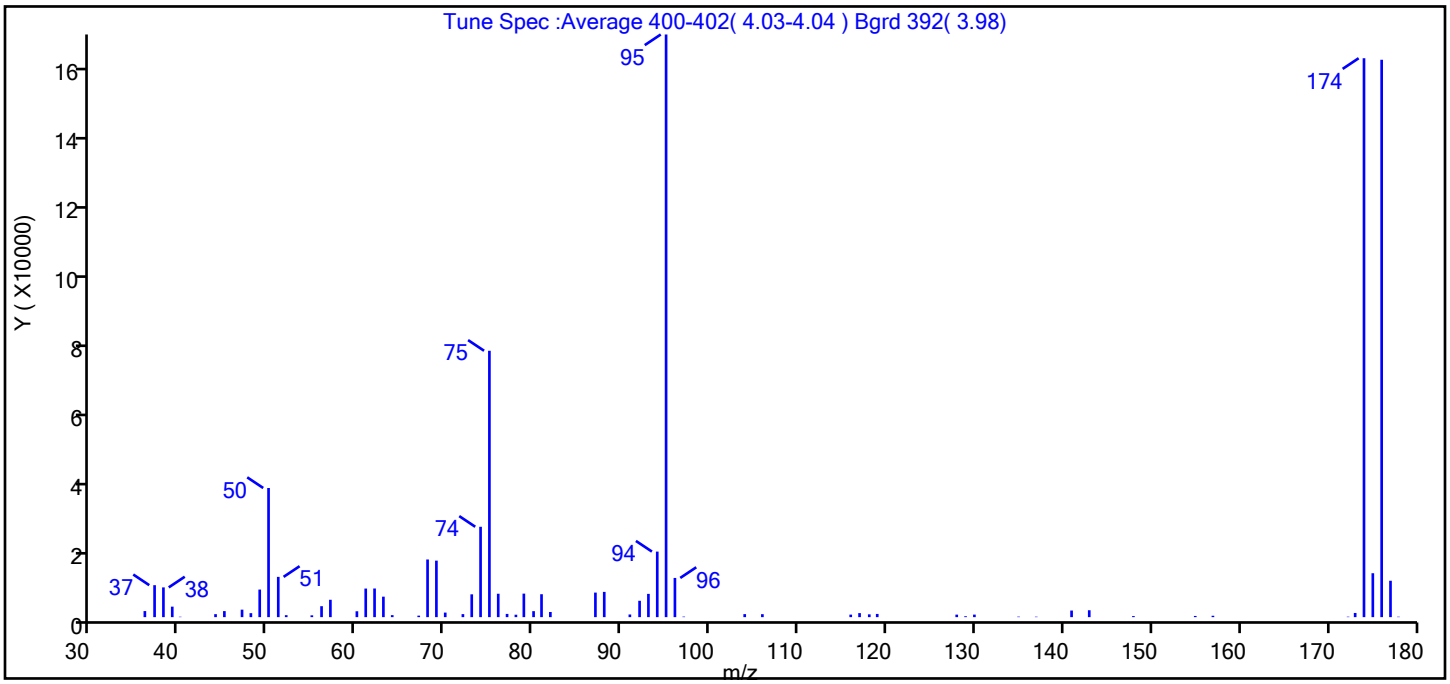
BFB_WRK_00149 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4235.d
Injection Date: 26-Sep-2023 21:15:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: ZN ALS Bottle#: 31 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.2
75	30 to 60% of m/z 95	45.7
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.7 (0.7)
174	50 to 120% of m/z 95	95.9
175	5 to 9% of m/z 174	7.5 (7.9)
176	Greater than 95% but less than 101% of m/z 174	95.7 (99.7)
177	5 to 9% of m/z 176	6.2 (6.5)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4235.d\D-8260.rslt\spectra.d
Injection Date: 26-Sep-2023 21:15:30
Spectrum: Tune Spec :Average 400-402(4.03-4.04) Bgrd 392(3.98)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1767	61.00	8322	81.00	6675	128.00	732
37.00	9305	62.00	8341	82.00	1502	129.00	261
38.00	8660	63.00	5962	87.00	7147	130.00	741
39.00	3057	64.00	582	88.00	7352	135.00	147
40.00	114	67.00	434	91.00	776	137.00	131
44.00	872	68.00	16784	92.00	4766	141.00	1922
45.00	1760	69.00	16448	93.00	6776	143.00	2009
47.00	2178	70.00	1326	94.00	19080	148.00	305
48.00	1160	72.00	881	95.00	169600	155.00	345
49.00	8028	73.00	6644	96.00	11412	157.00	402
50.00	37592	74.00	26304	97.00	151	172.00	133
51.00	11723	75.00	77536	104.00	882	173.00	1216
52.00	572	76.00	6815	106.00	863	174.00	162688
55.00	528	77.00	941	116.00	736	175.00	12782
56.00	3189	78.00	708	117.00	1175	176.00	162240
57.00	5057	79.00	6846	118.00	816	177.00	10593
60.00	1714	80.00	1746	119.00	935	178.00	123

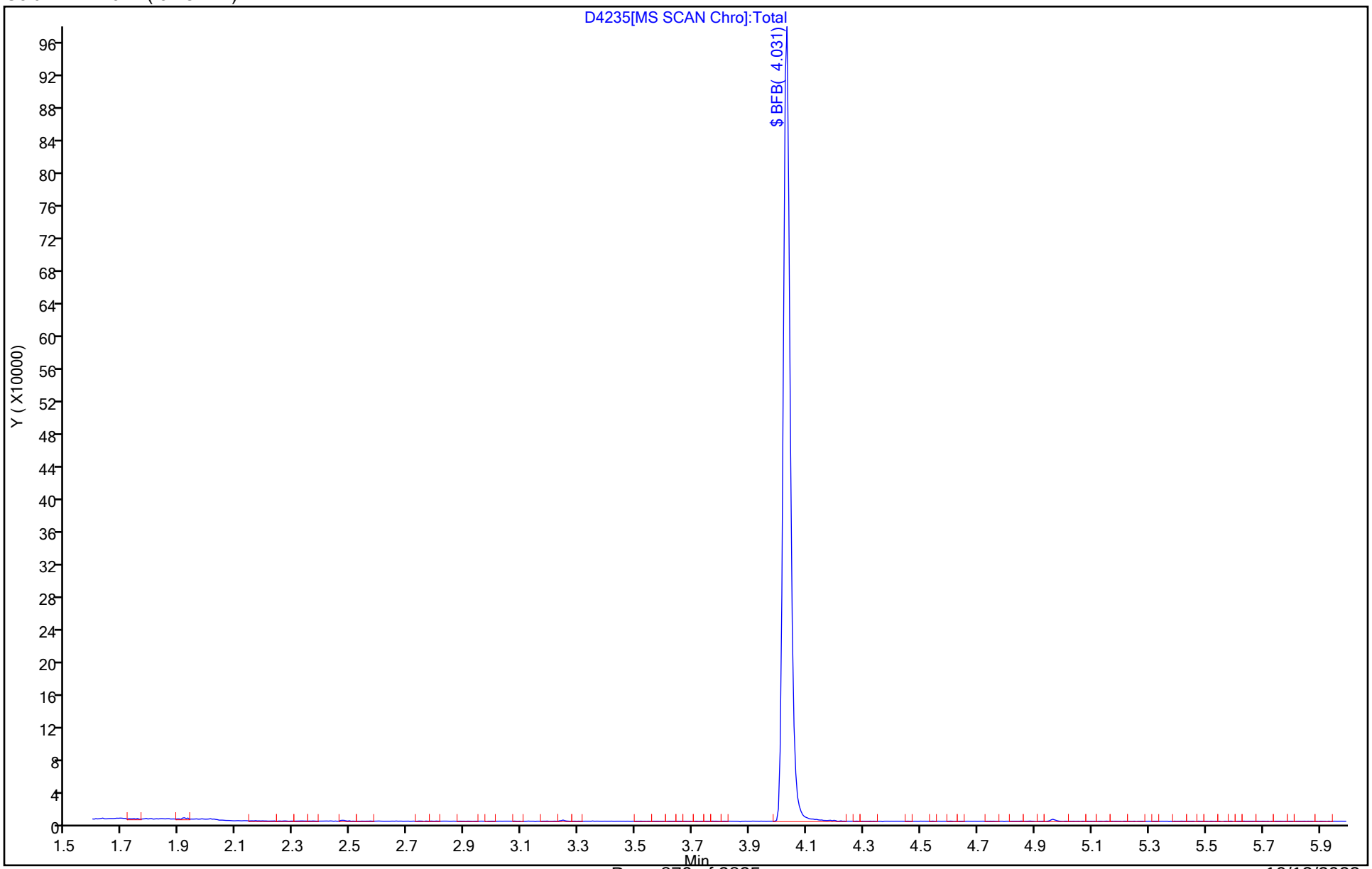
Report Date: 27-Sep-2023 07:43:13 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4235.d

Injection Date:	26-Sep-2023 21:15:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4254.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 27-Sep-2023 09:20:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0113984-003
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 07:42:14 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1616

First Level Reviewer: QR3Z Date: 28-Sep-2023 07:42:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	4.025	4.025	0.000	0	71622	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

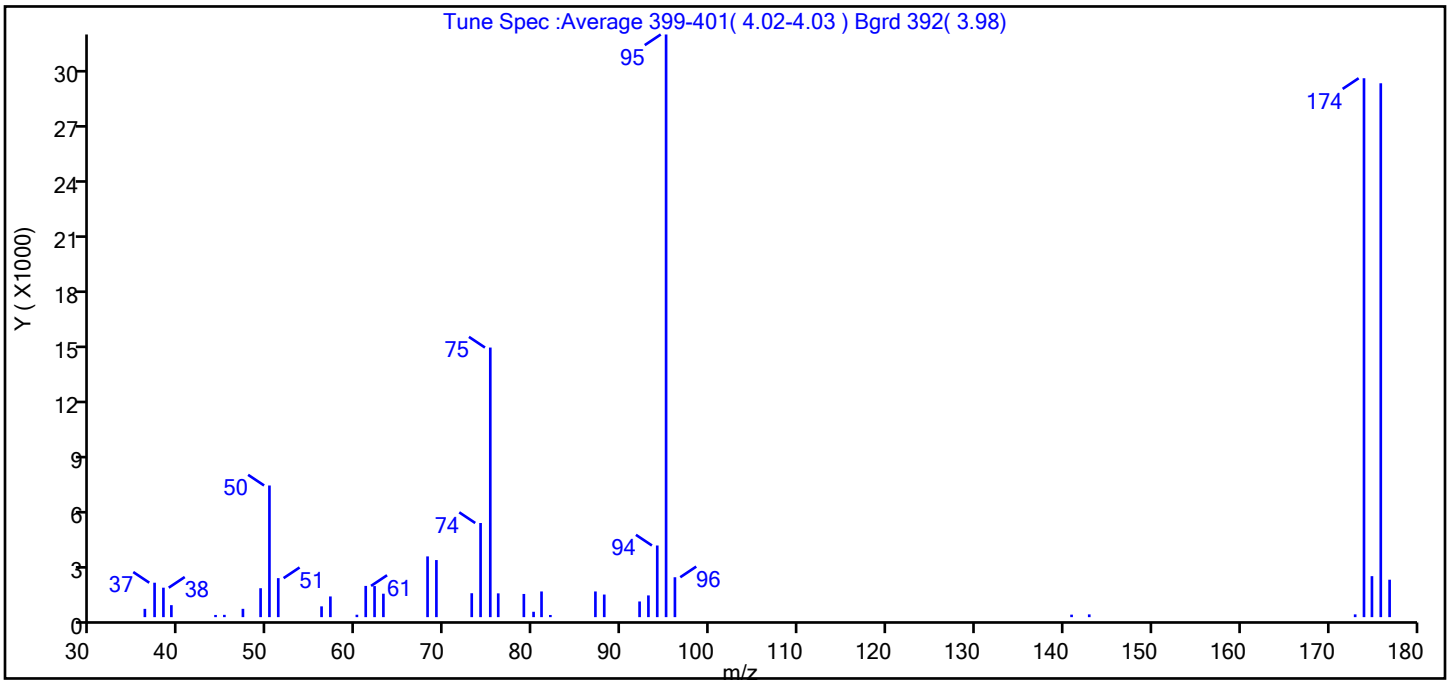
BFB_WRK_00149 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4254.d
Injection Date: 27-Sep-2023 09:20:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: ZN ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.6
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.5 (0.5)
174	50 to 120% of m/z 95	92.5
175	5 to 9% of m/z 174	7.0 (7.6)
176	Greater than 95% but less than 101% of m/z 174	91.6 (99.1)
177	5 to 9% of m/z 176	6.4 (7.0)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4254.d\D-8260.rslt\spectra.d
Injection Date: 27-Sep-2023 09:20:30
Spectrum: Tune Spec :Average 399-401(4.02-4.03) Bgrd 392(3.98)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 40

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	448	56.00	584	75.00	14588	94.00	3877
37.00	1863	57.00	1120	76.00	1287	95.00	31528
38.00	1594	60.00	131	79.00	1255	96.00	2159
39.00	649	61.00	1690	80.00	291	141.00	135
44.00	119	62.00	1682	81.00	1390	143.00	149
45.00	125	63.00	1269	82.00	117	173.00	150
47.00	450	68.00	3287	87.00	1390	174.00	29160
49.00	1565	69.00	3089	88.00	1223	175.00	2218
50.00	7124	73.00	1294	92.00	848	176.00	28888
51.00	2111	74.00	5094	93.00	1176	177.00	2026

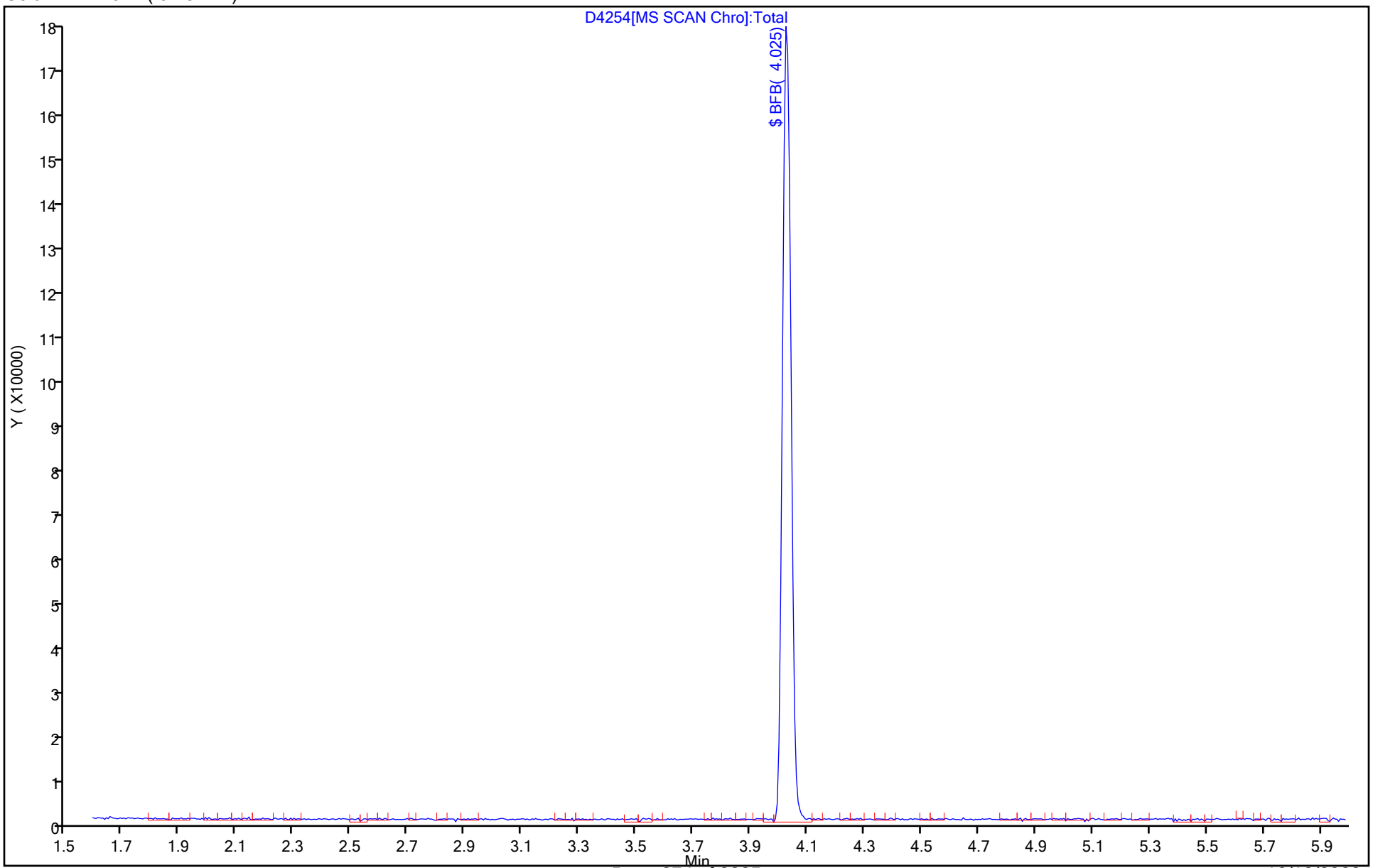
Report Date: 28-Sep-2023 07:42:15 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4254.d

Injection Date:	27-Sep-2023 09:20:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4453.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Oct-2023 15:40:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0114077-003
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 15:49:02 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 15:49:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.983	3.983	0.000	0	78300	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

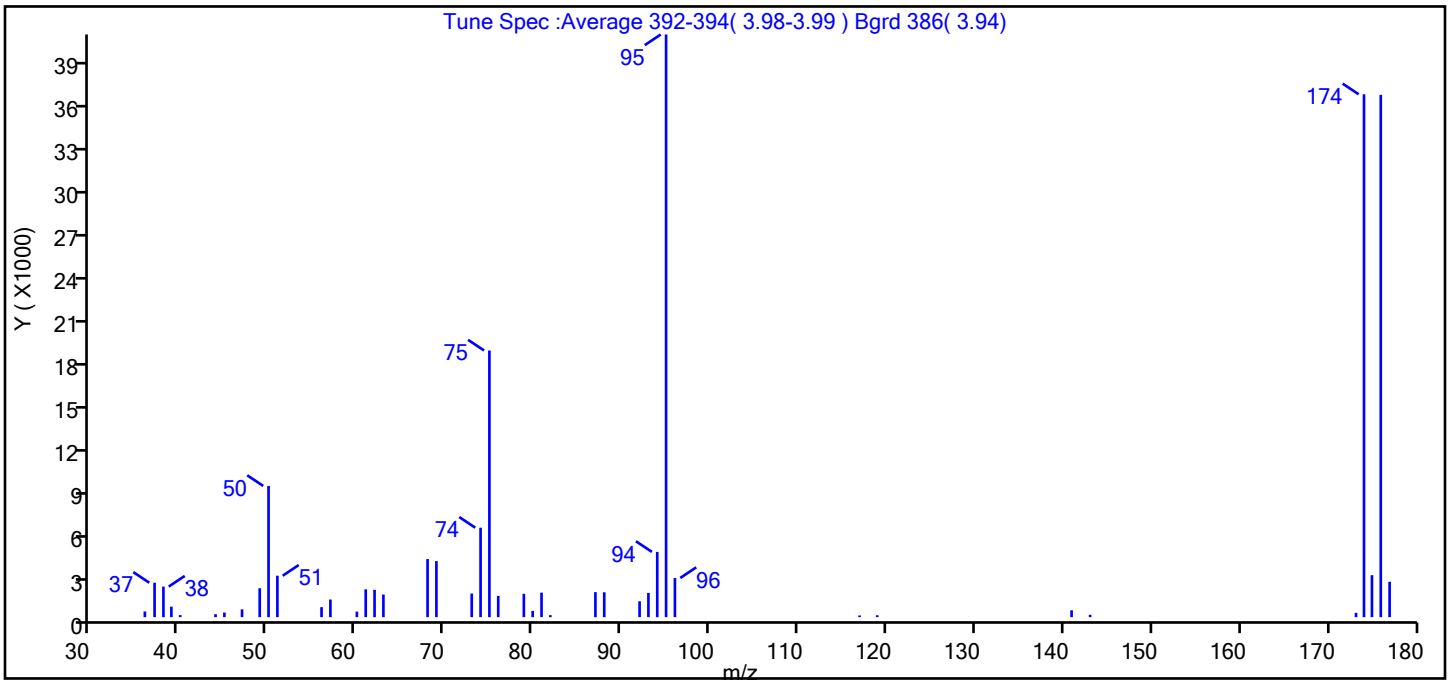
BFB_WRK_00150 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4453.d
Injection Date: 02-Oct-2023 15:40:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: AK ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.5
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	89.7
175	5 to 9% of m/z 174	7.2 (8.0)
176	Greater than 95% but less than 101% of m/z 174	89.6 (99.9)
177	5 to 9% of m/z 176	6.1 (6.8)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4453.d\D-8260.rslt\spectra.d
Injection Date: 02-Oct-2023 15:40:30
Spectrum: Tune Spec :Average 392-394(3.98-3.99) Bgrd 386(3.94)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	395	56.00	691	76.00	1469	96.00	2708
37.00	2380	57.00	1219	79.00	1612	117.00	116
38.00	2113	60.00	382	80.00	431	119.00	129
39.00	725	61.00	1924	81.00	1694	141.00	474
40.00	142	62.00	1892	82.00	136	143.00	165
44.00	204	63.00	1565	87.00	1732	173.00	298
45.00	316	68.00	4019	88.00	1721	174.00	36160
47.00	541	69.00	3876	92.00	1095	175.00	2901
49.00	2000	73.00	1634	93.00	1675	176.00	36120
50.00	9073	74.00	6187	94.00	4511	177.00	2447
51.00	2866	75.00	18440	95.00	40296		

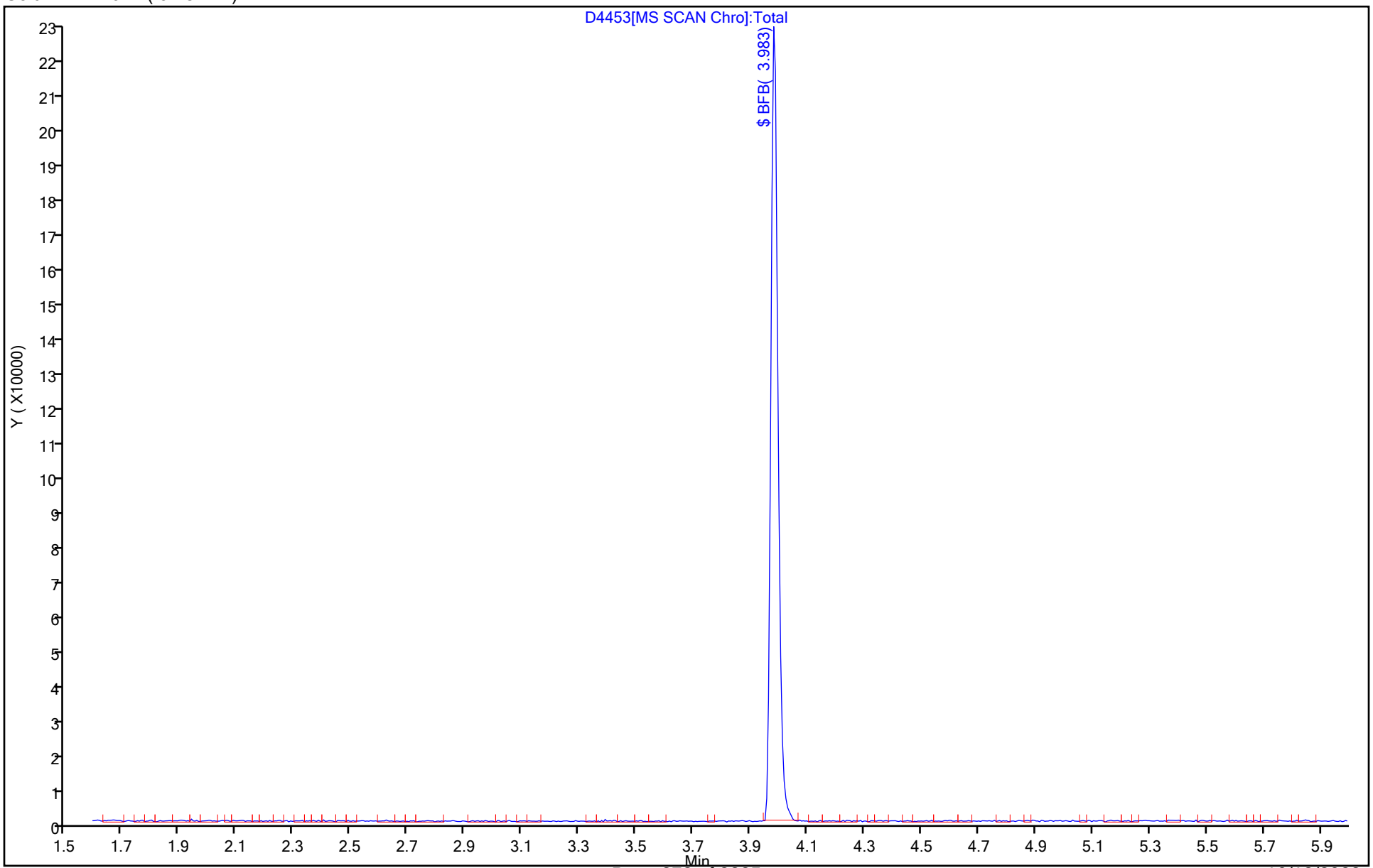
Report Date: 02-Oct-2023 15:49:03 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4453.d

Injection Date:	02-Oct-2023 15:40:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0971.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 25-Sep-2023 14:07:20 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0113942-012
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Sep-2023 11:45:33 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: WLL8 Date: 25-Sep-2023 14:17:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	5.312	5.312	0.000	0	63363	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

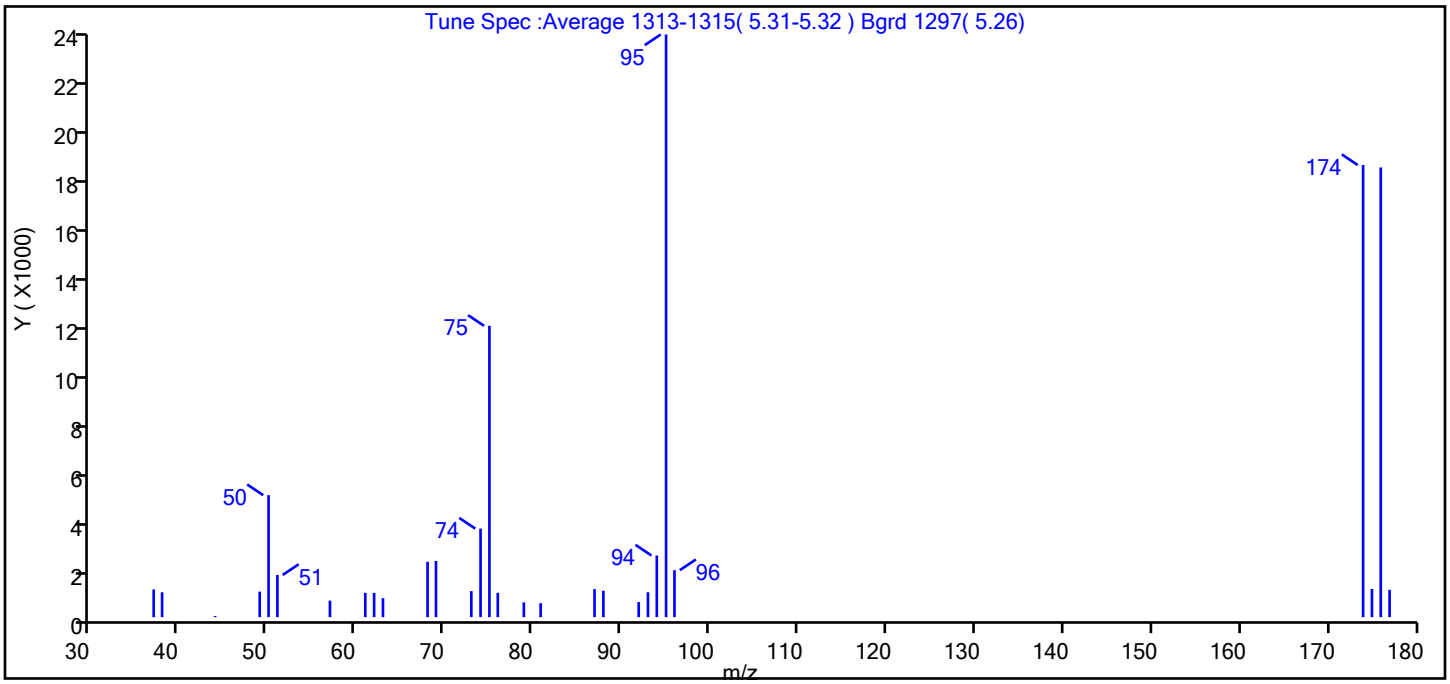
BFB_WRK_00150 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0971.D
Injection Date: 25-Sep-2023 14:07:20 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.9
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	8.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	77.6
175	5 to 9% of m/z 174	4.8 (6.2)
176	Greater than 95% but less than 101% of m/z 174	77.2 (99.5)
177	5 to 9% of m/z 176	4.7 (6.1)

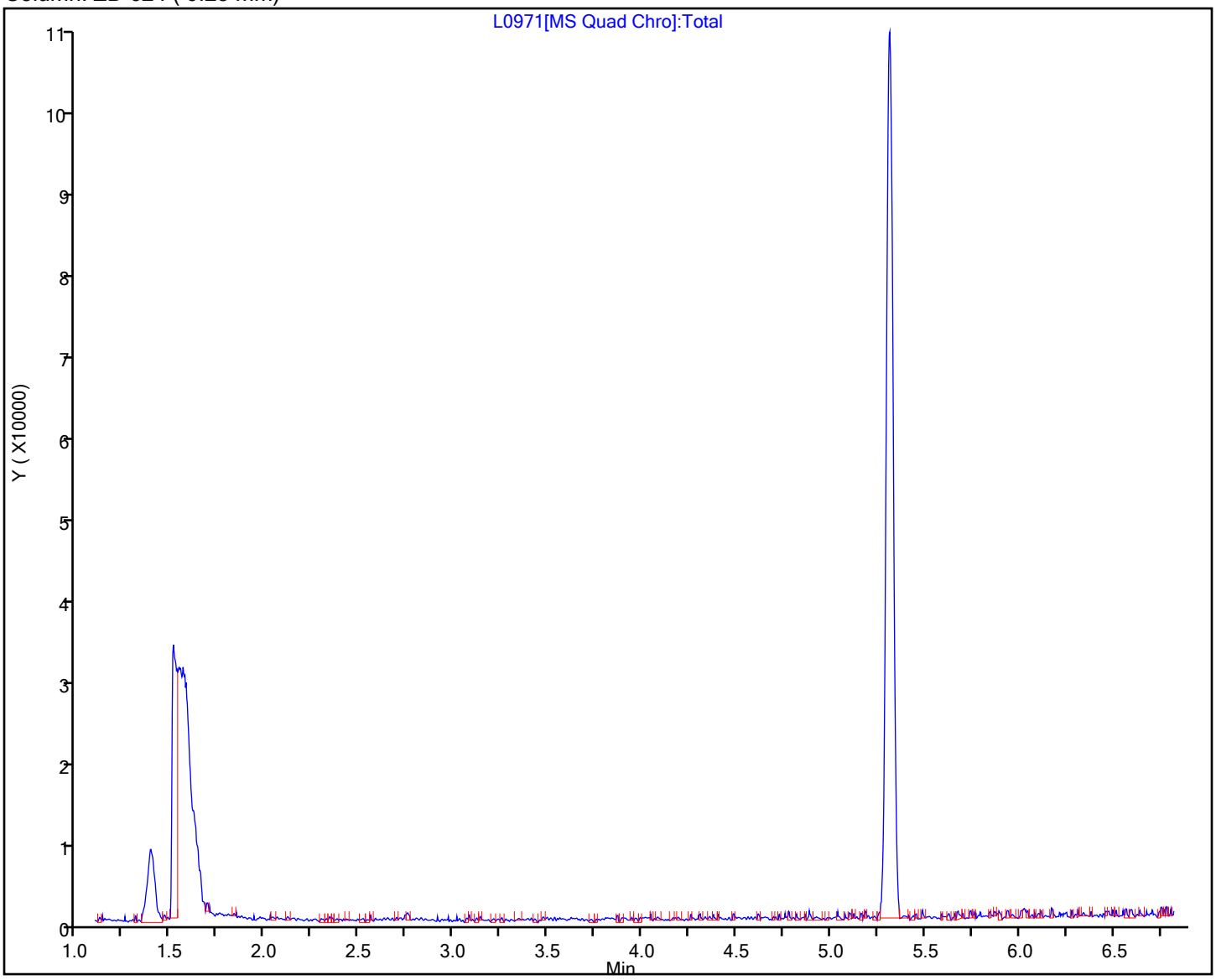
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0971.D\L-8260.rslt\spectra.d
Injection Date: 25-Sep-2023 14:07:20
Spectrum: Tune Spec :Average 1313-1315(5.31-5.32) Bgrd 1297(5.26)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 29

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1108	62.00	969	79.00	592	96.00	1879
38.00	995	63.00	759	81.00	557	174.00	18088
44.00	46	68.00	2214	87.00	1121	175.00	1126
49.00	1022	69.00	2247	88.00	1056	176.00	17992
50.00	4880	73.00	1042	92.00	603	177.00	1093
51.00	1689	74.00	3543	93.00	996		
57.00	662	75.00	11655	94.00	2466		
61.00	973	76.00	974	95.00	23312		

Report Date: 26-Sep-2023 11:45:33 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0971.D
Injection Date: 25-Sep-2023 14:07:20 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1008.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	27-Sep-2023 11:43:48	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0113994-003				
Operator ID:	LH	Instrument ID:	HP5977L		
Method:	\\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	27-Sep-2023 11:54:00	Calib Date:	25-Sep-2023 22:18:27		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS Quad		
Process Host:	CTX1652				
First Level Reviewer: WLL8		Date:	27-Sep-2023 11:54:00		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	5.312	5.312	0.000	0	70140	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

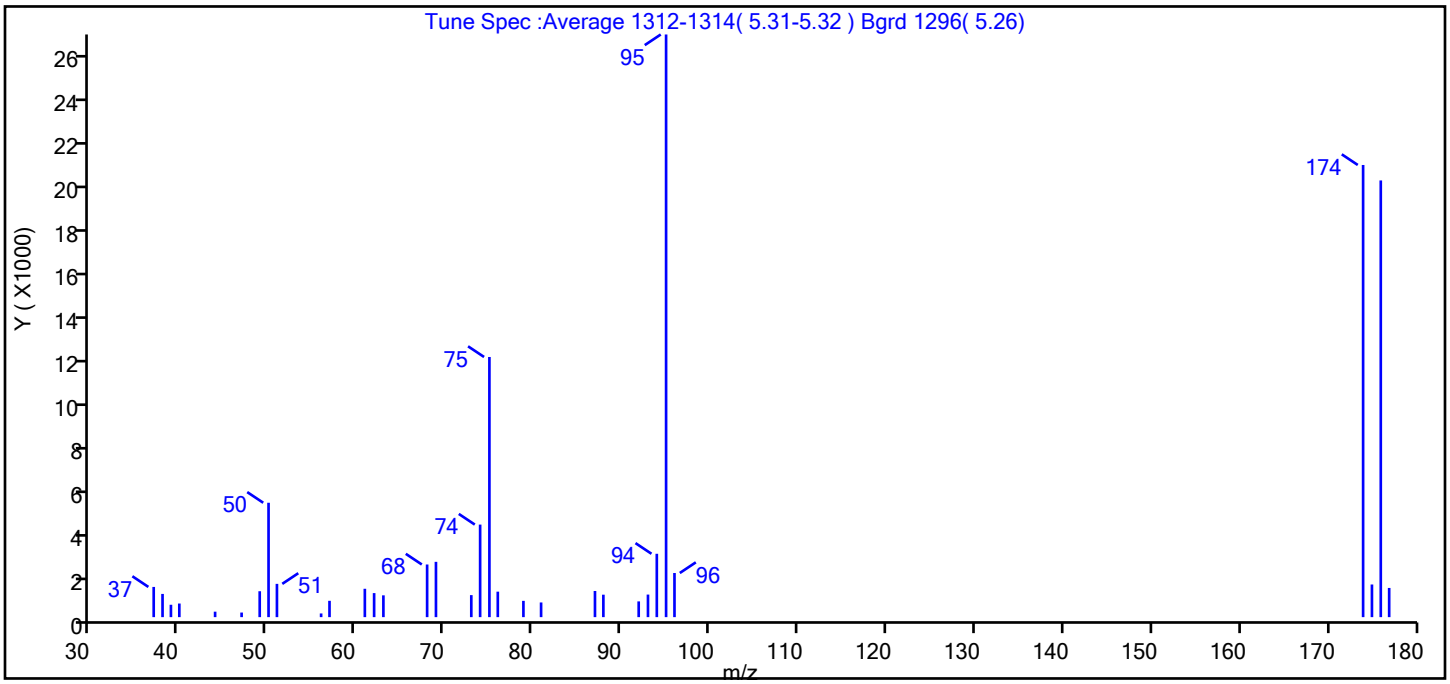
BFB_WRK_00150 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1008.D
Injection Date: 27-Sep-2023 11:43:48 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.6
75	30 to 60% of m/z 95	44.7
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	77.6
175	5 to 9% of m/z 174	5.6 (7.2)
176	Greater than 95% but less than 101% of m/z 174	74.9 (96.6)
177	5 to 9% of m/z 176	5.0 (6.7)

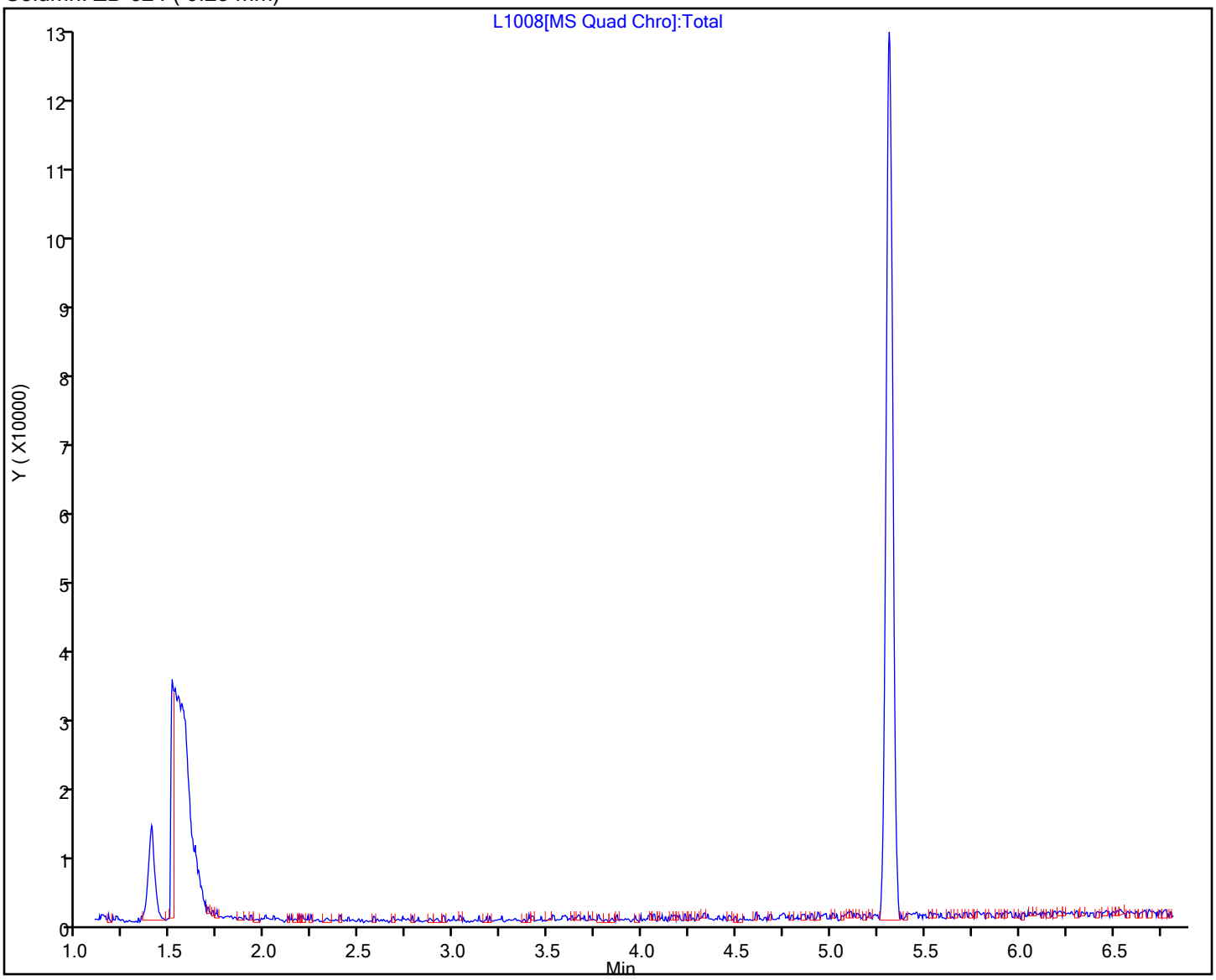
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1008.D\L-8260.rslt\spectra.d
Injection Date: 27-Sep-2023 11:43:48
Spectrum: Tune Spec :Average 1312-1314(5.31-5.32) Bgrd 1296(5.26)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1391	56.00	170	75.00	11977	95.00	26824
38.00	1069	57.00	752	76.00	1173	96.00	2032
39.00	570	61.00	1306	79.00	750	174.00	20816
40.00	627	62.00	1107	81.00	676	175.00	1503
44.00	252	63.00	1004	87.00	1204	176.00	20104
47.00	212	68.00	2424	88.00	1034	177.00	1344
49.00	1193	69.00	2546	92.00	725		
50.00	5266	73.00	1014	93.00	1039		
51.00	1532	74.00	4261	94.00	2917		

Report Date: 27-Sep-2023 11:54:00 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1008.D
Injection Date: 27-Sep-2023 11:43:48 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1070.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Sep-2023 00:01:21 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0114025-003
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:25:37 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:25:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	5.312	5.312	0.000	0	352040	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

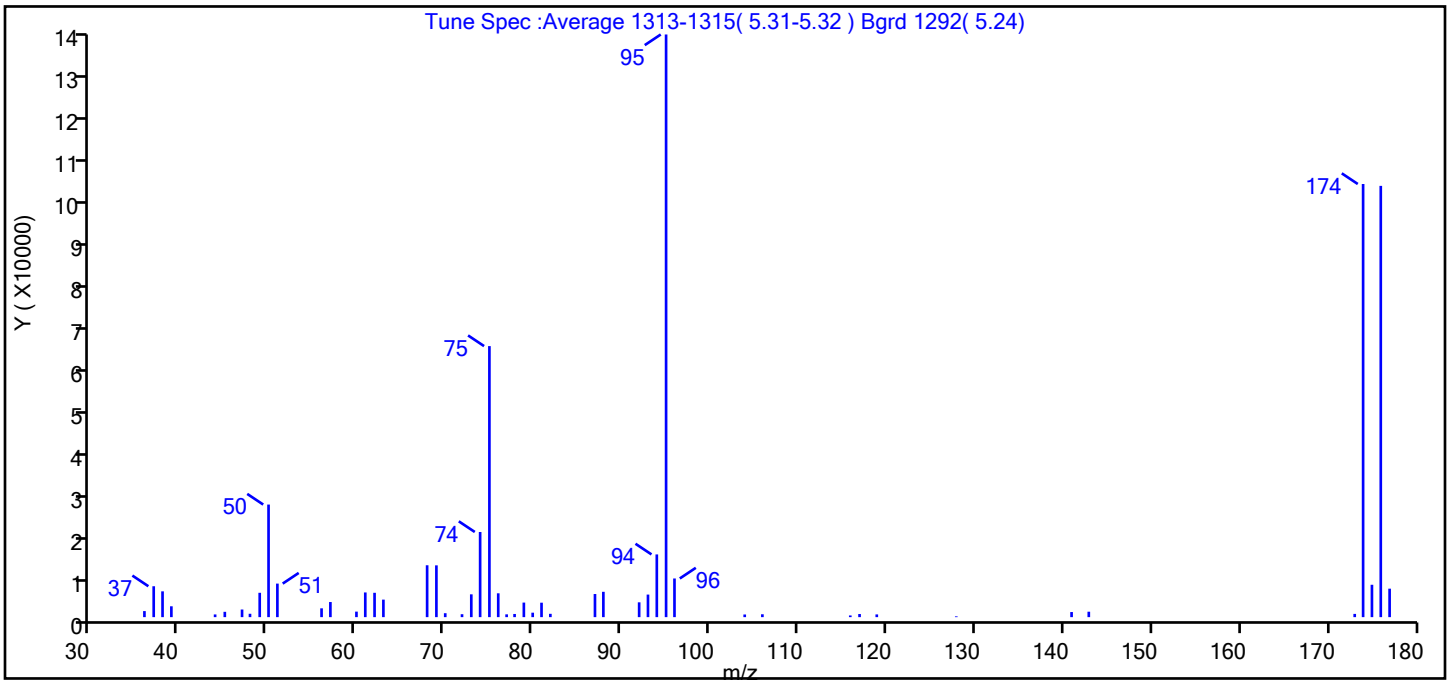
BFB_WRK_00150 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1070.D
Injection Date: 29-Sep-2023 00:01:21 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.3
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	74.3
175	5 to 9% of m/z 174	5.6 (7.5)
176	Greater than 95% but less than 101% of m/z 174	74.0 (99.6)
177	5 to 9% of m/z 176	4.9 (6.6)

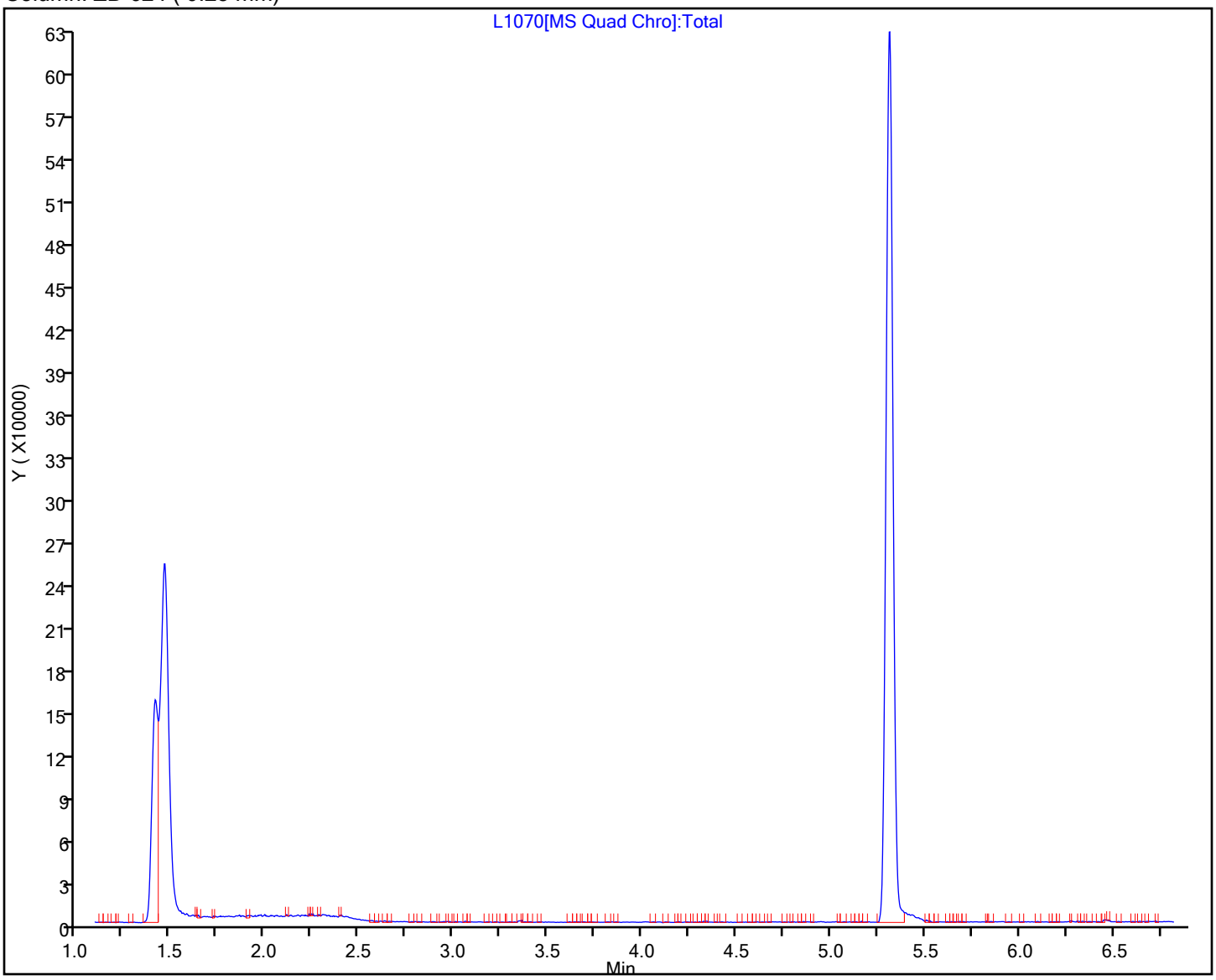
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1070.D\L-8260.rslt\spectra.d
Injection Date: 29-Sep-2023 00:01:21
Spectrum: Tune Spec :Average 1313-1315(5.31-5.32) Bgrd 1292(5.24)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1404	60.00	1282	78.00	735	106.00	669
37.00	7165	61.00	5726	79.00	3376	116.00	391
38.00	5982	62.00	5646	80.00	1035	117.00	723
39.00	2518	63.00	4064	81.00	3352	119.00	634
44.00	629	68.00	12030	82.00	771	128.00	180
45.00	1235	69.00	12009	87.00	5362	141.00	1183
47.00	1769	70.00	913	88.00	5876	143.00	1259
48.00	783	72.00	683	92.00	3436	173.00	752
49.00	5646	73.00	5289	93.00	5232	174.00	100432
50.00	26104	74.00	19744	94.00	14543	175.00	7506
51.00	7778	75.00	62848	95.00	135104	176.00	100000
56.00	2044	76.00	5528	96.00	8965	177.00	6601
57.00	3504	77.00	650	104.00	616		

Report Date: 29-Sep-2023 09:25:37 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1070.D
Injection Date: 29-Sep-2023 00:01:21 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685071/9

Matrix: Water | Lab File ID: D4240.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/26/2023 23:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685071/9

Matrix: Water | Lab File ID: D4240.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/26/2023 23:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4240.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-Sep-2023 23:04:30 ALS Bottle#: 36 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0113980-009
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:46:05 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:46:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	98	98130	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	208426	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.138	9.138	0.000	95	228687	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.383	4.383	0.000	92	170842	25.0	23.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.639	4.639	0.000	100	89978	25.0	23.5	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	456965	25.0	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.181	8.181	0.000	95	164703	25.0	25.5	
10 Dichlorodifluoromethane	85		1.170					ND	
11 Chlorodifluoromethane	51		1.207					ND	
12 Chloromethane	50		1.335					ND	
13 Vinyl chloride	62		1.420					ND	
144 Butadiene	54		1.433					ND	
14 Bromomethane	94		1.713					ND	
15 Chloroethane	64		1.780					ND	
16 Dichlorofluoromethane	67		1.993					ND	
17 Trichlorofluoromethane	101		2.000					ND	
18 Ethyl ether	59		2.256					ND	
141 Ethanol	45		2.286					ND	
19 Propene oxide	58		2.353					ND	
20 Acrolein	56		2.420					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.457					ND	
22 1,1-Dichloroethene	96		2.463					ND	
23 Acetone	43		2.567					ND	
25 Iodomethane	142		2.609					ND	
26 Carbon disulfide	76		2.646					ND	
24 Isopropyl alcohol	45		2.762					ND	
28 3-Chloro-1-propene	41		2.798					ND	
27 Methyl acetate	43		2.847					ND	
29 Acetonitrile	40		2.871					ND	
30 Methylene Chloride	84		2.932					ND	
31 2-Methyl-2-propanol	59		3.091					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.127					ND	
34 trans-1,2-Dichloroethene	96		3.140					ND	
33 Acrylonitrile	53		3.182					ND	
35 Hexane	57		3.316					ND	
39 1,1-Dichloroethane	63		3.511					ND	
36 Isopropyl ether	45		3.548					ND	
37 Vinyl acetate	43		3.560					ND	
132 Halothane	117		3.566					ND	
40 2-Chloro-1,3-butadiene	53		3.585					ND	
38 1,1-Dimethoxyethane	75		3.609					ND	
41 Tert-butyl ethyl ether	59		3.841					ND	
44 2,2-Dichloropropane	77		3.963					ND	
45 cis-1,2-Dichloroethene	96		3.993					ND	
43 2-Butanone (MEK)	43		4.017					ND	
42 Ethyl acetate	43		4.066					ND	
46 Propionitrile	54		4.121					ND	
48 Chlorobromomethane	128		4.188					ND	
49 Tetrahydrofuran	42		4.206					ND	
47 Methacrylonitrile	41		4.219					ND	
50 Chloroform	83		4.255					ND	
51 1,1,1-Trichloroethane	97		4.353					ND	
52 Cyclohexane	56		4.365					ND	
55 Carbon tetrachloride	117		4.469					ND	
54 1,1-Dichloropropene	75		4.481					ND	
57 Benzene	78		4.652					ND	
53 Isobutyl alcohol	43		4.652					ND	
146 Isooctane	57		4.670					ND	
58 1,2-Dichloroethane	62		4.700					ND	
140 t-Amyl alcohol	59		4.719					ND	
56 Tert-amyl methyl ether	73		4.725					ND	
59 n-Heptane	43		4.798					ND	
1 1,4-Difluorobenzene	114		4.975					ND	
154 2,4,4-Trimethyl-1-pentene	55		5.072					ND	
62 Trichloroethene	95		5.145					ND	
60 n-Butanol	56		5.176					ND	
64 Methylcyclohexane	83		5.249					ND	
145 Ethyl acrylate	55		5.261					ND	
153 2,4,4-Trimethyl-2-pentene	97		5.261					ND	
65 1,2-Dichloropropane	63		5.340					ND	
63 Methyl methacrylate	41		5.432					ND	
66 1,4-Dioxane	88		5.450					ND	
67 Dibromomethane	93		5.450					ND	
68 Dichlorobromomethane	83		5.566					ND	
70 2-Nitropropane	43		5.779					ND	
69 2-Chloroethyl vinyl ether	63		5.785					ND	
71 Epichlorohydrin	57		5.877					ND	
72 cis-1,3-Dichloropropene	75		5.895					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.005					ND	
74 Toluene	92		6.127					ND	
76 2-Methylthiophene	97		6.255					ND	
77 trans-1,3-Dichloropropene	75		6.340					ND	
75 Ethyl methacrylate	69		6.365					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 3-Methylthiophene	97		6.383					ND	
79 1,1,2-Trichloroethane	83		6.487					ND	
81 Tetrachloroethene	166		6.547					ND	
82 1,3-Dichloropropane	76		6.615					ND	
80 2-Hexanone	43		6.651					ND	
155 n-Butyl acetate	43		6.755					ND	
83 Chlorodibromomethane	129		6.797					ND	
84 Ethylene Dibromide	107		6.889					ND	
139 1-Chlorohexane	55	7.224	7.218	0.006	33	4119		0.1037	
85 3-Chlorobenzotrifluoride	180		7.230					ND	
87 Chlorobenzene	112		7.249					ND	
86 4-Chlorobenzotrifluoride	180		7.273					ND	
88 Ethylbenzene	91		7.316					ND	
89 1,1,1,2-Tetrachloroethane	131		7.322					ND	
90 m-Xylene & p-Xylene	106		7.407					ND	
91 o-Xylene	106		7.736					ND	
92 Styrene	104		7.755					ND	
95 Bromoform	173		7.950					ND	
93 2-Chlorobenzotrifluoride	180		7.980					ND	
94 Isopropylbenzene	105		8.023					ND	
96 Cyclohexanone	55		8.181					ND	
101 Bromobenzene	156		8.309					ND	
97 1,1,2,2-Tetrachloroethane	83		8.334					ND	
99 N-Propylbenzene	91		8.364					ND	
100 1,2,3-Trichloropropane	110		8.364					ND	
98 trans-1,4-Dichloro-2-butene	53		8.370					ND	
103 2-Chlorotoluene	126		8.456					ND	
102 1,3,5-Trimethylbenzene	105		8.504					ND	
104 3-Chlorotoluene	126		8.529					ND	
105 4-Chlorotoluene	126		8.547					ND	
106 tert-Butylbenzene	134		8.773					ND	
107 1,2,4-Trimethylbenzene	105		8.821					ND	
108 Pentachloroethane	167		8.846					ND	
109 sec-Butylbenzene	105		8.956					ND	
110 4-Isopropyltoluene	119		9.071					ND	
111 1,3-Dichlorobenzene	146		9.084					ND	
113 1,4-Dichlorobenzene	146		9.157					ND	
114 Dicyclopentadiene	66		9.163					ND	
112 1,2,3-Trimethylbenzene	105		9.200					ND	
143 Benzyl chloride	91		9.303					ND	
115 n-Butylbenzene	91		9.419					ND	
116 1,2-Dichlorobenzene	146		9.480					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.157					ND	
118 1,3,5-Trichlorobenzene	180		10.309					ND	
119 1,2,4-Trichlorobenzene	180		10.821					ND	
120 Hexachlorobutadiene	225		10.925					ND	
121 Naphthalene	128		11.034					ND	
122 1,2,3-Trichlorobenzene	180		11.230					ND	
142 2-Methylnaphthalene	142		11.925					ND	
149 Hexachloroethane	117		0.000					ND	
152 cis-1,4-Dichloro-2-butene	88		0.000					ND	
150 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 124 Xylenes, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

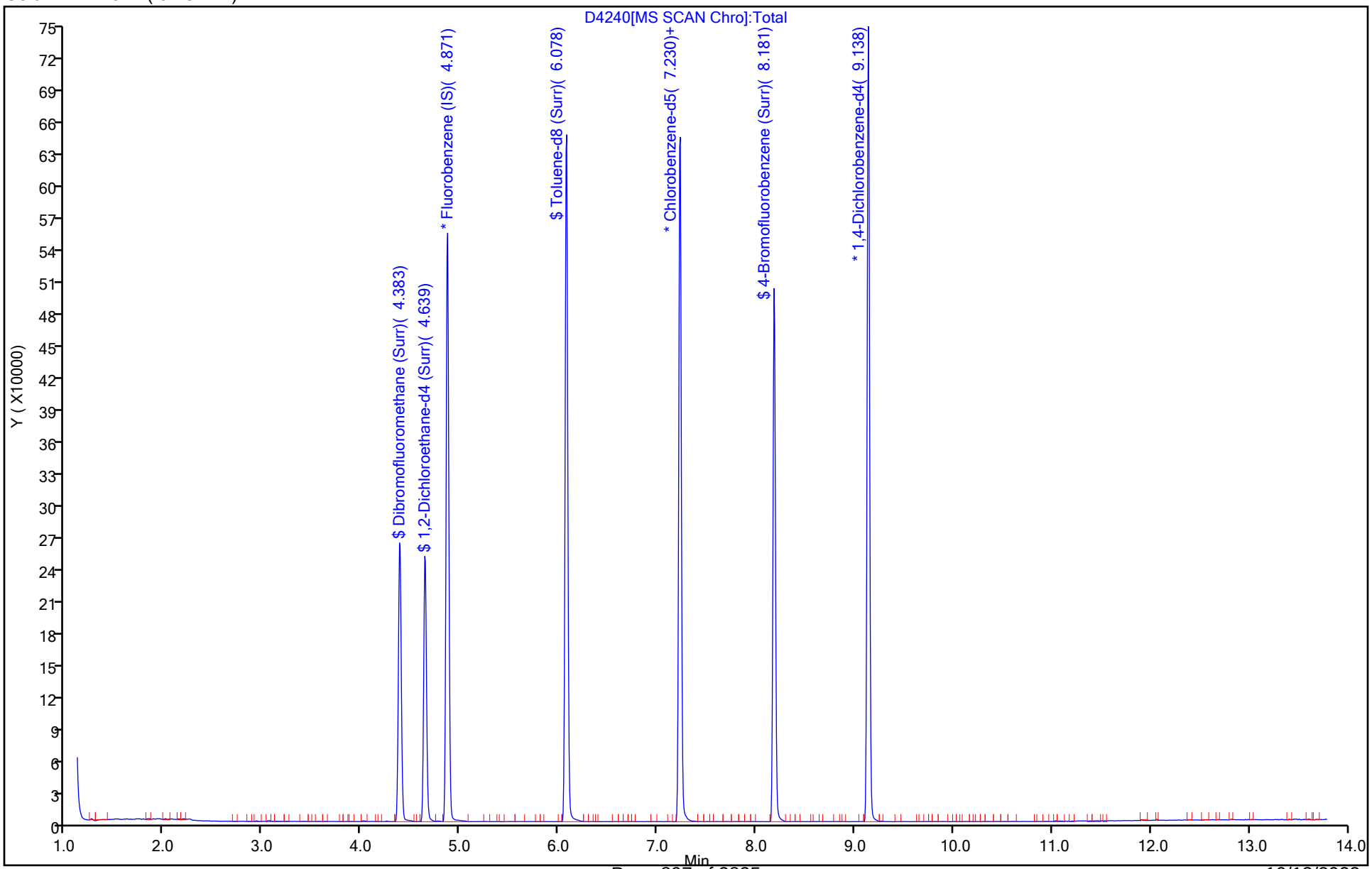
Report Date: 27-Sep-2023 07:46:39 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4240.d

Injection Date:	26-Sep-2023 23:04:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4240.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-Sep-2023 23:04:30 ALS Bottle#: 36 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0113980-009
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:46:05 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:46:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.6	94.28
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.5	94.17
$ 5 Toluene-d8 (Surr)	25.0	24.1	96.32
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.5	102.06

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685139/9

Matrix: Water | Lab File ID: D4259.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 11:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685139/9

Matrix: Water | Lab File ID: D4259.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 11:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4259.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Sep-2023 11:28:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0113984-009
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 12:24:43 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 12:24:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	98	98207	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	201059	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.139	9.139	0.000	95	215370	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.390	4.383	0.007	92	174067	25.0	24.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.639	0.007	100	92977	25.0	24.3	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	446422	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.181	0.007	95	155571	25.0	25.0	
10 Dichlorodifluoromethane	85		1.177					ND	
11 Chlorodifluoromethane	51		1.207					ND	
12 Chloromethane	50		1.341					ND	
13 Vinyl chloride	62		1.427					ND	
144 Butadiene	54		1.439					ND	
14 Bromomethane	94		1.713					ND	
15 Chloroethane	64		1.780					ND	
16 Dichlorofluoromethane	67		1.994					ND	
17 Trichlorofluoromethane	101		2.000					ND	
18 Ethyl ether	59		2.256					ND	
141 Ethanol	45		2.286					ND	
19 Propene oxide	58		2.353					ND	
20 Acrolein	56		2.420					ND	
22 1,1-Dichloroethene	96		2.457					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.463					ND	
23 Acetone	43		2.567					ND	
25 Iodomethane	142		2.609					ND	
26 Carbon disulfide	76		2.646					ND	
24 Isopropyl alcohol	45		2.762					ND	
28 3-Chloro-1-propene	41		2.798					ND	
27 Methyl acetate	43		2.847					ND	
29 Acetonitrile	40		2.871					ND	
30 Methylene Chloride	84		2.932					ND	
31 2-Methyl-2-propanol	59		3.091					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.128					ND	
34 trans-1,2-Dichloroethene	96		3.140					ND	
33 Acrylonitrile	53		3.182					ND	
35 Hexane	57		3.323					ND	
39 1,1-Dichloroethane	63		3.512					ND	
36 Isopropyl ether	45		3.548					ND	
37 Vinyl acetate	43		3.560					ND	
132 Halothane	117		3.566					ND	
40 2-Chloro-1,3-butadiene	53		3.585					ND	
38 1,1-Dimethoxyethane	75		3.609					ND	
41 Tert-butyl ethyl ether	59		3.841					ND	
44 2,2-Dichloropropane	77		3.963					ND	
45 cis-1,2-Dichloroethene	96		3.993					ND	
43 2-Butanone (MEK)	43		4.018					ND	
42 Ethyl acetate	43		4.066					ND	
46 Propionitrile	54		4.121					ND	
48 Chlorobromomethane	128		4.188					ND	
49 Tetrahydrofuran	42		4.207					ND	
47 Methacrylonitrile	41		4.219					ND	
50 Chloroform	83		4.255					ND	
51 1,1,1-Trichloroethane	97		4.353					ND	
52 Cyclohexane	56		4.365					ND	
55 Carbon tetrachloride	117		4.469					ND	
54 1,1-Dichloropropene	75		4.481					ND	
57 Benzene	78		4.652					ND	
53 Isobutyl alcohol	43		4.652					ND	
146 Isooctane	57		4.670					ND	
58 1,2-Dichloroethane	62		4.700					ND	
140 t-Amyl alcohol	59		4.719					ND	
56 Tert-amyl methyl ether	73		4.725					ND	
59 n-Heptane	43		4.798					ND	
1 1,4-Difluorobenzene	114		4.975					ND	
154 2,4,4-Trimethyl-1-pentene	55		5.072					ND	
62 Trichloroethene	95		5.145					ND	
60 n-Butanol	56		5.176					ND	
64 Methylcyclohexane	83		5.249					ND	
145 Ethyl acrylate	55		5.261					ND	
153 2,4,4-Trimethyl-2-pentene	97		5.261					ND	
65 1,2-Dichloropropane	63		5.340					ND	
63 Methyl methacrylate	41		5.432					ND	
66 1,4-Dioxane	88		5.450					ND	
67 Dibromomethane	93		5.450					ND	
68 Dichlorobromomethane	83		5.566					ND	
70 2-Nitropropane	43		5.779					ND	
69 2-Chloroethyl vinyl ether	63		5.786					ND	
71 Epichlorohydrin	57		5.877					ND	
72 cis-1,3-Dichloropropene	75		5.895					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.005					ND	
74 Toluene	92		6.127					ND	
76 2-Methylthiophene	97		6.255					ND	
77 trans-1,3-Dichloropropene	75		6.340					ND	
75 Ethyl methacrylate	69		6.365					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 3-Methylthiophene	97		6.383					ND	
79 1,1,2-Trichloroethane	83		6.487					ND	
81 Tetrachloroethene	166		6.548					ND	
82 1,3-Dichloropropane	76		6.615					ND	
80 2-Hexanone	43		6.657					ND	
155 n-Butyl acetate	43		6.755					ND	
83 Chlorodibromomethane	129		6.798					ND	
84 Ethylene Dibromide	107		6.889					ND	
139 1-Chlorohexane	55		7.218					ND	U
85 3-Chlorobenzotrifluoride	180		7.230					ND	
87 Chlorobenzene	112		7.249					ND	
86 4-Chlorobenzotrifluoride	180		7.273					ND	
88 Ethylbenzene	91		7.316					ND	
89 1,1,1,2-Tetrachloroethane	131		7.322					ND	
90 m-Xylene & p-Xylene	106		7.407					ND	
91 o-Xylene	106		7.736					ND	
92 Styrene	104		7.755					ND	
95 Bromoform	173		7.950					ND	
93 2-Chlorobenzotrifluoride	180		7.980					ND	
94 Isopropylbenzene	105		8.023					ND	
96 Cyclohexanone	55		8.181					ND	
101 Bromobenzene	156		8.309					ND	
97 1,1,2,2-Tetrachloroethane	83		8.334					ND	
99 N-Propylbenzene	91		8.364					ND	
100 1,2,3-Trichloropropane	110		8.364					ND	
98 trans-1,4-Dichloro-2-butene	53		8.370					ND	
103 2-Chlorotoluene	126		8.456					ND	
102 1,3,5-Trimethylbenzene	105		8.505					ND	
104 3-Chlorotoluene	126		8.529					ND	
105 4-Chlorotoluene	126		8.547					ND	
106 tert-Butylbenzene	134		8.773					ND	
107 1,2,4-Trimethylbenzene	105		8.822					ND	
108 Pentachloroethane	167		8.846					ND	
109 sec-Butylbenzene	105		8.956					ND	
110 4-Isopropyltoluene	119		9.071					ND	
111 1,3-Dichlorobenzene	146		9.084					ND	
113 1,4-Dichlorobenzene	146		9.157					ND	
114 Dicyclopentadiene	66		9.163					ND	
112 1,2,3-Trimethylbenzene	105		9.200					ND	
143 Benzyl chloride	91		9.303					ND	
115 n-Butylbenzene	91		9.419					ND	
116 1,2-Dichlorobenzene	146		9.480					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.157					ND	
118 1,3,5-Trichlorobenzene	180		10.309					ND	
119 1,2,4-Trichlorobenzene	180		10.821					ND	
120 Hexachlorobutadiene	225		10.931					ND	
121 Naphthalene	128		11.035					ND	
122 1,2,3-Trichlorobenzene	180		11.230					ND	
142 2-Methylnaphthalene	142		11.925					ND	
149 Hexachloroethane	117		0.000					ND	
152 cis-1,4-Dichloro-2-butene	88		0.000					ND	
150 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 124 Xylenes, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

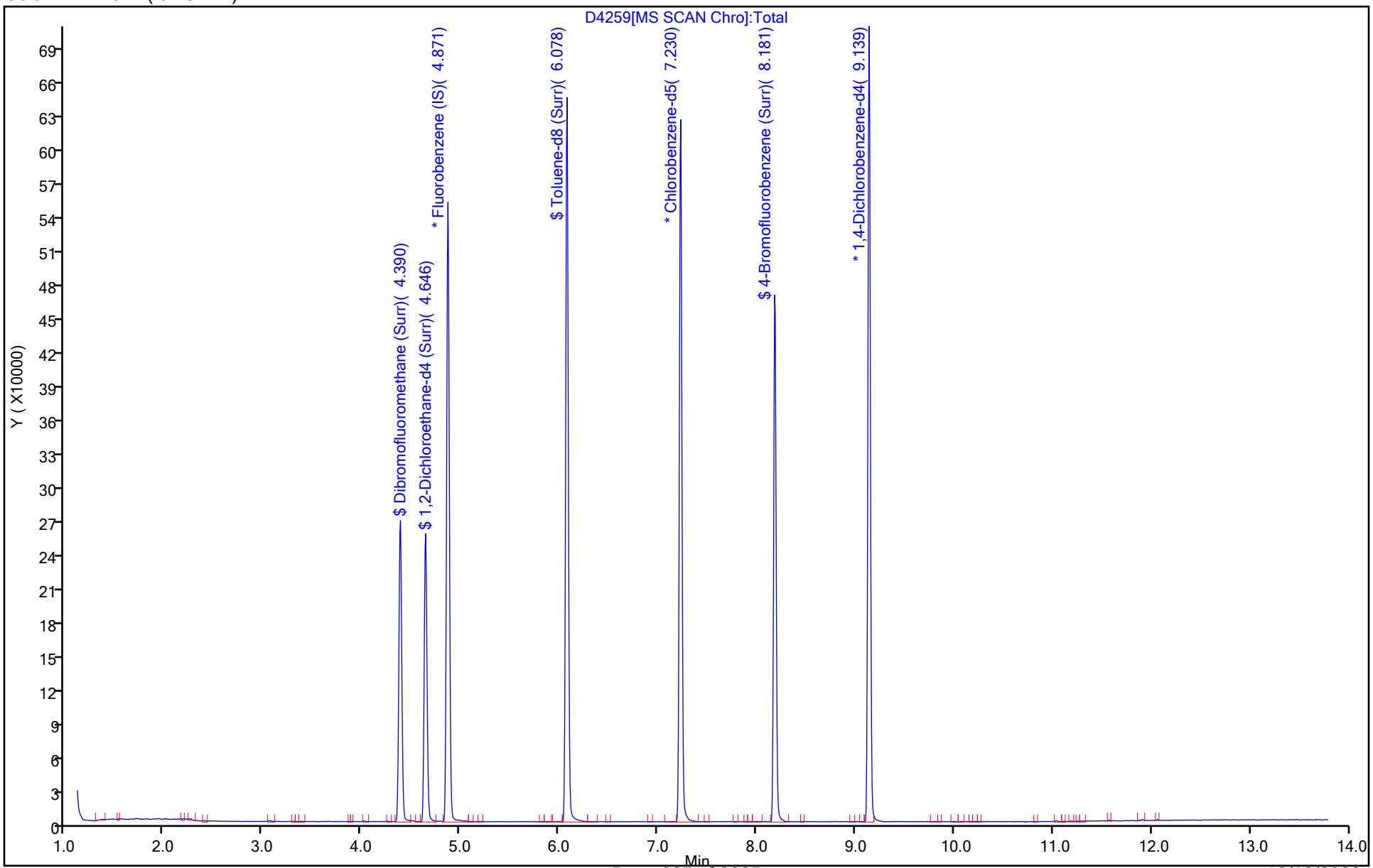
Report Date: 27-Sep-2023 12:24:44 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4259.d

Injection Date:	27-Sep-2023 11:28:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4259.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Sep-2023 11:28:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0113984-009
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 12:24:43 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 12:24:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.0	95.98
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	24.3	97.23
$ 5 Toluene-d8 (Surr)	25.0	24.4	97.54
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.0	99.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685187/9

Matrix: Water | Lab File ID: L1014.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 14:46

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685187/9

Matrix: Water | Lab File ID: L1014.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 14:46

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1014.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Sep-2023 14:46:02 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0113994-009
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 15:43:22 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: WLL8 Date: 27-Sep-2023 15:43:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	159505	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.544	0.004	87	628045	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.949	10.949	0.000	96	339664	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.120	5.123	0.000	93	198573	25.0	24.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.419	5.419	0.000	98	248348	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	7.088	7.090	0.000	93	803519	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.789	0.001	97	229925	25.0	25.4	
9 Chlorodifluoromethane	51		1.702					ND	
10 Dichlorodifluoromethane	85		1.721					ND	
13 Chloromethane	50		1.940					ND	
14 Vinyl chloride	62		2.052					ND	
15 Butadiene	54		2.078					ND	
18 Bromomethane	94		2.419					ND	
19 Chloroethane	64		2.483					ND	
20 Dichlorofluoromethane	67		2.705					ND	
21 Trichlorofluoromethane	101		2.724					ND	
26 Ethyl ether	59		2.950					ND	
11 Ethanol	45		2.950					ND	
12 Propene oxide	58		3.046					ND	
28 Acrolein	56		3.130					ND	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159					ND	
30 1,1-Dichloroethene	96		3.187					ND	
31 Acetone	43		3.268					ND	
33 Iodomethane	142		3.358					ND	
16 Isopropyl alcohol	45		3.406					ND	
35 Carbon disulfide	76		3.409					ND	
37 3-Chloro-1-propene	41		3.503					ND	
38 Methyl acetate	43		3.525					ND	
17 Acetonitrile	40		3.554					ND	
39 Methylene Chloride	84		3.644					ND	
40 2-Methyl-2-propanol	59		3.741					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Methyl tert-butyl ether	73		3.805					ND	
42 trans-1,2-Dichloroethene	96		3.837					ND	
44 Acrylonitrile	53		3.876					ND	
47 Hexane	57		3.995					ND	
22 Isopropyl ether	45		4.188					ND	
23 Halothane	117		4.204					ND	
50 1,1-Dichloroethane	63		4.213					ND	
49 Vinyl acetate	43		4.226					ND	
24 2-Chloro-1,3-butadiene	53		4.265					ND	
25 1,1-Dimethoxyethane	75		4.265					ND	
27 Tert-butyl ethyl ether	59		4.493					ND	
56 2,2-Dichloropropane	77		4.683					ND	
58 cis-1,2-Dichloroethene	96		4.708					ND	
57 2-Butanone (MEK)	43		4.718					ND	
32 Ethyl acetate	43		4.728					ND	
34 Propionitrile	54		4.824					ND	
60 Chlorobromomethane	128		4.924					ND	
36 Methacrylonitrile	41		4.924					ND	
61 Tetrahydrofuran	42		4.943					ND	U
62 Chloroform	83		4.975					ND	
64 1,1,1-Trichloroethane	97		5.107					ND	
65 Cyclohexane	56		5.126					ND	
66 Carbon tetrachloride	117		5.236					ND	
67 1,1-Dichloropropene	75		5.239					ND	
69 Isobutyl alcohol	43		5.361					ND	
43 Isooctane	57		5.403					ND	
45 t-Amyl alcohol	59		5.432					ND	
70 Benzene	78		5.435					ND	
46 Tert-amyl methyl ether	73		5.467					ND	
72 1,2-Dichloroethane	62		5.486					ND	
73 n-Heptane	43		5.548					ND	
48 1,4-Difluorobenzene	114		5.754					ND	
51 2,4,4-Trimethyl-1-pentene	55		5.863					ND	
52 n-Butanol	56		5.937					ND	
75 Trichloroethene	95		5.985					ND	
53 Ethyl acrylate	55		6.059					ND	
54 2,4,4-Trimethyl-2-pentene	97		6.065					ND	
76 Methylcyclohexane	83		6.107					ND	
77 1,2-Dichloropropane	63		6.216					ND	
55 Methyl methacrylate	41		6.258					ND	
81 1,4-Dioxane	88		6.335					ND	
82 Dibromomethane	93		6.351					ND	
83 Dichlorobromomethane	83		6.474					ND	
84 2-Chloroethyl vinyl ether	63		6.705					ND	
59 2-Nitropropane	43		6.709					ND	
63 Epichlorohydrin	57		6.824					ND	
85 cis-1,3-Dichloropropene	75		6.866					ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982					ND	
88 Toluene	92		7.152					ND	
68 2-Methylthiophene	97		7.294					ND	
91 trans-1,3-Dichloropropene	75		7.403					ND	
90 Ethyl methacrylate	69		7.409					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 3-Methylthiophene	97		7.451					ND	
93 1,1,2-Trichloroethane	83		7.596					ND	
94 Tetrachloroethene	166		7.673					ND	
95 1,3-Dichloropropane	76		7.760					ND	
96 2-Hexanone	43		7.785					ND	
74 n-Butyl acetate	43		7.872					ND	
98 Chlorodibromomethane	129		7.998					ND	
101 Ethylene Dibromide	107		8.120					ND	
79 3-Chlorobenzotrifluoride	180		8.496					ND	
78 1-Chlorohexane	55		8.544					ND	U
80 4-Chlorobenzotrifluoride	180		8.554					ND	
103 Chlorobenzene	112		8.573					ND	
104 Ethylbenzene	91		8.644					ND	
105 1,1,1,2-Tetrachloroethane	131		8.660					ND	
106 m-Xylene & p-Xylene	106		8.760					ND	
107 o-Xylene	106		9.191					ND	
109 Styrene	104		9.216					ND	
86 2-Chlorobenzotrifluoride	180		9.483					ND	
110 Bromoform	173		9.490					ND	
111 Isopropylbenzene	105		9.564					ND	
89 Cyclohexanone	55		9.776					ND	U
113 Bromobenzene	156		9.959					ND	
112 1,1,2,2-Tetrachloroethane	83		9.975					ND	
114 N-Propylbenzene	91		10.007					ND	
115 trans-1,4-Dichloro-2-butene	53		10.020					ND	
116 1,2,3-Trichloropropane	110		10.023					ND	
117 2-Chlorotoluene	126		10.136					ND	
118 1,3,5-Trimethylbenzene	105		10.184					ND	
92 3-Chlorotoluene	126		10.200					ND	
119 4-Chlorotoluene	91		10.248					ND	
120 tert-Butylbenzene	134		10.518					ND	
121 1,2,4-Trimethylbenzene	105		10.573					ND	
97 Pentachloroethane	167		10.596					ND	
122 sec-Butylbenzene	105		10.727					ND	
123 4-Isopropyltoluene	119		10.863					ND	
124 1,3-Dichlorobenzene	146		10.888					ND	
99 Dicyclopentadiene	66		10.949					ND	U
126 1,4-Dichlorobenzene	146		10.975					ND	
100 1,2,3-Trimethylbenzene	105		10.991					ND	
102 Benzyl chloride	126		11.114					ND	
127 n-Butylbenzene	91		11.248					ND	
128 1,2-Dichlorobenzene	146		11.329					ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030					ND	
108 1,3,5-Trichlorobenzene	180		12.152					ND	
130 1,2,4-Trichlorobenzene	180		12.657					ND	
131 Hexachlorobutadiene	225		12.744					ND	
132 Naphthalene	128		12.866					ND	
133 1,2,3-Trichlorobenzene	180		13.062					ND	
125 2-Methylnaphthalene	142		13.840					ND	
134 Ethylene oxide TIC	1		0.000					ND	
135 Propene oxide TIC	1		0.000					ND	
138 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
137 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 1-Bromopropane TIC	1		0.000					ND	
139 Hexachloroethane	117		0.000					ND	
S 141 1,2-Dichloroethene, Total	1		30.000					ND	7
S 142 Total BTEX	1		30.000					ND	7
S 144 1,3-Dichloropropene, Total	1		30.000					ND	7
S 143 Xylenes, Total	1		30.000					ND	7
S 145 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

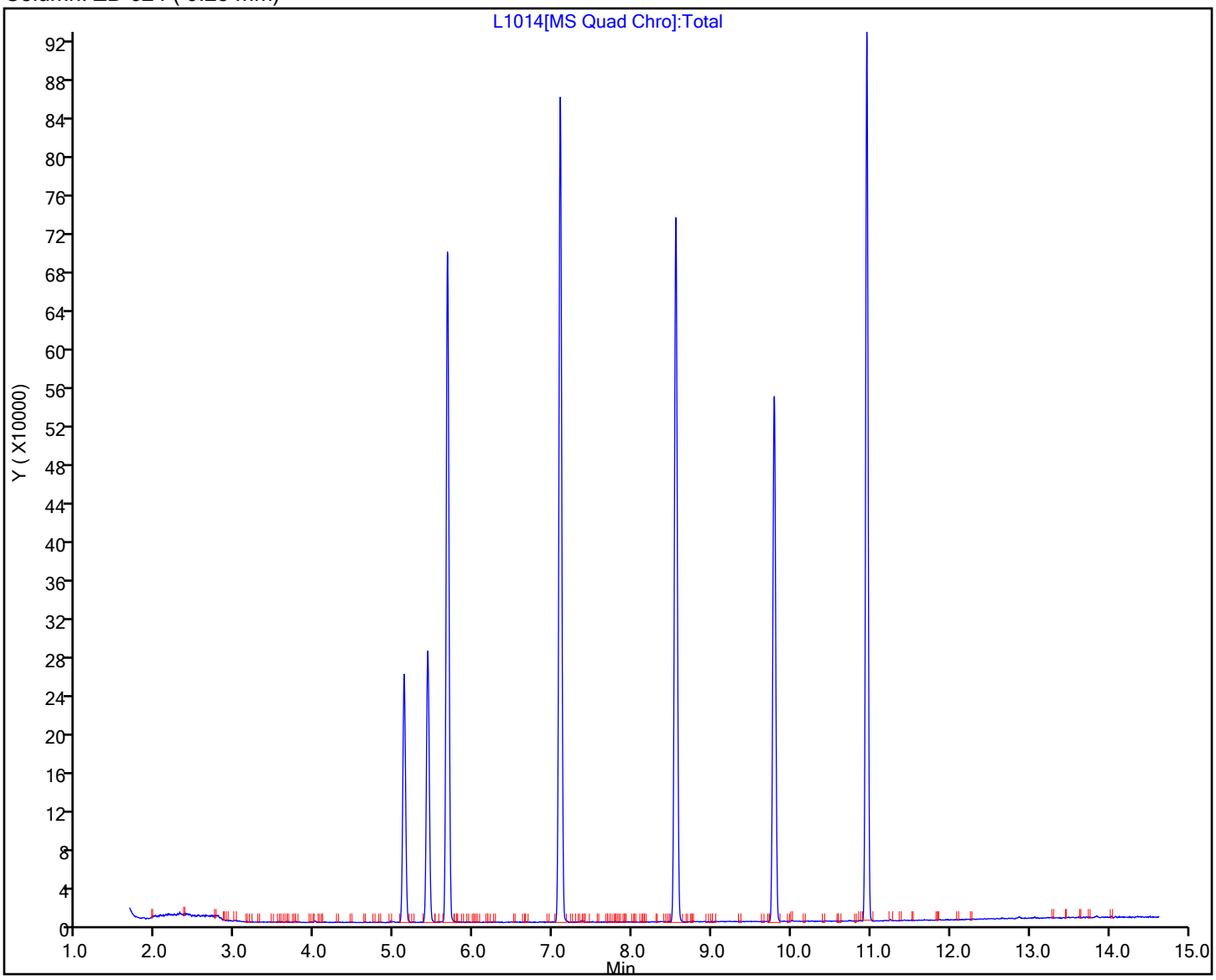
Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 27-Sep-2023 15:43:22 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1014.D
Injection Date: 27-Sep-2023 14:46:02 Instrument ID: HP5977L
Lims ID: MB
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1014.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Sep-2023 14:46:02 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0113994-009
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 15:43:22 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: WLL8 Date: 27-Sep-2023 15:43:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	24.2	96.85
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.5	98.02
$ 6 Toluene-d8 (Surr)	25.0	24.8	99.40
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.4	101.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685418/8

Matrix: Water | Lab File ID: L1075.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 02:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685418/8

Matrix: Water | Lab File ID: L1075.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 02:02

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1075.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Sep-2023 02:02:08 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0114025-008
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:29:40 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:29:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	98	137979	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.544	0.004	86	525919	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	289164	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.127	5.123	0.004	93	178689	25.0	25.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	98	222266	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	685044	25.0	25.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.785	0.001	97	189116	25.0	25.0	
10 Dichlorodifluoromethane	85		1.721					ND	
9 Chlorodifluoromethane	51		1.747					ND	
13 Chloromethane	50		1.940					ND	
14 Vinyl chloride	62		2.053					ND	
15 Butadiene	54		2.078					ND	
18 Bromomethane	94		2.413					ND	
19 Chloroethane	64		2.483					ND	
20 Dichlorofluoromethane	67		2.705					ND	
21 Trichlorofluoromethane	101		2.721					ND	
26 Ethyl ether	59		2.946					ND	
11 Ethanol	45		2.953					ND	
12 Propene oxide	58		3.046					ND	
28 Acrolein	56		3.126					ND	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.159					ND	
30 1,1-Dichloroethene	96		3.191					ND	
31 Acetone	43		3.268					ND	
33 Iodomethane	142		3.358					ND	
16 Isopropyl alcohol	45		3.406					ND	
35 Carbon disulfide	76		3.416					ND	
37 3-Chloro-1-propene	41		3.499					ND	
38 Methyl acetate	43		3.525					ND	
17 Acetonitrile	40		3.557					ND	
39 Methylene Chloride	84		3.651					ND	
40 2-Methyl-2-propanol	59		3.744					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Methyl tert-butyl ether	73		3.808					ND	
42 trans-1,2-Dichloroethene	96		3.837					ND	
44 Acrylonitrile	53		3.879					ND	
47 Hexane	57		3.995					ND	
22 Isopropyl ether	45		4.187					ND	
23 Halothane	117		4.204					ND	
50 1,1-Dichloroethane	63		4.210					ND	
49 Vinyl acetate	43		4.226					ND	
24 2-Chloro-1,3-butadiene	53		4.265					ND	
25 1,1-Dimethoxyethane	75		4.265					ND	
27 Tert-butyl ethyl ether	59		4.493					ND	
56 2,2-Dichloropropane	77		4.683					ND	
58 cis-1,2-Dichloroethene	96		4.705					ND	
57 2-Butanone (MEK)	43		4.718					ND	
32 Ethyl acetate	43		4.728					ND	
34 Propionitrile	54		4.824					ND	
36 Methacrylonitrile	41		4.924					ND	
60 Chlorobromomethane	128		4.927					ND	
61 Tetrahydrofuran	42		4.946					ND	
62 Chloroform	83		4.975					ND	
64 1,1,1-Trichloroethane	97		5.107					ND	
65 Cyclohexane	56		5.126					ND	
66 Carbon tetrachloride	117		5.239					ND	
67 1,1-Dichloropropene	75		5.239					ND	
69 Isobutyl alcohol	43		5.364					ND	
43 Isooctane	57		5.400					ND	
70 Benzene	78		5.432					ND	
45 t-Amyl alcohol	59		5.435					ND	
46 Tert-amyl methyl ether	73		5.467					ND	
72 1,2-Dichloroethane	62		5.487					ND	
73 n-Heptane	43		5.544					ND	
48 1,4-Difluorobenzene	114		5.753					ND	
51 2,4,4-Trimethyl-1-pentene	55		5.863					ND	
52 n-Butanol	56		5.937					ND	
75 Trichloroethene	95		5.985					ND	
53 Ethyl acrylate	55		6.059					ND	
54 2,4,4-Trimethyl-2-pentene	97		6.065					ND	
76 Methylcyclohexane	83		6.110					ND	
77 1,2-Dichloropropane	63		6.216					ND	
55 Methyl methacrylate	41		6.258					ND	
81 1,4-Dioxane	88		6.335					ND	
82 Dibromomethane	93		6.351					ND	
83 Dichlorobromomethane	83		6.477					ND	
84 2-Chloroethyl vinyl ether	63		6.708					ND	
59 2-Nitropropane	43		6.708					ND	
63 Epichlorohydrin	57		6.821					ND	
85 cis-1,3-Dichloropropene	75		6.866					ND	
87 4-Methyl-2-pentanone (MIBK)	43		6.982					ND	
88 Toluene	92		7.152					ND	
68 2-Methylthiophene	97		7.290					ND	
91 trans-1,3-Dichloropropene	75		7.400					ND	
90 Ethyl methacrylate	69		7.409					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 3-Methylthiophene	97		7.451					ND	
93 1,1,2-Trichloroethane	83		7.596					ND	
94 Tetrachloroethene	166		7.673					ND	
95 1,3-Dichloropropane	76		7.760					ND	
96 2-Hexanone	43		7.789					ND	
74 n-Butyl acetate	43		7.872					ND	
98 Chlorodibromomethane	129		7.998					ND	
101 Ethylene Dibromide	107		8.120					ND	
78 1-Chlorohexane	55		8.483					ND	
79 3-Chlorobenzotrifluoride	180		8.493					ND	
80 4-Chlorobenzotrifluoride	180		8.554					ND	
103 Chlorobenzene	112		8.576					ND	
104 Ethylbenzene	91		8.644					ND	
105 1,1,1,2-Tetrachloroethane	131		8.660					ND	
106 m-Xylene & p-Xylene	106		8.760					ND	
107 o-Xylene	106		9.191					ND	
109 Styrene	104		9.220					ND	
86 2-Chlorobenzotrifluoride	180		9.480					ND	
110 Bromoform	173		9.490					ND	
111 Isopropylbenzene	105		9.564					ND	
89 Cyclohexanone	55		9.776					ND	U
113 Bromobenzene	156		9.959					ND	
112 1,1,2,2-Tetrachloroethane	83		9.972					ND	
114 N-Propylbenzene	91		10.007					ND	
115 trans-1,4-Dichloro-2-butene	53		10.023					ND	
116 1,2,3-Trichloropropane	110		10.027					ND	
117 2-Chlorotoluene	126		10.136					ND	
118 1,3,5-Trimethylbenzene	105		10.184					ND	
92 3-Chlorotoluene	126		10.200					ND	
119 4-Chlorotoluene	91		10.248					ND	
120 tert-Butylbenzene	134		10.519					ND	
121 1,2,4-Trimethylbenzene	105		10.573					ND	
97 Pentachloroethane	167		10.596					ND	
122 sec-Butylbenzene	105		10.731					ND	
123 4-Isopropyltoluene	119		10.863					ND	
124 1,3-Dichlorobenzene	146		10.888					ND	
99 Dicyclopentadiene	66		10.959					ND	U
126 1,4-Dichlorobenzene	146		10.975					ND	
100 1,2,3-Trimethylbenzene	105		10.991					ND	
102 Benzyl chloride	126		11.113					ND	
127 n-Butylbenzene	91		11.248					ND	
128 1,2-Dichlorobenzene	146		11.329					ND	
129 1,2-Dibromo-3-Chloropropane	75		12.030					ND	
108 1,3,5-Trichlorobenzene	180		12.149					ND	
130 1,2,4-Trichlorobenzene	180		12.657					ND	
131 Hexachlorobutadiene	225		12.744					ND	
132 Naphthalene	128		12.869					ND	
133 1,2,3-Trichlorobenzene	180		13.065					ND	
125 2-Methylnaphthalene	142		13.840					ND	
134 Ethylene oxide TIC	1		0.000					ND	
135 Propene oxide TIC	1		0.000					ND	
138 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
137 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 1-Bromopropane TIC	1		0.000					ND	
139 Hexachloroethane	117		0.000					ND	
S 141 1,2-Dichloroethene, Total	1		30.000					ND	7
S 142 Total BTEX	1		30.000					ND	7
S 144 1,3-Dichloropropene, Total	1		30.000					ND	7
S 143 Xylenes, Total	1		30.000					ND	7
S 145 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 29-Sep-2023 09:29:41 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1075.D

Injection Date: 29-Sep-2023 02:02:08 Instrument ID: HP5977L

Lims ID: MB

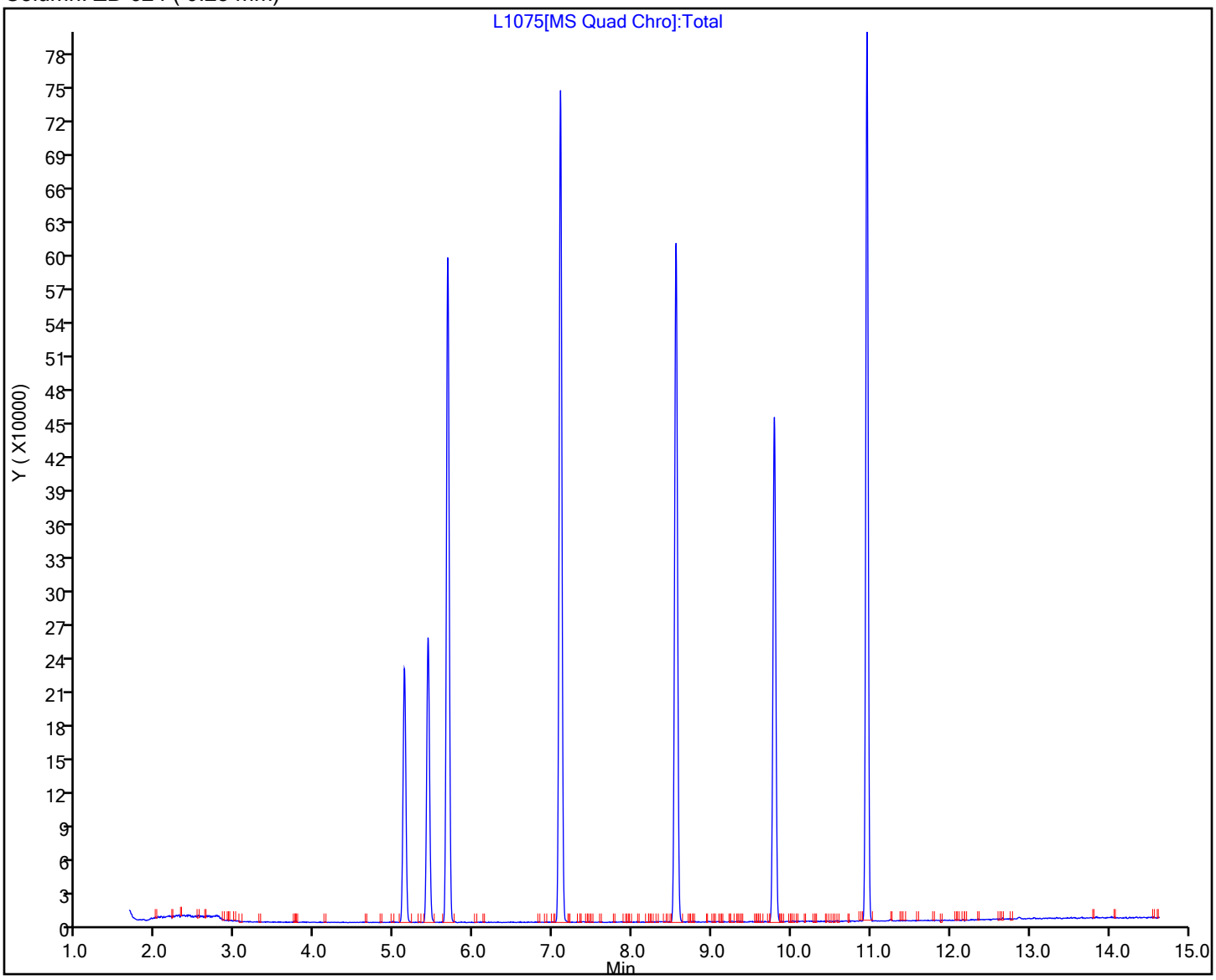
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1075.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Sep-2023 02:02:08 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0114025-008
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:29:40 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:29:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.2	100.75
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.4	101.42
$ 6 Toluene-d8 (Surr)	25.0	25.3	101.20
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.0	99.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685822/8

Matrix: Water | Lab File ID: D4458.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 17:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685822/8

Matrix: Water | Lab File ID: D4458.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 17:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4458.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Oct-2023 17:31:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0114077-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:26:25 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 18:26:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	99	99644	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	209770	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.145	0.000	95	231132	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.390	4.389	0.001	92	175802	25.0	23.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.645	0.001	99	91782	25.0	23.6	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	457740	25.0	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.187	0.001	95	165662	25.0	25.5	
10 Dichlorodifluoromethane	85		1.177					ND	
11 Chlorodifluoromethane	51		1.201					ND	
12 Chloromethane	50		1.341					ND	
13 Vinyl chloride	62		1.427					ND	
144 Butadiene	54		1.445					ND	
14 Bromomethane	94		1.719					ND	
15 Chloroethane	64		1.780					ND	
16 Dichlorofluoromethane	67		2.000					ND	
17 Trichlorofluoromethane	101		2.006					ND	
18 Ethyl ether	59		2.262					ND	
141 Ethanol	45		2.280					ND	
19 Propene oxide	58		2.347					ND	
20 Acrolein	56		2.426					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.469					ND	
22 1,1-Dichloroethene	96		2.469					ND	
23 Acetone	43		2.573					ND	
25 Iodomethane	142		2.621					ND	
26 Carbon disulfide	76		2.652					ND	
24 Isopropyl alcohol	45		2.756					ND	
28 3-Chloro-1-propene	41		2.810					ND	
27 Methyl acetate	43		2.853					ND	
29 Acetonitrile	40		2.859					ND	
30 Methylene Chloride	84		2.938					ND	
31 2-Methyl-2-propanol	59		3.097					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.134					ND	
34 trans-1,2-Dichloroethene	96		3.146					ND	
33 Acrylonitrile	53		3.188					ND	
35 Hexane	57		3.323					ND	
39 1,1-Dichloroethane	63		3.518					ND	
36 Isopropyl ether	45		3.530					ND	
132 Halothane	117		3.554					ND	
37 Vinyl acetate	43		3.566					ND	
40 2-Chloro-1,3-butadiene	53		3.572					ND	
38 1,1-Dimethoxyethane	75		3.597					ND	
41 Tert-butyl ethyl ether	59		3.828					ND	
44 2,2-Dichloropropane	77		3.969					ND	
45 cis-1,2-Dichloroethene	96		3.999					ND	
43 2-Butanone (MEK)	43		4.024					ND	
42 Ethyl acetate	43		4.054					ND	
46 Propionitrile	54		4.109					ND	
48 Chlorobromomethane	128		4.194					ND	
47 Methacrylonitrile	41		4.200					ND	
49 Tetrahydrofuran	42		4.213					ND	
50 Chloroform	83		4.261					ND	
51 1,1,1-Trichloroethane	97		4.359					ND	
52 Cyclohexane	56		4.371					ND	
55 Carbon tetrachloride	117		4.475					ND	
54 1,1-Dichloropropene	75		4.487					ND	
146 Isooctane	57		4.651					ND	
57 Benzene	78		4.658					ND	
53 Isobutyl alcohol	43		4.658					ND	
140 t-Amyl alcohol	59		4.706					ND	
58 1,2-Dichloroethane	62		4.706					ND	
56 Tert-amyl methyl ether	73		4.712					ND	
59 n-Heptane	43		4.804					ND	
1 1,4-Difluorobenzene	114		4.962					ND	
154 2,4,4-Trimethyl-1-pentene	55		5.060					ND	
62 Trichloroethene	95		5.151					ND	
60 n-Butanol	56		5.157					ND	
145 Ethyl acrylate	55		5.243					ND	
153 2,4,4-Trimethyl-2-pentene	97		5.249					ND	
64 Methylcyclohexane	83		5.255					ND	
65 1,2-Dichloropropane	63		5.347					ND	
63 Methyl methacrylate	41		5.414					ND	
67 Dibromomethane	93		5.456					ND	
66 1,4-Dioxane	88		5.456					ND	
68 Dichlorobromomethane	83		5.572					ND	
70 2-Nitropropane	43		5.767					ND	
69 2-Chloroethyl vinyl ether	63		5.785					ND	
71 Epichlorohydrin	57		5.865					ND	
72 cis-1,3-Dichloropropene	75		5.901					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.011					ND	
74 Toluene	92		6.133					ND	
76 2-Methylthiophene	97		6.255					ND	
77 trans-1,3-Dichloropropene	75		6.346					ND	
78 3-Methylthiophene	97		6.371					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		6.371					ND	
79 1,1,2-Trichloroethane	83		6.493					ND	
81 Tetrachloroethene	166		6.554					ND	
82 1,3-Dichloropropane	76		6.621					ND	
80 2-Hexanone	43		6.657					ND	
155 n-Butyl acetate	43		6.736					ND	
83 Chlorodibromomethane	129		6.804					ND	
84 Ethylene Dibromide	107		6.895					ND	
139 1-Chlorohexane	55		7.206					ND	U
85 3-Chlorobenzotrifluoride	180		7.218					ND	
87 Chlorobenzene	112		7.255					ND	
86 4-Chlorobenzotrifluoride	180		7.261					ND	
88 Ethylbenzene	91		7.322					ND	
89 1,1,1,2-Tetrachloroethane	131		7.328					ND	
90 m-Xylene & p-Xylene	106		7.413					ND	
91 o-Xylene	106		7.742					ND	
92 Styrene	104		7.761					ND	
95 Bromoform	173		7.956					ND	
93 2-Chlorobenzotrifluoride	180		7.968					ND	
94 Isopropylbenzene	105		8.029					ND	
96 Cyclohexanone	55		8.169					ND	
101 Bromobenzene	156		8.315					ND	
97 1,1,2,2-Tetrachloroethane	83		8.340					ND	
99 N-Propylbenzene	91		8.364					ND	
100 1,2,3-Trichloropropane	110		8.370					ND	
98 trans-1,4-Dichloro-2-butene	53		8.376					ND	
103 2-Chlorotoluene	126		8.462					ND	
104 3-Chlorotoluene	126		8.510					ND	
102 1,3,5-Trimethylbenzene	105		8.511					ND	
105 4-Chlorotoluene	126		8.553					ND	
106 tert-Butylbenzene	134		8.779					ND	
107 1,2,4-Trimethylbenzene	105		8.828					ND	
108 Pentachloroethane	167		8.834					ND	
109 sec-Butylbenzene	105		8.962					ND	
110 4-Isopropyltoluene	119		9.078					ND	
111 1,3-Dichlorobenzene	146		9.090					ND	
114 Dicyclopentadiene	66		9.151					ND	
113 1,4-Dichlorobenzene	146		9.163					ND	
112 1,2,3-Trimethylbenzene	105		9.181					ND	
143 Benzyl chloride	91		9.285					ND	
115 n-Butylbenzene	91		9.425					ND	
116 1,2-Dichlorobenzene	146		9.486					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.163					ND	
118 1,3,5-Trichlorobenzene	180		10.291					ND	
119 1,2,4-Trichlorobenzene	180		10.827					ND	
120 Hexachlorobutadiene	225		10.931					ND	
121 Naphthalene	128		11.034					ND	
122 1,2,3-Trichlorobenzene	180		11.236					ND	
142 2-Methylnaphthalene	142		11.912					ND	
149 Hexachloroethane	117		0.000					ND	
152 cis-1,4-Dichloro-2-butene	88		0.000					ND	
150 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 124 Xylenes, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00069 Amount Added: 1.00 Units: uL Run Reagent

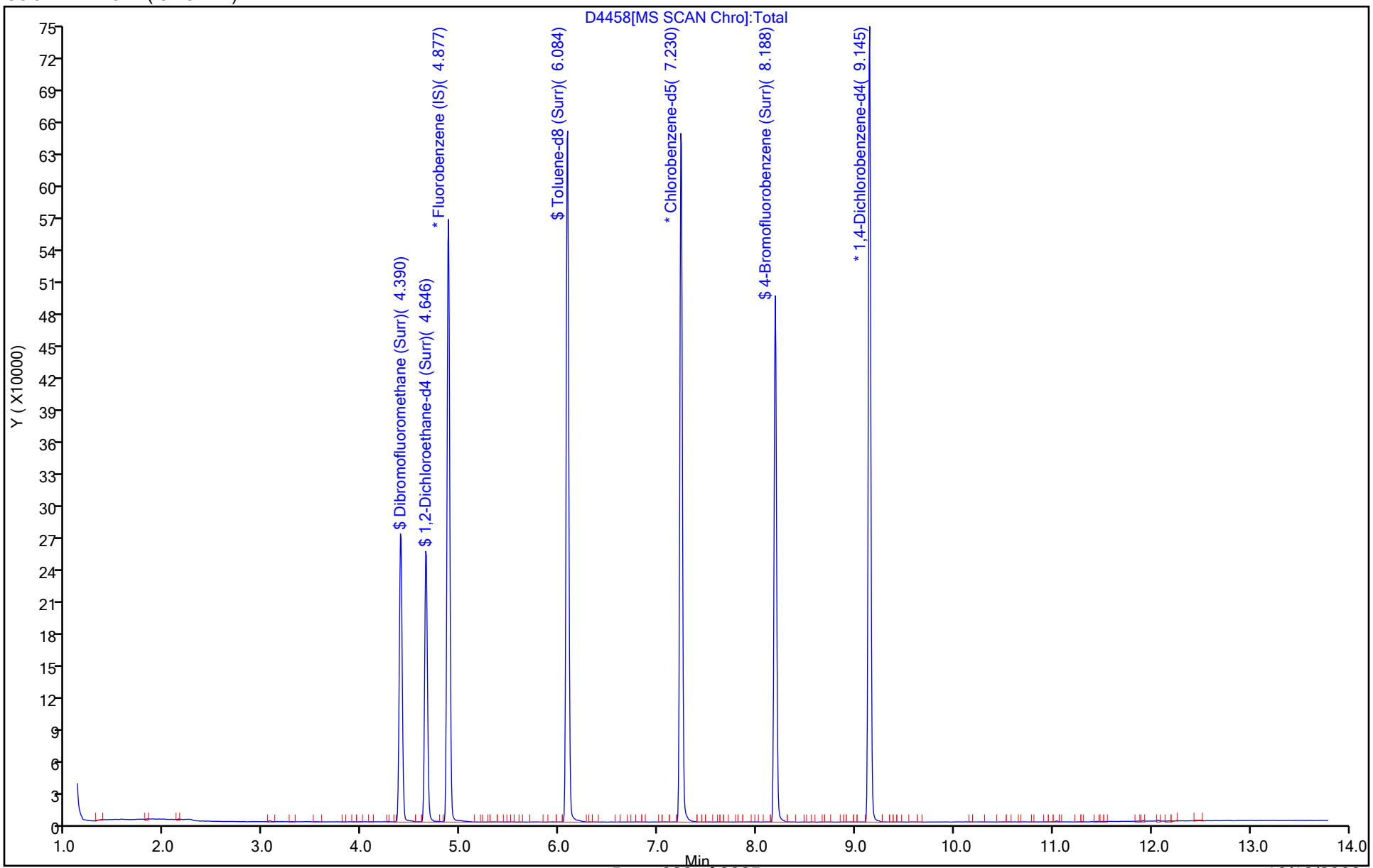
Report Date: 02-Oct-2023 18:26:26 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4458.d

Injection Date:	02-Oct-2023 17:31:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4458.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Oct-2023 17:31:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0114077-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:26:25 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 18:26:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.9	95.54
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.6	94.60
$ 5 Toluene-d8 (Surr)	25.0	24.0	95.86
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.5	102.00

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685071/6

Matrix: Water | Lab File ID: D4238.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/26/2023 22:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	27.4		1.0	0.21
79-00-5	1,1,2-Trichloroethane	28.1		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27.8		1.0	0.31
75-34-3	1,1-Dichloroethane	25.6		1.0	0.38
75-35-4	1,1-Dichloroethene	28.7		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	28.2		1.0	0.39
95-50-1	1,2-Dichlorobenzene	25.8		1.0	0.79
107-06-2	1,2-Dichloroethane	24.3		1.0	0.21
78-87-5	1,2-Dichloropropane	27.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	27.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.7		1.0	0.84
78-93-3	2-Butanone (MEK)	140		10	1.3
591-78-6	2-Hexanone	161		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	147		5.0	2.1
67-64-1	Acetone	125		10	3.0
71-43-2	Benzene	26.4		1.0	0.41
75-27-4	Bromodichloromethane	27.5		1.0	0.39
75-25-2	Bromoform	33.0		1.0	0.26
74-83-9	Bromomethane	23.5		1.0	0.69
75-15-0	Carbon disulfide	28.3		1.0	0.19
56-23-5	Carbon tetrachloride	29.8		1.0	0.27
108-90-7	Chlorobenzene	27.1		1.0	0.75
124-48-1	Dibromochloromethane	30.1		1.0	0.32
75-00-3	Chloroethane	23.0		1.0	0.32
67-66-3	Chloroform	24.7		1.0	0.34
74-87-3	Chloromethane	21.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.7		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	28.1		1.0	0.36
110-82-7	Cyclohexane	28.7		1.0	0.18
75-71-8	Dichlorodifluoromethane	21.8		1.0	0.68
100-41-4	Ethylbenzene	28.5		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685071/6

Matrix: Water | Lab File ID: D4238.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/26/2023 22:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685071 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	28.2		1.0	0.73
98-82-8	Isopropylbenzene	26.5		1.0	0.79
79-20-9	Methyl acetate	53.3		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.6		1.0	0.16
108-87-2	Methylcyclohexane	27.9		1.0	0.16
75-09-2	Methylene Chloride	25.6		1.0	0.44
100-42-5	Styrene	28.1		1.0	0.73
127-18-4	Tetrachloroethene	27.6		1.0	0.36
108-88-3	Toluene	27.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	29.3		1.0	0.37
79-01-6	Trichloroethene	26.5		1.0	0.46
75-69-4	Trichlorofluoromethane	27.1		1.0	0.88
75-01-4	Vinyl chloride	24.2		1.0	0.90
1330-20-7	Xylenes, Total	54.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4238.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 26-Sep-2023 22:20:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0113980-006
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:44:02 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:44:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	93015	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.224	7.230	-0.006	86	195432	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.139	9.138	0.001	95	207653	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.383	4.383	0.000	94	164104	25.0	23.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.639	4.639	0.000	99	83937	25.0	23.2	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	93	435132	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.181	8.181	0.000	96	155711	25.0	25.7	
10 Dichlorodifluoromethane	85	1.171	1.170	0.001	99	169344	25.0	21.8	
12 Chloromethane	50	1.335	1.335	0.000	99	248504	25.0	21.9	
13 Vinyl chloride	62	1.421	1.420	0.001	98	208662	25.0	24.2	
144 Butadiene	54	1.439	1.433	0.006	90	208431	25.0	25.8	
14 Bromomethane	94	1.719	1.713	0.006	91	121048	25.0	23.5	
15 Chloroethane	64	1.780	1.780	0.000	98	93063	25.0	23.0	
16 Dichlorofluoromethane	67	1.994	1.993	0.001	97	270155	25.0	27.9	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	98	214121	25.0	27.1	
18 Ethyl ether	59	2.256	2.256	0.000	96	124893	25.0	24.1	
20 Acrolein	56	2.420	2.420	0.000	99	74294	125.0	115.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.463	2.457	0.006	94	158332	25.0	27.8	
22 1,1-Dichloroethene	96	2.463	2.463	0.000	95	140998	25.0	28.7	
23 Acetone	43	2.567	2.567	0.000	99	290118	125.0	124.9	
25 Iodomethane	142	2.615	2.609	0.006	99	321280	25.0	26.2	
26 Carbon disulfide	76	2.652	2.646	0.006	100	472804	25.0	28.3	
28 3-Chloro-1-propene	41	2.798	2.798	0.000	90	242226	25.0	25.8	
27 Methyl acetate	43	2.847	2.847	0.000	100	287864	50.0	53.3	
30 Methylene Chloride	84	2.932	2.932	0.000	99	158553	25.0	25.6	
31 2-Methyl-2-propanol	59	3.091	3.091	0.000	99	221974	250.0	286.5	
32 Methyl tert-butyl ether	73	3.128	3.127	0.001	98	379307	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.140	3.140	0.000	94	149574	25.0	26.5	
33 Acrylonitrile	53	3.182	3.182	0.000	98	730095	250.0	271.8	
35 Hexane	57	3.317	3.316	0.001	94	219178	25.0	29.4	
39 1,1-Dichloroethane	63	3.512	3.511	0.001	96	281932	25.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.560	3.560	0.000	97	668799	50.0	56.2	
44 2,2-Dichloropropane	77	3.963	3.963	0.000	92	145826	25.0	24.4	
45 cis-1,2-Dichloroethene	96	3.993	3.993	0.000	85	161635	25.0	25.7	
43 2-Butanone (MEK)	43	4.018	4.017	0.001	98	431257	125.0	140.1	
48 Chlorobromomethane	128	4.188	4.188	0.000	97	97876	25.0	25.3	
49 Tetrahydrofuran	42	4.207	4.206	0.001	90	113671	50.0	55.1	
50 Chloroform	83	4.255	4.255	0.000	95	271579	25.0	24.7	
51 1,1,1-Trichloroethane	97	4.353	4.353	0.000	98	220144	25.0	27.6	
52 Cyclohexane	56	4.365	4.365	0.000	96	266122	25.0	28.7	
55 Carbon tetrachloride	117	4.469	4.469	0.000	98	206787	25.0	29.8	
54 1,1-Dichloropropene	75	4.481	4.481	0.000	93	188140	25.0	26.8	
57 Benzene	78	4.652	4.652	0.000	96	505717	25.0	26.4	
53 Isobutyl alcohol	43	4.652	4.652	0.000	93	217434	625.0	817.0	
58 1,2-Dichloroethane	62	4.700	4.700	0.000	97	224174	25.0	24.3	
59 n-Heptane	43	4.792	4.798	-0.006	96	210667	25.0	29.4	
62 Trichloroethene	95	5.145	5.145	0.000	96	152113	25.0	26.5	
64 Methylcyclohexane	83	5.249	5.249	0.000	97	218551	25.0	27.9	
65 1,2-Dichloropropane	63	5.341	5.340	0.001	95	149452	25.0	27.2	
66 1,4-Dioxane	88	5.450	5.450	0.000	38	26491	500.0	589.0	
67 Dibromomethane	93	5.450	5.450	0.000	95	108728	25.0	25.4	
68 Dichlorobromomethane	83	5.566	5.566	0.000	98	198868	25.0	27.5	
69 2-Chloroethyl vinyl ether	63	5.786	5.785	0.001	92	99617	25.0	30.8	
72 cis-1,3-Dichloropropene	75	5.895	5.895	0.000	93	211138	25.0	28.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.000	98	871997	125.0	146.6	
74 Toluene	92	6.127	6.127	0.000	98	304644	25.0	27.3	
77 trans-1,3-Dichloropropene	75	6.340	6.340	0.000	96	187397	25.0	29.3	
75 Ethyl methacrylate	69	6.365	6.365	0.000	93	153514	25.0	33.1	
79 1,1,2-Trichloroethane	83	6.487	6.487	0.000	93	110235	25.0	28.1	
81 Tetrachloroethene	166	6.548	6.547	0.001	97	159222	25.0	27.6	
82 1,3-Dichloropropane	76	6.615	6.615	0.000	93	193788	25.0	28.3	
80 2-Hexanone	43	6.651	6.651	0.000	98	575163	125.0	160.6	
83 Chlorodibromomethane	129	6.798	6.797	0.001	90	170320	25.0	30.1	
84 Ethylene Dibromide	107	6.889	6.889	0.000	99	150273	25.0	28.2	
87 Chlorobenzene	112	7.249	7.249	0.000	98	356448	25.0	27.1	
88 Ethylbenzene	91	7.316	7.316	0.000	99	563043	25.0	28.5	
89 1,1,1,2-Tetrachloroethane	131	7.322	7.322	0.000	97	145420	25.0	28.2	
90 m-Xylene & p-Xylene	106	7.407	7.407	0.000	99	219252	25.0	27.7	
91 o-Xylene	106	7.736	7.736	0.000	97	226325	25.0	26.8	
92 Styrene	104	7.755	7.755	0.000	96	355830	25.0	28.1	
95 Bromoform	173	7.950	7.950	0.000	96	118177	25.0	33.0	
94 Isopropylbenzene	105	8.023	8.023	0.000	96	570636	25.0	26.5	
101 Bromobenzene	156	8.309	8.309	0.000	88	173408	25.0	27.2	
97 1,1,2,2-Tetrachloroethane	83	8.328	8.334	-0.006	95	190174	25.0	27.4	
99 N-Propylbenzene	91	8.358	8.364	-0.006	99	678817	25.0	27.7	
100 1,2,3-Trichloropropane	110	8.364	8.364	0.000	87	48982	25.0	27.6	
98 trans-1,4-Dichloro-2-butene	53	8.370	8.370	0.000	79	39811	25.0	23.1	
103 2-Chlorotoluene	126	8.456	8.456	0.000	97	149703	25.0	26.6	
102 1,3,5-Trimethylbenzene	105	8.505	8.504	0.001	94	483557	25.0	27.0	
105 4-Chlorotoluene	126	8.547	8.547	0.000	96	149720	25.0	28.0	
106 tert-Butylbenzene	134	8.773	8.773	0.000	94	99122	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	8.822	8.821	0.001	96	490722	25.0	26.2	
109 sec-Butylbenzene	105	8.956	8.956	0.000	95	635301	25.0	26.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	9.072	9.071	0.001	97	560756	25.0	26.8	
111 1,3-Dichlorobenzene	146	9.084	9.084	0.000	99	303959	25.0	27.0	
113 1,4-Dichlorobenzene	146	9.157	9.157	0.000	96	307418	25.0	26.7	
115 n-Butylbenzene	91	9.419	9.419	0.000	98	497856	25.0	27.1	
116 1,2-Dichlorobenzene	146	9.480	9.480	0.000	99	303789	25.0	25.8	
117 1,2-Dibromo-3-Chloropropane	75	10.157	10.157	0.000	88	34703	25.0	28.2	
119 1,2,4-Trichlorobenzene	180	10.821	10.821	0.000	94	241389	25.0	24.6	
120 Hexachlorobutadiene	225	10.925	10.925	0.000	98	112613	25.0	26.1	
121 Naphthalene	128	11.028	11.034	-0.006	97	609658	25.0	25.2	
122 1,2,3-Trichlorobenzene	180	11.230	11.230	0.000	96	237096	25.0	24.0	

QC Flag Legend

Processing Flags

Reagents:

GAS CORP mix_00587	Amount Added: 12.50	Units: uL	
8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added: 1.00	Units: uL	Run Reagent

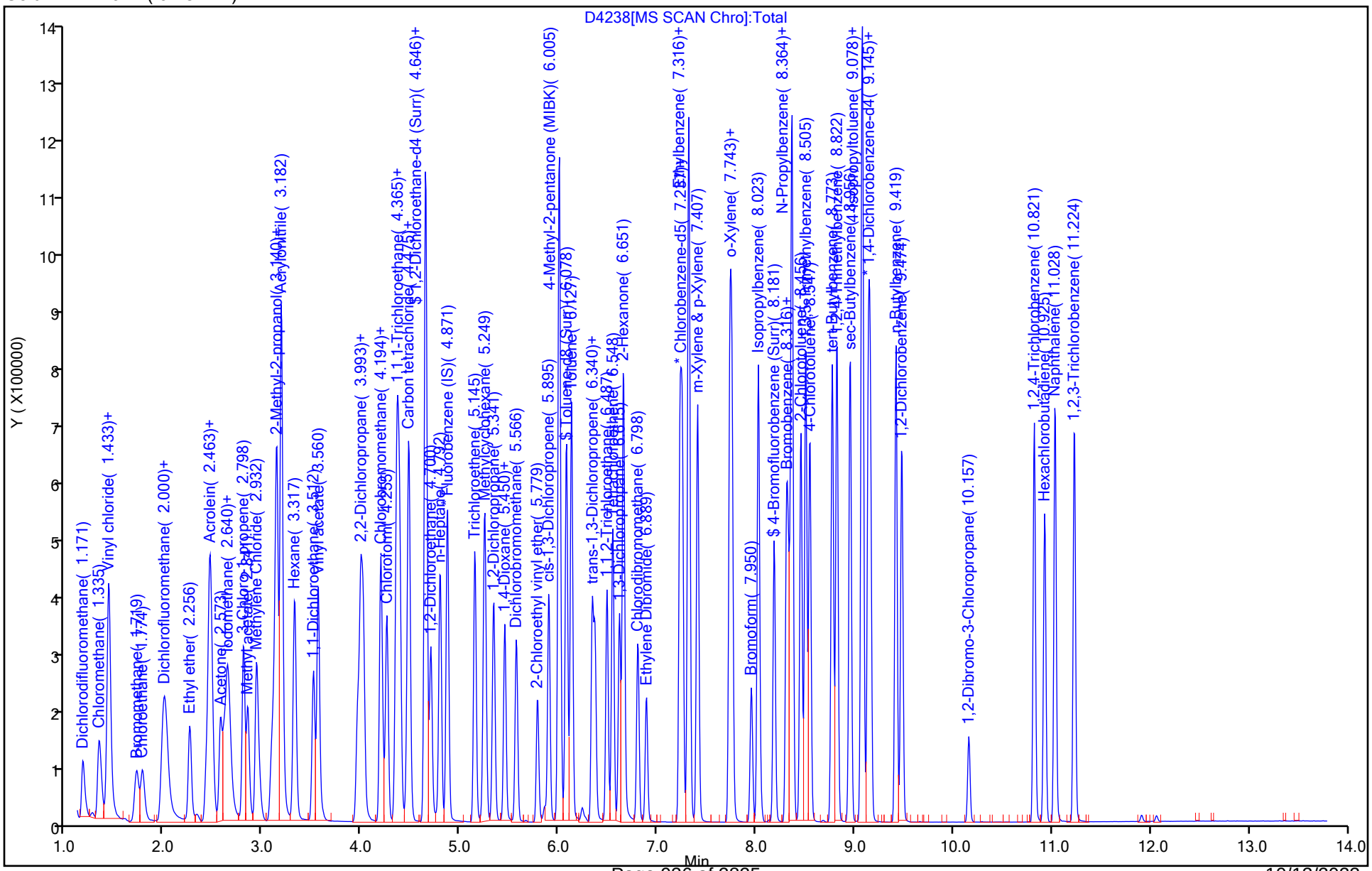
Report Date: 27-Sep-2023 07:44:35 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4238.d

Injection Date:	26-Sep-2023 22:20:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D4238.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 26-Sep-2023 22:20:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0113980-006
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230926-113980.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 07:44:02 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 07:44:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.9	95.54
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.2	92.68
$ 5 Toluene-d8 (Surr)	25.0	24.5	97.81
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.7	102.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685139/6

Matrix: Water | Lab File ID: D4257.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 10:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.3		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28.7		1.0	0.31
75-34-3	1,1-Dichloroethane	26.0		1.0	0.38
75-35-4	1,1-Dichloroethene	28.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.9		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	25.7		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.2		1.0	0.79
107-06-2	1,2-Dichloroethane	23.5		1.0	0.21
78-87-5	1,2-Dichloropropane	26.7		1.0	0.72
541-73-1	1,3-Dichlorobenzene	26.6		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.6		1.0	0.84
78-93-3	2-Butanone (MEK)	132		10	1.3
591-78-6	2-Hexanone	137		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	132		5.0	2.1
67-64-1	Acetone	128		10	3.0
71-43-2	Benzene	26.6		1.0	0.41
75-27-4	Bromodichloromethane	27.3		1.0	0.39
75-25-2	Bromoform	31.5		1.0	0.26
74-83-9	Bromomethane	24.5		1.0	0.69
75-15-0	Carbon disulfide	28.9		1.0	0.19
56-23-5	Carbon tetrachloride	29.1		1.0	0.27
108-90-7	Chlorobenzene	27.1		1.0	0.75
124-48-1	Dibromochloromethane	29.8		1.0	0.32
75-00-3	Chloroethane	23.1		1.0	0.32
67-66-3	Chloroform	25.0		1.0	0.34
74-87-3	Chloromethane	21.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	28.3		1.0	0.36
110-82-7	Cyclohexane	28.8		1.0	0.18
75-71-8	Dichlorodifluoromethane	21.7		1.0	0.68
100-41-4	Ethylbenzene	28.5		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685139/6

Matrix: Water | Lab File ID: D4257.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 10:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	27.3		1.0	0.73
98-82-8	Isopropylbenzene	27.4		1.0	0.79
79-20-9	Methyl acetate	50.7		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.6		1.0	0.16
108-87-2	Methylcyclohexane	27.8		1.0	0.16
75-09-2	Methylene Chloride	25.5		1.0	0.44
100-42-5	Styrene	27.9		1.0	0.73
127-18-4	Tetrachloroethene	27.2		1.0	0.36
108-88-3	Toluene	27.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	29.3		1.0	0.37
79-01-6	Trichloroethene	26.6		1.0	0.46
75-69-4	Trichlorofluoromethane	27.2		1.0	0.88
75-01-4	Vinyl chloride	24.6		1.0	0.90
1330-20-7	Xylenes, Total	55.2		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4257.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Sep-2023 10:44:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0113984-006
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 09:44:01 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 12:01:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	92655	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	86	194269	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.139	9.139	0.000	94	201466	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.390	4.383	0.007	94	164423	25.0	24.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.639	0.007	100	85085	25.0	23.6	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	439400	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.182	8.181	0.001	96	155939	25.0	25.9	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	168342	25.0	21.7	
12 Chloromethane	50	1.341	1.341	0.000	99	243982	25.0	21.5	
13 Vinyl chloride	62	1.427	1.427	0.000	98	210649	25.0	24.6	
144 Butadiene	54	1.439	1.439	0.000	90	202748	25.0	25.2	
14 Bromomethane	94	1.719	1.713	0.006	91	125903	25.0	24.5	
15 Chloroethane	64	1.780	1.780	0.000	98	93210	25.0	23.1	
16 Dichlorofluoromethane	67	1.994	1.994	0.000	97	271208	25.0	28.1	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	98	214175	25.0	27.2	
18 Ethyl ether	59	2.256	2.256	0.000	97	116843	25.0	22.7	
20 Acrolein	56	2.427	2.420	0.007	100	75159	125.0	116.7	
22 1,1-Dichloroethene	96	2.463	2.457	0.006	94	140115	25.0	28.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.463	2.463	0.000	95	162701	25.0	28.7	
23 Acetone	43	2.573	2.567	0.006	99	297128	125.0	128.4	
25 Iodomethane	142	2.616	2.609	0.007	99	321712	25.0	26.3	
26 Carbon disulfide	76	2.652	2.646	0.006	100	480029	25.0	28.9	
28 3-Chloro-1-propene	41	2.805	2.798	0.006	90	249337	25.0	26.7	
27 Methyl acetate	43	2.847	2.847	0.000	99	272439	50.0	50.7	
30 Methylene Chloride	84	2.933	2.932	0.001	99	156969	25.0	25.5	
31 2-Methyl-2-propanol	59	3.091	3.091	0.000	99	212842	250.0	275.8	
32 Methyl tert-butyl ether	73	3.128	3.128	0.000	98	377005	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.146	3.140	0.006	94	149313	25.0	26.5	
33 Acrylonitrile	53	3.189	3.182	0.007	98	687359	250.0	256.9	
35 Hexane	57	3.323	3.323	0.000	94	229403	25.0	30.9	
39 1,1-Dichloroethane	63	3.512	3.512	0.000	97	285494	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.560	3.560	0.000	97	667360	50.0	56.3	
44 2,2-Dichloropropane	77	3.963	3.963	0.000	93	166610	25.0	28.0	
45 cis-1,2-Dichloroethene	96	3.993	3.993	0.000	82	164855	25.0	26.4	
43 2-Butanone (MEK)	43	4.018	4.018	0.000	98	404023	125.0	131.7	
48 Chlorobromomethane	128	4.194	4.188	0.006	97	97254	25.0	25.2	
49 Tetrahydrofuran	42	4.207	4.207	0.000	90	103206	50.0	50.2	
50 Chloroform	83	4.255	4.255	0.000	95	274152	25.0	25.0	
51 1,1,1-Trichloroethane	97	4.353	4.353	0.000	98	221668	25.0	27.9	
52 Cyclohexane	56	4.365	4.365	0.000	96	265842	25.0	28.8	
55 Carbon tetrachloride	117	4.469	4.469	0.000	98	201166	25.0	29.1	
54 1,1-Dichloropropene	75	4.481	4.481	0.000	93	186645	25.0	26.7	
57 Benzene	78	4.652	4.652	0.000	96	507657	25.0	26.6	
53 Isobutyl alcohol	43	4.652	4.652	0.000	95	197450	625.0	744.8	
58 1,2-Dichloroethane	62	4.700	4.700	0.000	97	216086	25.0	23.5	
59 n-Heptane	43	4.798	4.798	0.000	97	221091	25.0	31.0	
62 Trichloroethene	95	5.146	5.145	0.001	96	152021	25.0	26.6	
64 Methylcyclohexane	83	5.249	5.249	0.000	97	217161	25.0	27.8	
65 1,2-Dichloropropane	63	5.341	5.340	0.001	95	146296	25.0	26.7	
66 1,4-Dioxane	88	5.450	5.450	0.000	37	28690	500.0	641.7	
67 Dibromomethane	93	5.450	5.450	0.000	95	105689	25.0	24.8	
68 Dichlorobromomethane	83	5.566	5.566	0.000	97	196508	25.0	27.3	
69 2-Chloroethyl vinyl ether	63	5.786	5.786	0.000	92	91873	25.0	28.5	
72 cis-1,3-Dichloropropene	75	5.895	5.895	0.000	93	212118	25.0	28.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.000	98	780239	125.0	131.9	
74 Toluene	92	6.127	6.127	0.000	98	304680	25.0	27.5	
77 trans-1,3-Dichloropropene	75	6.340	6.340	0.000	96	186142	25.0	29.3	
75 Ethyl methacrylate	69	6.365	6.365	0.000	93	140303	25.0	30.4	
79 1,1,2-Trichloroethane	83	6.487	6.487	0.000	93	102442	25.0	26.3	
81 Tetrachloroethene	166	6.548	6.548	0.000	97	155696	25.0	27.2	
82 1,3-Dichloropropane	76	6.615	6.615	0.000	94	182606	25.0	26.9	
80 2-Hexanone	43	6.657	6.657	0.000	98	489399	125.0	137.4	
83 Chlorodibromomethane	129	6.804	6.798	0.006	90	167771	25.0	29.8	
84 Ethylene Dibromide	107	6.889	6.889	0.000	98	144519	25.0	27.3	
87 Chlorobenzene	112	7.249	7.249	0.000	97	355273	25.0	27.1	
88 Ethylbenzene	91	7.316	7.316	0.000	99	560215	25.0	28.5	
89 1,1,1,2-Tetrachloroethane	131	7.322	7.322	0.000	97	146987	25.0	28.7	
90 m-Xylene & p-Xylene	106	7.407	7.407	0.000	99	221820	25.0	28.2	
91 o-Xylene	106	7.736	7.736	0.000	97	225925	25.0	27.0	
92 Styrene	104	7.755	7.755	0.000	95	351529	25.0	27.9	
95 Bromoform	173	7.950	7.950	0.000	96	112333	25.0	31.5	
94 Isopropylbenzene	105	8.023	8.023	0.000	96	571791	25.0	27.4	
101 Bromobenzene	156	8.310	8.309	0.001	88	171048	25.0	27.6	
97 1,1,2,2-Tetrachloroethane	83	8.334	8.334	0.000	95	177131	25.0	26.3	
99 N-Propylbenzene	91	8.364	8.364	0.000	99	674924	25.0	28.4	
100 1,2,3-Trichloropropane	110	8.364	8.364	0.000	86	44806	25.0	26.1	
98 trans-1,4-Dichloro-2-butene	53	8.370	8.370	0.000	81	42827	25.0	25.6	
103 2-Chlorotoluene	126	8.456	8.456	0.000	97	149806	25.0	27.4	
102 1,3,5-Trimethylbenzene	105	8.505	8.505	0.001	94	479694	25.0	27.6	
105 4-Chlorotoluene	126	8.547	8.547	0.000	96	146263	25.0	28.1	
106 tert-Butylbenzene	134	8.773	8.773	0.000	94	96823	25.0	27.0	
107 1,2,4-Trimethylbenzene	105	8.822	8.822	0.000	97	487964	25.0	26.8	
109 sec-Butylbenzene	105	8.956	8.956	0.000	94	623399	25.0	27.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	9.072	9.072	0.001	97	539645	25.0	26.6	
111 1,3-Dichlorobenzene	146	9.084	9.084	0.000	99	291033	25.0	26.6	
113 1,4-Dichlorobenzene	146	9.157	9.157	0.000	96	297036	25.0	26.6	
115 n-Butylbenzene	91	9.419	9.419	0.000	98	486227	25.0	27.3	
116 1,2-Dichlorobenzene	146	9.480	9.480	0.000	99	299366	25.0	26.2	
117 1,2-Dibromo-3-Chloropropane	75	10.157	10.157	0.000	89	30750	25.0	25.7	
119 1,2,4-Trichlorobenzene	180	10.821	10.821	0.000	94	236920	25.0	24.9	
120 Hexachlorobutadiene	225	10.925	10.931	-0.006	97	112294	25.0	26.8	
121 Naphthalene	128	11.035	11.035	0.001	97	573663	25.0	24.5	
122 1,2,3-Trichlorobenzene	180	11.230	11.230	0.000	96	226542	25.0	23.7	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
GAS CORP mix_00587	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added: 1.00	Units: uL	Run Reagent

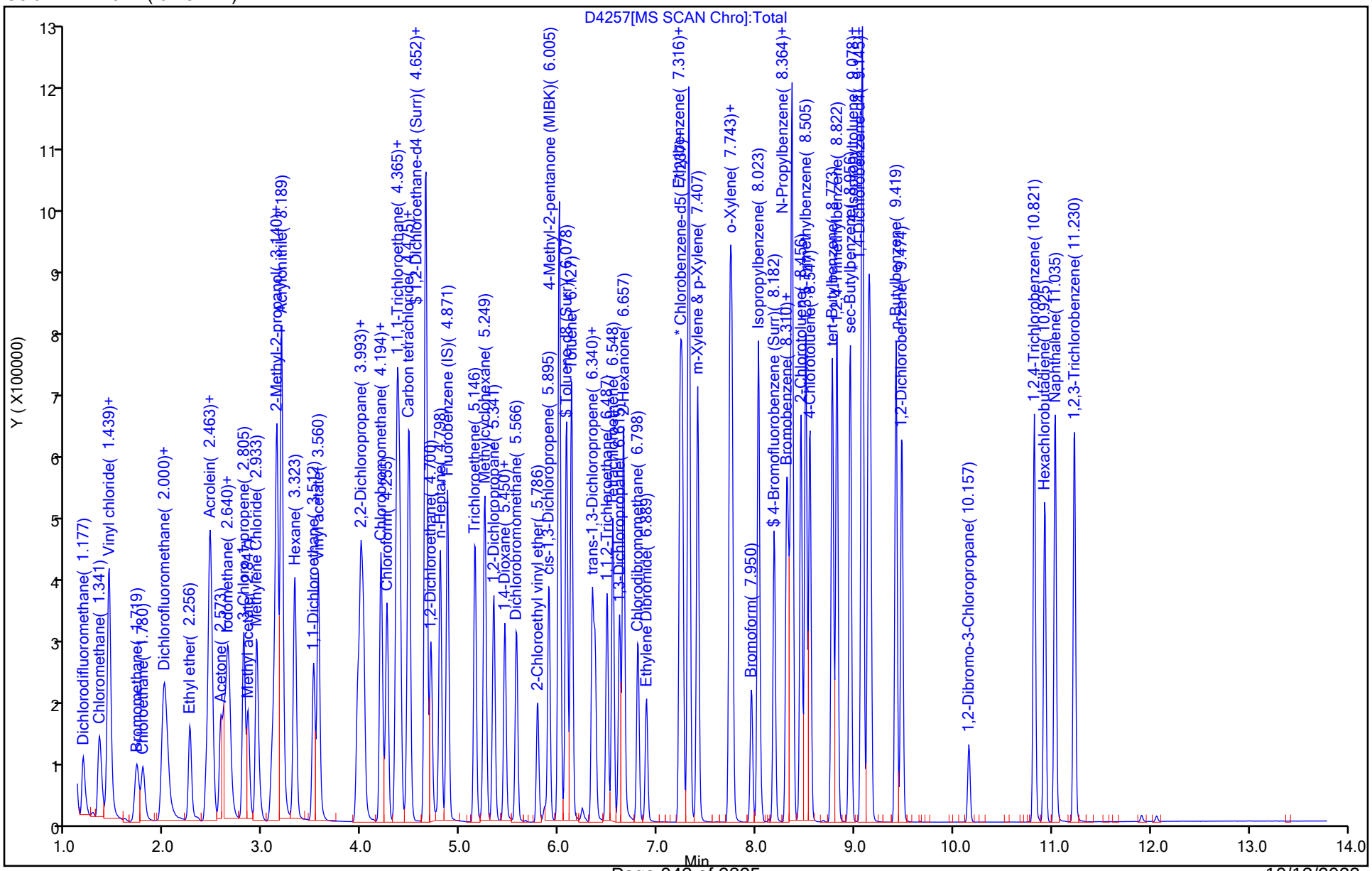
Report Date: 27-Sep-2023 12:01:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4257.d

Injection Date:	27-Sep-2023 10:44:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4257.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Sep-2023 10:44:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0113984-006
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 09:44:01 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: QR3Z Date: 27-Sep-2023 12:01:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.0	96.10
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.6	94.31
$ 5 Toluene-d8 (Surr)	25.0	24.8	99.36
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.9	103.67

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685187/7

Matrix: Water | Lab File ID: L1012.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 13:37

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.5		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.9		1.0	0.31
75-34-3	1,1-Dichloroethane	25.1		1.0	0.38
75-35-4	1,1-Dichloroethene	26.1		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.4		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.3		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.7		1.0	0.79
107-06-2	1,2-Dichloroethane	24.6		1.0	0.21
78-87-5	1,2-Dichloropropane	25.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.1		1.0	0.84
78-93-3	2-Butanone (MEK)	105		10	1.3
591-78-6	2-Hexanone	104		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	103		5.0	2.1
67-64-1	Acetone	117		10	3.0
71-43-2	Benzene	25.0		1.0	0.41
75-27-4	Bromodichloromethane	26.5		1.0	0.39
75-25-2	Bromoform	22.4		1.0	0.26
74-83-9	Bromomethane	24.5		1.0	0.69
75-15-0	Carbon disulfide	23.4		1.0	0.19
56-23-5	Carbon tetrachloride	27.9		1.0	0.27
108-90-7	Chlorobenzene	24.2		1.0	0.75
124-48-1	Dibromochloromethane	27.2		1.0	0.32
75-00-3	Chloroethane	25.4		1.0	0.32
67-66-3	Chloroform	24.6		1.0	0.34
74-87-3	Chloromethane	23.4		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.4		1.0	0.36
110-82-7	Cyclohexane	26.0		1.0	0.18
75-71-8	Dichlorodifluoromethane	25.6		1.0	0.68
100-41-4	Ethylbenzene	24.3		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685187/7

Matrix: Water | Lab File ID: L1012.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 13:37

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	24.3		1.0	0.73
98-82-8	Isopropylbenzene	25.4		1.0	0.79
79-20-9	Methyl acetate	43.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.5		1.0	0.16
108-87-2	Methylcyclohexane	26.3		1.0	0.16
75-09-2	Methylene Chloride	25.5		1.0	0.44
100-42-5	Styrene	24.7		1.0	0.73
127-18-4	Tetrachloroethene	24.7		1.0	0.36
108-88-3	Toluene	24.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.9		1.0	0.37
79-01-6	Trichloroethene	25.6		1.0	0.46
75-69-4	Trichlorofluoromethane	24.5		1.0	0.88
75-01-4	Vinyl chloride	26.4		1.0	0.90
1330-20-7	Xylenes, Total	49.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1012.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Sep-2023 13:37:40 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0113994-007
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 14:49:09 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: WLL8 Date: 27-Sep-2023 14:49:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.666	5.667	0.000	99	135082	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.547	8.544	0.003	86	543161	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.952	10.949	0.003	95	280520	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	88	177714	25.0	25.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.419	5.419	0.000	99	213951	25.0	24.9	
$ 6 Toluene-d8 (Surr)	98	7.091	7.088	0.003	93	674821	25.0	24.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.788	9.785	0.003	98	188644	25.0	24.1	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	99	306276	25.0	25.6	
13 Chloromethane	50	1.937	1.940	-0.003	99	316893	25.0	23.4	
14 Vinyl chloride	62	2.059	2.052	0.007	98	227139	25.0	26.4	
15 Butadiene	54	2.078	2.079	0.000	96	231075	25.0	26.6	
18 Bromomethane	94	2.422	2.419	0.003	93	113134	25.0	24.5	
19 Chloroethane	64	2.483	2.483	0.000	99	128539	25.0	25.4	
20 Dichlorofluoromethane	67	2.705	2.705	0.000	97	305786	25.0	26.0	
21 Trichlorofluoromethane	101	2.728	2.724	0.004	97	270696	25.0	24.5	
26 Ethyl ether	59	2.949	2.950	-0.001	95	201254	25.0	24.8	
28 Acrolein	56	3.129	3.130	-0.001	100	108333	125.0	119.6	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.158	3.159	-0.001	94	207291	25.0	26.9	
30 1,1-Dichloroethene	96	3.187	3.187	0.000	98	198800	25.0	26.1	
31 Acetone	43	3.268	3.268	0.000	99	389941	125.0	116.8	
33 Iodomethane	142	3.358	3.358	0.000	99	325344	25.0	25.8	
35 Carbon disulfide	76	3.406	3.409	-0.003	100	476250	25.0	23.4	
37 3-Chloro-1-propene	41	3.502	3.503	-0.001	91	377914	25.0	26.4	
38 Methyl acetate	43	3.525	3.525	0.000	98	460744	50.0	43.8	
39 Methylene Chloride	84	3.644	3.644	0.000	96	220738	25.0	25.5	
40 2-Methyl-2-propanol	59	3.737	3.741	-0.004	99	188851	250.0	207.6	
41 Methyl tert-butyl ether	73	3.808	3.805	0.003	96	631806	25.0	24.5	
42 trans-1,2-Dichloroethene	96	3.837	3.837	0.000	99	217417	25.0	25.3	
44 Acrylonitrile	53	3.879	3.876	0.003	98	997828	250.0	202.0	
47 Hexane	57	3.998	3.995	0.003	94	348539	25.0	25.9	
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	374273	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.229	4.226	0.003	97	1105336	50.0	48.8	
56 2,2-Dichloropropane	77	4.682	4.683	-0.001	87	169922	25.0	26.0	
58 cis-1,2-Dichloroethene	96	4.708	4.708	0.000	81	234257	25.0	25.1	
57 2-Butanone (MEK)	43	4.718	4.718	0.000	100	690708	125.0	105.2	
60 Chlorobromomethane	128	4.927	4.924	0.003	96	113113	25.0	24.8	
61 Tetrahydrofuran	42	4.943	4.943	0.000	90	194276	50.0	40.6	
62 Chloroform	83	4.978	4.975	0.003	93	364674	25.0	24.6	
64 1,1,1-Trichloroethane	97	5.110	5.107	0.003	99	288840	25.0	26.0	
65 Cyclohexane	56	5.126	5.126	0.000	94	415638	25.0	26.0	
66 Carbon tetrachloride	117	5.239	5.236	0.003	95	250126	25.0	27.9	
67 1,1-Dichloropropene	75	5.239	5.239	0.000	93	291161	25.0	25.7	
69 Isobutyl alcohol	43	5.364	5.361	0.003	95	295664	625.0	467.5	
70 Benzene	78	5.435	5.435	0.000	97	824426	25.0	25.0	
72 1,2-Dichloroethane	62	5.489	5.486	0.003	97	290143	25.0	24.6	
73 n-Heptane	43	5.547	5.548	-0.001	95	375339	25.0	24.5	
75 Trichloroethene	95	5.985	5.985	0.000	98	216243	25.0	25.6	
76 Methylcyclohexane	83	6.110	6.107	0.003	92	394979	25.0	26.3	
77 1,2-Dichloropropane	63	6.216	6.216	0.000	95	209930	25.0	25.2	
81 1,4-Dioxane	88	6.342	6.342	0.007	96	30317	500.0	375.0	M
82 Dibromomethane	93	6.354	6.351	0.003	96	131953	25.0	25.5	
83 Dichlorobromomethane	83	6.473	6.473	-0.001	99	248250	25.0	26.5	
84 2-Chloroethyl vinyl ether	63	6.708	6.705	0.003	93	152940	25.0	24.7	
85 cis-1,3-Dichloropropene	75	6.869	6.866	0.003	94	333732	25.0	26.4	
87 4-Methyl-2-pentanone (MIBK)	43	6.981	6.982	-0.001	98	1483888	125.0	103.5	
88 Toluene	92	7.155	7.152	0.003	98	503033	25.0	24.4	
91 trans-1,3-Dichloropropene	75	7.403	7.403	0.000	95	295411	25.0	25.9	
90 Ethyl methacrylate	69	7.409	7.409	0.000	91	286829	25.0	24.1	
93 1,1,2-Trichloroethane	83	7.596	7.596	0.000	92	158648	25.0	24.5	
94 Tetrachloroethene	166	7.676	7.673	0.003	96	207914	25.0	24.7	
95 1,3-Dichloropropane	76	7.760	7.760	0.000	96	326041	25.0	23.8	
96 2-Hexanone	43	7.788	7.785	0.003	98	1038225	125.0	103.9	
98 Chlorodibromomethane	129	8.001	7.998	0.003	90	180891	25.0	27.2	
101 Ethylene Dibromide	107	8.123	8.120	0.003	99	196618	25.0	24.3	
103 Chlorobenzene	112	8.576	8.573	0.003	99	542508	25.0	24.2	
104 Ethylbenzene	91	8.647	8.644	0.003	99	930371	25.0	24.3	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	95	185647	25.0	26.1	
106 m-Xylene & p-Xylene	106	8.763	8.760	0.003	99	368318	25.0	24.8	
107 o-Xylene	106	9.194	9.191	0.003	97	363959	25.0	24.3	
109 Styrene	104	9.219	9.216	0.003	96	576758	25.0	24.7	
110 Bromoform	173	9.493	9.490	0.003	95	117236	25.0	22.4	
111 Isopropylbenzene	105	9.563	9.566	-0.001	96	932905	25.0	25.4	
113 Bromobenzene	156	9.959	9.962	0.000	95	219871	25.0	24.4	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.978	0.000	94	279973	25.0	23.6	
114 N-Propylbenzene	91	10.010	10.010	0.003	99	1132685	25.0	25.6	
115 trans-1,4-Dichloro-2-butene	53	10.020	10.023	0.000	75	95175	25.0	24.5	
116 1,2,3-Trichloropropane	110	10.023	10.026	0.000	87	91841	25.0	23.5	
117 2-Chlorotoluene	126	10.139	10.139	0.003	97	216209	25.0	24.9	
118 1,3,5-Trimethylbenzene	105	10.187	10.187	0.003	94	782263	25.0	25.5	
119 4-Chlorotoluene	91	10.251	10.251	0.003	98	664595	25.0	25.2	
120 tert-Butylbenzene	134	10.518	10.522	0.000	93	173035	25.0	25.2	
121 1,2,4-Trimethylbenzene	105	10.573	10.576	0.000	97	804347	25.0	25.1	
122 sec-Butylbenzene	105	10.731	10.731	0.004	94	1003531	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
123 4-Isopropyltoluene	119	10.862	10.866	-0.001	97	854501	25.0	25.3	
124 1,3-Dichlorobenzene	146	10.888	10.891	0.000	97	426327	25.0	24.4	
126 1,4-Dichlorobenzene	146	10.975	10.978	0.000	94	431927	25.0	24.1	
127 n-Butylbenzene	91	11.248	11.252	0.000	98	801002	25.0	25.4	
128 1,2-Dichlorobenzene	146	11.329	11.332	0.000	97	417277	25.0	23.7	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.033	0.000	87	55171	25.0	23.3	
130 1,2,4-Trichlorobenzene	180	12.660	12.660	0.003	95	305863	25.0	23.4	
131 Hexachlorobutadiene	225	12.747	12.747	0.003	97	128104	25.0	25.6	
132 Naphthalene	128	12.869	12.869	0.003	97	977094	25.0	22.7	
133 1,2,3-Trichlorobenzene	180	13.062	13.066	0.000	95	291500	25.0	23.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

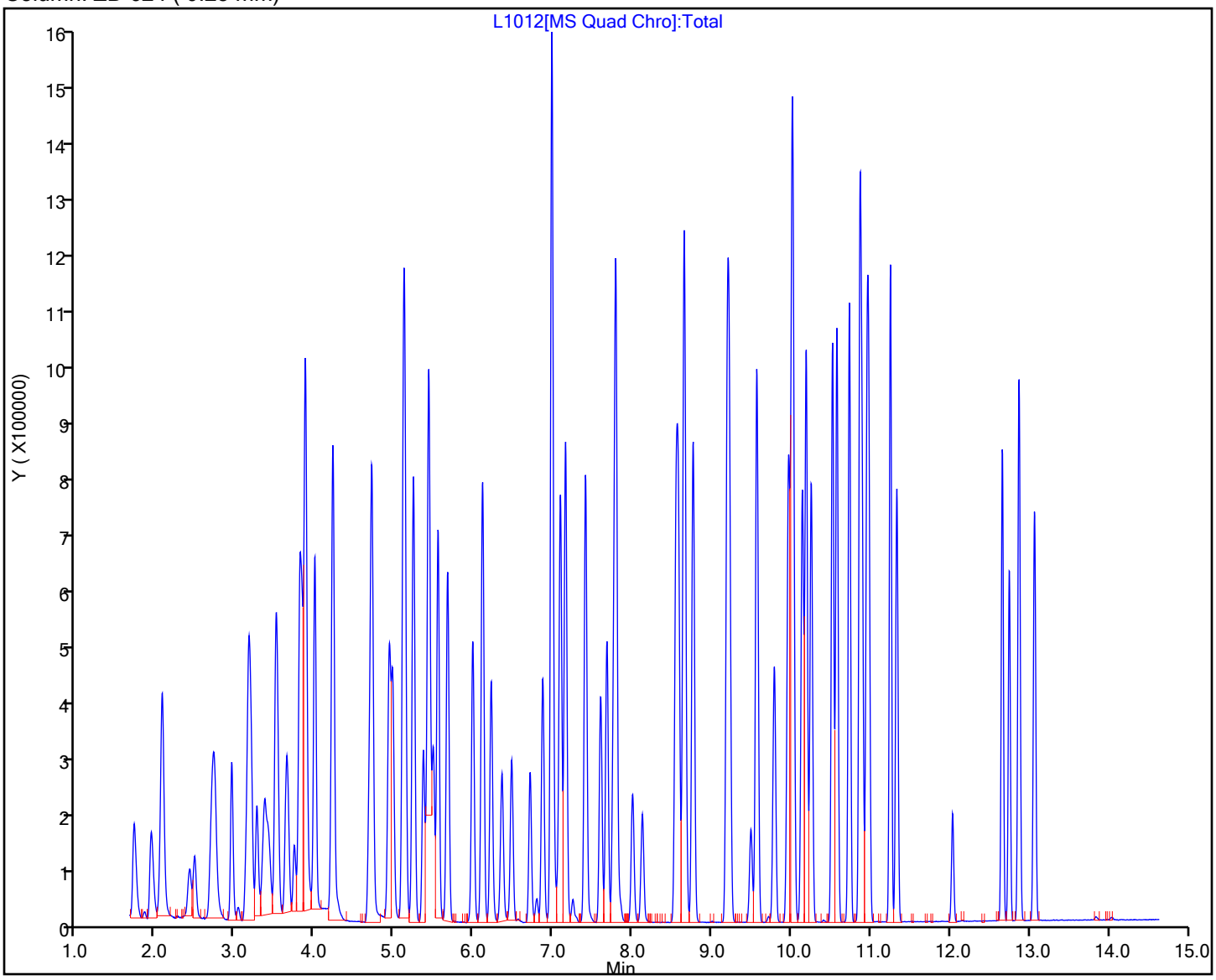
Reagents:

8260 CORP mix_00244	Amount Added:	12.50	Units: uL	
GAS CORP mix_00587	Amount Added:	12.50	Units: uL	
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 27-Sep-2023 14:49:22 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1012.D
Injection Date: 27-Sep-2023 13:37:40 Instrument ID: HP5977L
Lims ID: LCS
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1012.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Sep-2023 13:37:40 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0113994-007
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Sep-2023 14:49:09 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: WLL8 Date: 27-Sep-2023 14:49:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.6	102.35
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	24.9	99.72
$ 6 Toluene-d8 (Surr)	25.0	24.1	96.52
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.1	96.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685418/6

Matrix: Water | Lab File ID: L1073.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 01:13

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.3		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.3		1.0	0.31
75-34-3	1,1-Dichloroethane	24.2		1.0	0.38
75-35-4	1,1-Dichloroethene	24.5		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.8		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	30.1		1.0	0.39
95-50-1	1,2-Dichlorobenzene	25.2		1.0	0.79
107-06-2	1,2-Dichloroethane	25.5		1.0	0.21
78-87-5	1,2-Dichloropropane	24.5		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.9		1.0	0.84
78-93-3	2-Butanone (MEK)	154		10	1.3
591-78-6	2-Hexanone	128		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	131		5.0	2.1
67-64-1	Acetone	195		10	3.0
71-43-2	Benzene	24.4		1.0	0.41
75-27-4	Bromodichloromethane	26.6		1.0	0.39
75-25-2	Bromoform	23.1		1.0	0.26
74-83-9	Bromomethane	23.3		1.0	0.69
75-15-0	Carbon disulfide	20.4		1.0	0.19
56-23-5	Carbon tetrachloride	26.7		1.0	0.27
108-90-7	Chlorobenzene	24.3		1.0	0.75
124-48-1	Dibromochloromethane	27.6		1.0	0.32
75-00-3	Chloroethane	23.7		1.0	0.32
67-66-3	Chloroform	24.3		1.0	0.34
74-87-3	Chloromethane	21.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.5		1.0	0.36
110-82-7	Cyclohexane	24.6		1.0	0.18
75-71-8	Dichlorodifluoromethane	23.2		1.0	0.68
100-41-4	Ethylbenzene	24.2		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685418/6

Matrix: Water | Lab File ID: L1073.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/29/2023 01:13

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685418 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	25.7		1.0	0.73
98-82-8	Isopropylbenzene	25.7		1.0	0.79
79-20-9	Methyl acetate	61.0		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.9		1.0	0.16
108-87-2	Methylcyclohexane	24.9		1.0	0.16
75-09-2	Methylene Chloride	26.1		1.0	0.44
100-42-5	Styrene	24.8		1.0	0.73
127-18-4	Tetrachloroethene	24.6		1.0	0.36
108-88-3	Toluene	24.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.8		1.0	0.37
79-01-6	Trichloroethene	25.0		1.0	0.46
75-69-4	Trichlorofluoromethane	24.2		1.0	0.88
75-01-4	Vinyl chloride	24.7		1.0	0.90
1330-20-7	Xylenes, Total	49.4		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1073.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Sep-2023 01:13:47 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0114025-006
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:28:15 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:28:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.670	0.000	99	120513	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.544	0.004	86	476869	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.953	0.000	96	249640	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.000	89	166182	25.0	26.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.422	0.000	99	216073	25.0	28.2	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.000	93	625880	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.785	0.001	97	172569	25.0	25.1	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	99	248273	25.0	23.2	
13 Chloromethane	50	1.937	1.940	-0.003	99	256076	25.0	21.2	
14 Vinyl chloride	62	2.056	2.053	0.004	98	189797	25.0	24.7	
15 Butadiene	54	2.075	2.078	-0.003	95	207208	25.0	26.8	
18 Bromomethane	94	2.416	2.413	0.003	94	95801	25.0	23.3	
19 Chloroethane	64	2.480	2.483	-0.003	99	107269	25.0	23.7	
20 Dichlorofluoromethane	67	2.699	2.705	-0.006	97	256595	25.0	24.5	
21 Trichlorofluoromethane	101	2.721	2.721	0.000	98	238426	25.0	24.2	
26 Ethyl ether	59	2.950	2.946	0.004	95	171246	25.0	23.7	
28 Acrolein	56	3.130	3.126	0.004	99	114838	125.0	142.1	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.159	3.159	0.000	95	174301	25.0	25.3	
30 1,1-Dichloroethene	96	3.188	3.191	-0.003	97	166709	25.0	24.5	
31 Acetone	43	3.271	3.268	0.003	99	579964	125.0	194.7	
33 Iodomethane	142	3.355	3.358	-0.003	100	278436	25.0	24.8	
35 Carbon disulfide	76	3.406	3.416	-0.010	99	370114	25.0	20.4	
37 3-Chloro-1-propene	41	3.503	3.499	0.004	90	306681	25.0	24.0	
38 Methyl acetate	43	3.525	3.525	0.000	99	572977	50.0	61.0	
39 Methylene Chloride	84	3.644	3.651	-0.007	96	201071	25.0	26.1	
40 2-Methyl-2-propanol	59	3.747	3.744	0.003	99	392807	250.0	483.9	
41 Methyl tert-butyl ether	73	3.808	3.808	0.000	97	617442	25.0	26.9	
42 trans-1,2-Dichloroethene	96	3.837	3.837	0.000	99	185885	25.0	24.3	
44 Acrylonitrile	53	3.882	3.879	0.003	99	1248786	250.0	283.3	
47 Hexane	57	3.995	3.995	0.000	95	277777	25.0	23.1	
50 1,1-Dichloroethane	63	4.213	4.210	0.003	96	322762	25.0	24.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.229	4.226	0.003	97	976281	50.0	48.3	
56 2,2-Dichloropropane	77	4.686	4.683	0.003	88	137411	25.0	23.6	
58 cis-1,2-Dichloroethene	96	4.709	4.705	0.004	80	206207	25.0	24.8	
57 2-Butanone (MEK)	43	4.725	4.718	0.007	99	900317	125.0	153.7	
60 Chlorobromomethane	128	4.930	4.927	0.003	97	103197	25.0	25.4	
61 Tetrahydrofuran	42	4.950	4.946	0.004	92	240505	50.0	56.3	
62 Chloroform	83	4.979	4.975	0.004	93	321649	25.0	24.3	
64 1,1,1-Trichloroethane	97	5.110	5.107	0.003	99	254121	25.0	25.6	
65 Cyclohexane	56	5.127	5.126	0.001	92	350655	25.0	24.6	
66 Carbon tetrachloride	117	5.239	5.239	0.000	79	213199	25.0	26.7	
67 1,1-Dichloropropene	75	5.239	5.239	0.000	93	250145	25.0	24.7	
69 Isobutyl alcohol	43	5.368	5.364	0.004	95	469233	625.0	831.6	
70 Benzene	78	5.435	5.432	0.003	97	716708	25.0	24.4	
72 1,2-Dichloroethane	62	5.490	5.487	0.004	97	267842	25.0	25.5	
73 n-Heptane	43	5.548	5.544	0.004	95	314897	25.0	23.0	
75 Trichloroethene	95	5.988	5.985	0.003	97	187754	25.0	25.0	
76 Methylcyclohexane	83	6.110	6.110	0.000	92	333481	25.0	24.9	
77 1,2-Dichloropropane	63	6.220	6.216	0.004	93	182080	25.0	24.5	
81 1,4-Dioxane	88	6.342	6.335	0.007	94	44975	500.0	633.6	
82 Dibromomethane	93	6.355	6.351	0.004	97	126535	25.0	27.4	
83 Dichlorobromomethane	83	6.477	6.477	0.000	99	222299	25.0	26.6	
84 2-Chloroethyl vinyl ether	63	6.708	6.708	0.000	92	146821	25.0	26.6	
85 cis-1,3-Dichloropropene	75	6.869	6.866	0.003	94	287544	25.0	25.5	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.982	0.003	98	1655788	125.0	131.5	
88 Toluene	92	7.155	7.152	0.003	98	442200	25.0	24.4	
91 trans-1,3-Dichloropropene	75	7.403	7.400	0.003	96	257841	25.0	25.8	
90 Ethyl methacrylate	69	7.413	7.409	0.004	88	268817	25.0	25.8	
93 1,1,2-Trichloroethane	83	7.599	7.596	0.003	92	143750	25.0	25.3	
94 Tetrachloroethene	166	7.676	7.673	0.003	96	182026	25.0	24.6	
95 1,3-Dichloropropane	76	7.760	7.760	0.000	95	295167	25.0	24.5	
96 2-Hexanone	43	7.792	7.789	0.003	98	1122085	125.0	127.8	
98 Chlorodibromomethane	129	8.001	7.998	0.003	90	161229	25.0	27.6	
101 Ethylene Dibromide	107	8.123	8.120	0.003	97	183154	25.0	25.7	
103 Chlorobenzene	112	8.577	8.576	0.001	95	479784	25.0	24.3	
104 Ethylbenzene	91	8.647	8.644	0.003	98	816294	25.0	24.2	
105 1,1,1,2-Tetrachloroethane	131	8.660	8.660	0.000	95	171582	25.0	27.4	
106 m-Xylene & p-Xylene	106	8.763	8.760	0.003	99	319167	25.0	24.5	
107 o-Xylene	106	9.194	9.191	0.003	97	327929	25.0	24.9	
109 Styrene	104	9.220	9.220	0.000	95	508756	25.0	24.8	
110 Bromoform	173	9.490	9.490	0.000	95	106007	25.0	23.1	
111 Isopropylbenzene	105	9.564	9.564	0.000	96	839088	25.0	25.7	
113 Bromobenzene	156	9.959	9.959	0.000	95	198473	25.0	24.7	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.972	0.003	94	280651	25.0	26.6	
114 N-Propylbenzene	91	10.011	10.007	0.004	99	985451	25.0	25.0	
115 trans-1,4-Dichloro-2-butene	53	10.024	10.023	0.001	73	77415	25.0	22.4	
116 1,2,3-Trichloropropane	110	10.027	10.027	0.000	88	91544	25.0	26.4	
117 2-Chlorotoluene	126	10.139	10.136	0.003	97	195467	25.0	25.3	
118 1,3,5-Trimethylbenzene	105	10.187	10.184	0.003	94	708821	25.0	26.0	
119 4-Chlorotoluene	91	10.249	10.248	0.001	98	591117	25.0	25.2	
120 tert-Butylbenzene	134	10.519	10.519	0.000	93	156966	25.0	25.7	
121 1,2,4-Trimethylbenzene	105	10.573	10.573	0.000	97	742416	25.0	26.0	
122 sec-Butylbenzene	105	10.731	10.731	0.000	94	909452	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
123 4-Isopropyltoluene	119	10.863	10.863	0.000	97	773843	25.0	25.7	
124 1,3-Dichlorobenzene	146	10.892	10.888	0.004	97	386393	25.0	24.8	
126 1,4-Dichlorobenzene	146	10.975	10.975	0.000	94	396974	25.0	24.9	
127 n-Butylbenzene	91	11.249	11.248	0.001	98	709506	25.0	25.3	
128 1,2-Dichlorobenzene	146	11.329	11.329	0.000	97	394542	25.0	25.2	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.030	0.000	83	63468	25.0	30.1	
130 1,2,4-Trichlorobenzene	180	12.657	12.657	0.000	95	299453	25.0	25.8	
131 Hexachlorobutadiene	225	12.744	12.744	0.000	96	111203	25.0	24.9	
132 Naphthalene	128	12.869	12.869	0.000	97	1077658	25.0	28.1	
133 1,2,3-Trichlorobenzene	180	13.062	13.065	-0.003	96	289488	25.0	26.0	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
GAS CORP mix_00588	Amount Added: 12.50	Units: uL	
L_8260_SURR_00048	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 29-Sep-2023 09:28:41 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1073.D

Injection Date: 29-Sep-2023 01:13:47 Instrument ID: HP5977L

Lims ID: LCS

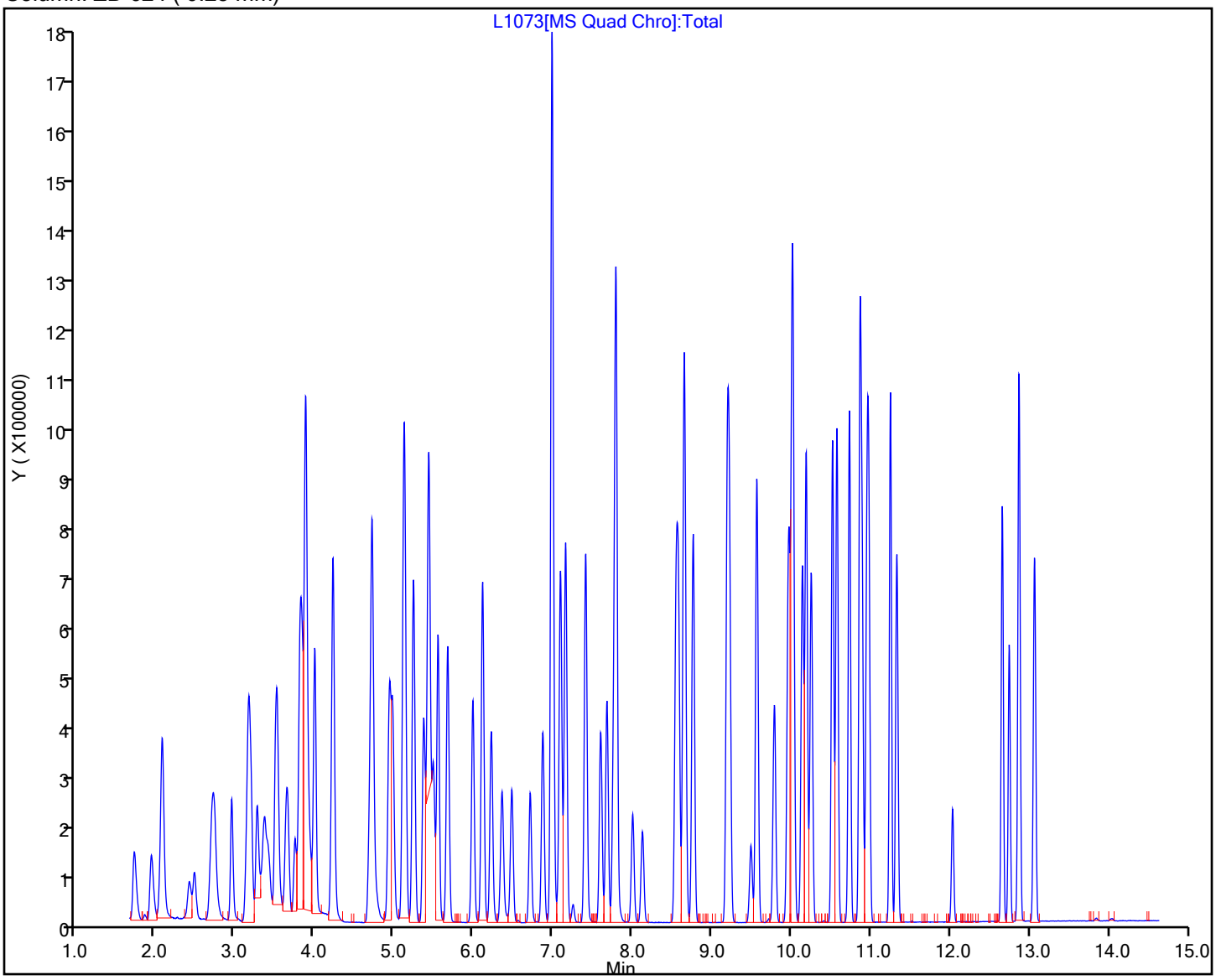
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 6

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L1073.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Sep-2023 01:13:47 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0114025-006
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230928-114025.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Sep-2023 09:28:15 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

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

First Level Reviewer: R3QB Date: 29-Sep-2023 09:28:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	26.8	107.27
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	28.2	112.88
$ 6 Toluene-d8 (Surr)	25.0	25.5	101.97
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.1	100.54

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685822/6

Matrix: Water | Lab File ID: D4456.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 16:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.8		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.0		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.2		1.0	0.31
75-34-3	1,1-Dichloroethane	24.1		1.0	0.38
75-35-4	1,1-Dichloroethene	26.3		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.7		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	28.6		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.9		1.0	0.79
107-06-2	1,2-Dichloroethane	22.8		1.0	0.21
78-87-5	1,2-Dichloropropane	25.5		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.6		1.0	0.84
78-93-3	2-Butanone (MEK)	138		10	1.3
591-78-6	2-Hexanone	157		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	143		5.0	2.1
67-64-1	Acetone	128		10	3.0
71-43-2	Benzene	24.6		1.0	0.41
75-27-4	Bromodichloromethane	25.7		1.0	0.39
75-25-2	Bromoform	31.1		1.0	0.26
74-83-9	Bromomethane	21.1		1.0	0.69
75-15-0	Carbon disulfide	26.5		1.0	0.19
56-23-5	Carbon tetrachloride	26.4		1.0	0.27
108-90-7	Chlorobenzene	25.0		1.0	0.75
124-48-1	Dibromochloromethane	28.3		1.0	0.32
75-00-3	Chloroethane	21.0		1.0	0.32
67-66-3	Chloroform	22.7		1.0	0.34
74-87-3	Chloromethane	21.4		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.7		1.0	0.36
110-82-7	Cyclohexane	26.8		1.0	0.18
75-71-8	Dichlorodifluoromethane	24.3		1.0	0.68
100-41-4	Ethylbenzene	25.9		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685822/6

Matrix: Water | Lab File ID: D4456.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2023 16:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	26.8		1.0	0.73
98-82-8	Isopropylbenzene	24.6		1.0	0.79
79-20-9	Methyl acetate	52.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.3		1.0	0.16
108-87-2	Methylcyclohexane	25.3		1.0	0.16
75-09-2	Methylene Chloride	23.5		1.0	0.44
100-42-5	Styrene	25.6		1.0	0.73
127-18-4	Tetrachloroethene	24.3		1.0	0.36
108-88-3	Toluene	24.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.8		1.0	0.37
79-01-6	Trichloroethene	23.9		1.0	0.46
75-69-4	Trichlorofluoromethane	25.0		1.0	0.88
75-01-4	Vinyl chloride	22.9		1.0	0.90
1330-20-7	Xylenes, Total	49.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4456.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Oct-2023 16:47:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0114077-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:24:49 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 18:24:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.877	4.877	0.000	98	91427	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	87	193876	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.144	0.001	94	201192	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.395	-0.006	95	158210	25.0	23.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.651	-0.005	98	84221	25.0	23.7	
$ 5 Toluene-d8 (Surr)	98	6.084	6.084	0.000	94	422216	25.0	23.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.187	8.187	0.000	95	150490	25.0	25.1	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	185860	25.0	24.3	
12 Chloromethane	50	1.347	1.341	0.006	99	239456	25.0	21.4	
13 Vinyl chloride	62	1.427	1.427	0.000	98	193507	25.0	22.9	
144 Butadiene	54	1.445	1.445	0.000	89	187173	25.0	23.6	
14 Bromomethane	94	1.725	1.719	0.006	91	106693	25.0	21.1	
15 Chloroethane	64	1.792	1.780	0.012	98	83665	25.0	21.0	
16 Dichlorofluoromethane	67	2.012	2.000	0.012	97	244710	25.0	25.7	
17 Trichlorofluoromethane	101	2.012	2.006	0.006	99	194256	25.0	25.0	
18 Ethyl ether	59	2.262	2.262	0.000	97	116090	25.0	22.8	
20 Acrolein	56	2.426	2.426	0.000	100	63706	125.0	100.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.475	2.469	0.006	69	146952	25.0	26.2	
22 1,1-Dichloroethene	96	2.475	2.469	0.006	94	127096	25.0	26.3	
23 Acetone	43	2.579	2.573	0.006	99	293319	125.0	128.4	
25 Iodomethane	142	2.634	2.621	0.013	99	289609	25.0	24.0	
26 Carbon disulfide	76	2.664	2.652	0.012	100	434322	25.0	26.5	
28 3-Chloro-1-propene	41	2.811	2.810	0.000	90	229442	25.0	24.9	
27 Methyl acetate	43	2.853	2.853	0.000	100	280048	50.0	52.8	
30 Methylene Chloride	84	2.939	2.938	0.001	98	142962	25.0	23.5	
31 2-Methyl-2-propanol	59	3.097	3.097	0.000	99	205254	250.0	269.6	
32 Methyl tert-butyl ether	73	3.134	3.134	0.000	98	353734	25.0	23.3	
34 trans-1,2-Dichloroethene	96	3.146	3.146	0.000	94	133539	25.0	24.0	
33 Acrylonitrile	53	3.195	3.188	0.007	99	702395	250.0	266.0	
35 Hexane	57	3.329	3.323	0.006	94	207779	25.0	28.4	
39 1,1-Dichloroethane	63	3.518	3.518	0.000	97	261302	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.566	3.566	0.000	97	692205	50.0	59.2	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	94	135946	25.0	23.1	
45 cis-1,2-Dichloroethene	96	3.999	3.999	0.000	89	147147	25.0	23.8	
43 2-Butanone (MEK)	43	4.024	4.024	0.000	98	418227	125.0	138.2	
48 Chlorobromomethane	128	4.200	4.194	0.006	97	87472	25.0	23.0	
49 Tetrahydrofuran	42	4.213	4.213	0.000	90	109556	50.0	54.0	
50 Chloroform	83	4.261	4.261	0.000	96	245385	25.0	22.7	
51 1,1,1-Trichloroethane	97	4.359	4.359	0.000	98	197482	25.0	25.2	
52 Cyclohexane	56	4.371	4.371	0.000	97	244071	25.0	26.8	
55 Carbon tetrachloride	117	4.475	4.475	0.000	98	179848	25.0	26.4	
54 1,1-Dichloropropene	75	4.487	4.487	0.000	93	169492	25.0	24.5	
57 Benzene	78	4.658	4.658	0.000	96	464219	25.0	24.6	
53 Isobutyl alcohol	43	4.658	4.658	0.000	93	206848	625.0	790.8	
58 1,2-Dichloroethane	62	4.706	4.706	0.000	97	206219	25.0	22.8	
59 n-Heptane	43	4.798	4.792	-0.006	97	198610	25.0	28.2	
62 Trichloroethene	95	5.152	5.151	0.001	96	134694	25.0	23.9	
64 Methylcyclohexane	83	5.255	5.255	0.000	98	195260	25.0	25.3	
65 1,2-Dichloropropane	63	5.347	5.347	0.000	95	137665	25.0	25.5	
67 Dibromomethane	93	5.456	5.456	0.000	96	99979	25.0	23.8	
66 1,4-Dioxane	88	5.456	5.456	0.000	66	26952	500.0	604.0	
68 Dichlorobromomethane	83	5.572	5.572	0.000	98	182014	25.0	25.7	
69 2-Chloroethyl vinyl ether	63	5.786	5.785	0.001	92	95023	25.0	29.9	
72 cis-1,3-Dichloropropene	75	5.901	5.901	0.000	93	197500	25.0	26.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.011	-0.006	98	844455	125.0	143.1	
74 Toluene	92	6.133	6.133	0.000	98	272142	25.0	24.6	
77 trans-1,3-Dichloropropene	75	6.346	6.346	0.000	95	176485	25.0	27.8	
75 Ethyl methacrylate	69	6.371	6.371	0.000	94	144108	25.0	31.3	
79 1,1,2-Trichloroethane	83	6.493	6.493	0.000	93	101268	25.0	26.0	
81 Tetrachloroethene	166	6.554	6.554	0.000	97	138739	25.0	24.3	
82 1,3-Dichloropropane	76	6.621	6.621	0.000	94	178753	25.0	26.3	
80 2-Hexanone	43	6.657	6.657	0.000	99	558825	125.0	157.2	M
83 Chlorodibromomethane	129	6.804	6.804	0.000	90	159146	25.0	28.3	
84 Ethylene Dibromide	107	6.895	6.895	0.000	98	141651	25.0	26.8	
87 Chlorobenzene	112	7.255	7.255	0.000	98	325942	25.0	25.0	
88 Ethylbenzene	91	7.322	7.322	0.000	99	507188	25.0	25.9	
89 1,1,1,2-Tetrachloroethane	131	7.328	7.328	0.000	97	131795	25.0	25.8	
90 m-Xylene & p-Xylene	106	7.413	7.413	0.000	99	200575	25.0	25.6	
91 o-Xylene	106	7.742	7.743	0.000	97	202661	25.0	24.2	
92 Styrene	104	7.761	7.761	0.000	95	322400	25.0	25.6	
95 Bromoform	173	7.956	7.956	0.000	96	110711	25.0	31.1	
94 Isopropylbenzene	105	8.029	8.029	0.000	96	512547	25.0	24.6	
101 Bromobenzene	156	8.316	8.316	0.001	94	155568	25.0	25.2	
97 1,1,2,2-Tetrachloroethane	83	8.334	8.340	-0.006	96	179974	25.0	26.8	
99 N-Propylbenzene	91	8.364	8.364	0.000	99	608510	25.0	25.6	
100 1,2,3-Trichloropropane	110	8.370	8.370	0.000	86	44942	25.0	26.2	
98 trans-1,4-Dichloro-2-butene	53	8.376	8.377	0.000	81	42456	25.0	25.4	
103 2-Chlorotoluene	126	8.462	8.462	0.000	97	135117	25.0	24.7	
102 1,3,5-Trimethylbenzene	105	8.511	8.511	0.000	94	430374	25.0	24.8	
105 4-Chlorotoluene	126	8.553	8.553	0.000	97	134453	25.0	25.9	
106 tert-Butylbenzene	134	8.779	8.779	0.000	94	88160	25.0	24.6	
107 1,2,4-Trimethylbenzene	105	8.822	8.828	-0.006	97	451557	25.0	24.9	
109 sec-Butylbenzene	105	8.956	8.962	-0.006	95	571764	25.0	25.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	9.078	9.078	0.000	98	497148	25.0	24.5	
111 1,3-Dichlorobenzene	146	9.090	9.090	0.000	99	272208	25.0	25.0	
113 1,4-Dichlorobenzene	146	9.163	9.163	0.000	96	274841	25.0	24.6	
115 n-Butylbenzene	91	9.425	9.425	0.000	99	448034	25.0	25.2	
116 1,2-Dichlorobenzene	146	9.480	9.486	-0.006	99	272553	25.0	23.9	
117 1,2-Dibromo-3-Chloropropane	75	10.163	10.163	0.000	88	34146	25.0	28.6	
119 1,2,4-Trichlorobenzene	180	10.827	10.827	0.000	95	215058	25.0	22.7	
120 Hexachlorobutadiene	225	10.931	10.931	0.000	98	101557	25.0	24.3	
121 Naphthalene	128	11.035	11.035	0.000	97	559163	25.0	23.9	
122 1,2,3-Trichlorobenzene	180	11.230	11.236	-0.006	96	211451	25.0	22.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00244	Amount Added: 12.50	Units: uL	
GAS CORP mix_00588	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added: 1.00	Units: uL	Run Reagent

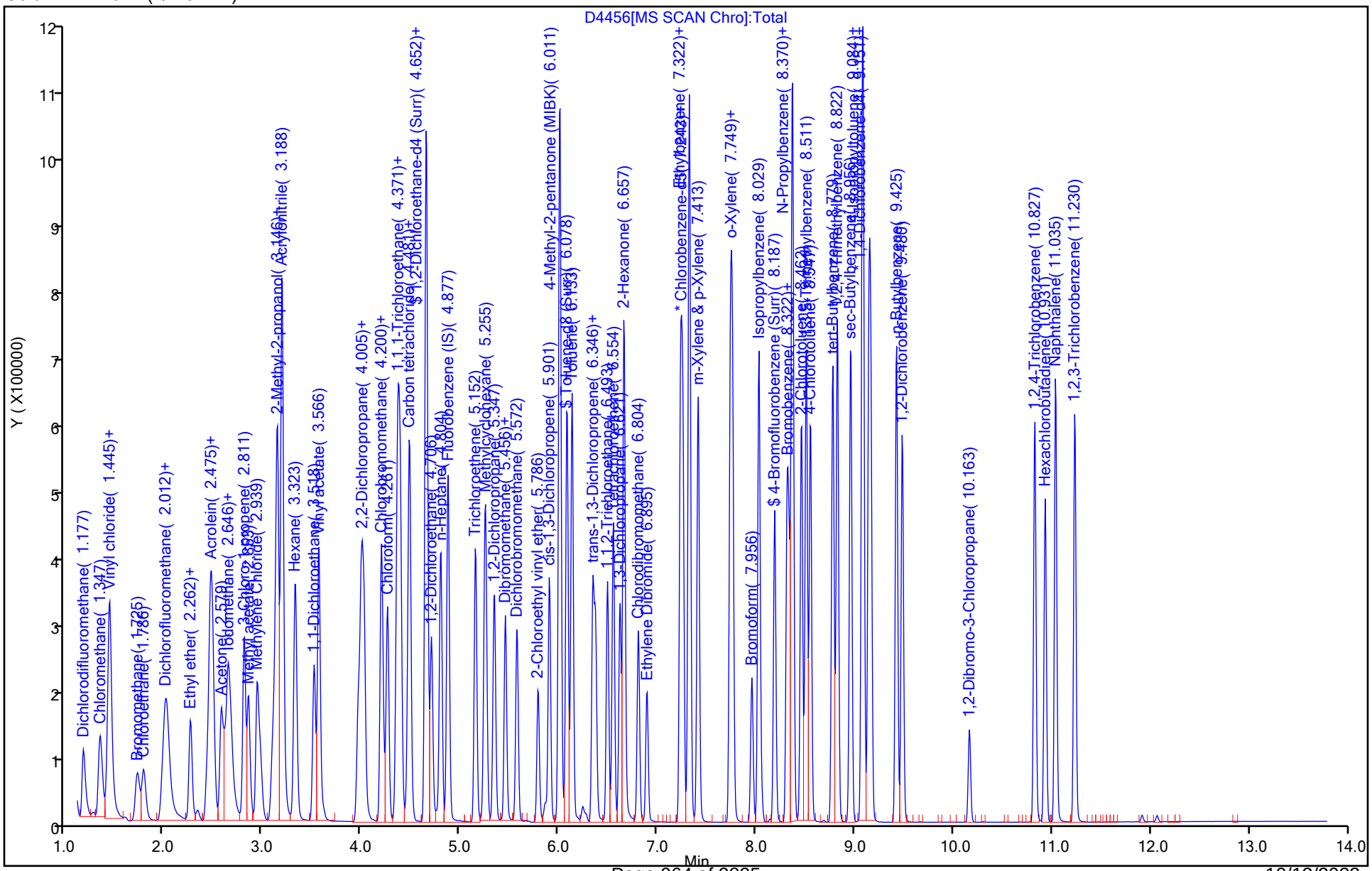
Report Date: 02-Oct-2023 18:24:49 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4456.d

Injection Date:	02-Oct-2023 16:47:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4456.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Oct-2023 16:47:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0114077-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2023 18:24:49 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: R3QB Date: 02-Oct-2023 18:24:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.4	93.71
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.7	94.61
$ 5 Toluene-d8 (Surr)	25.0	23.9	95.67
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.1	100.25

Manual Integration/User Assign Peak Report

Eurofins Buffalo

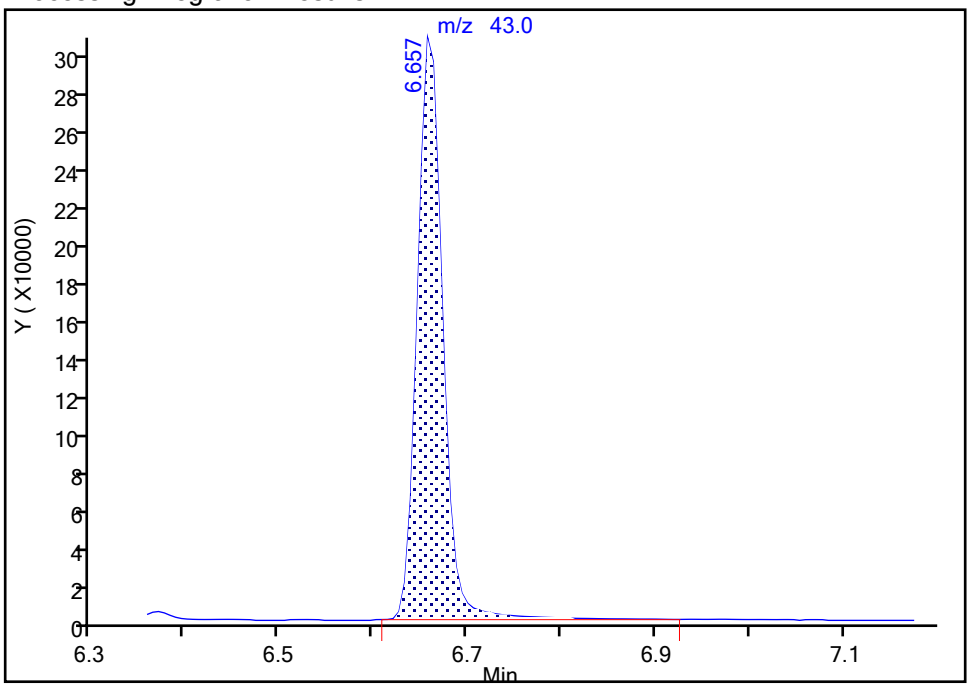
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20231002-114077.b\D4456.d
Injection Date: 02-Oct-2023 16:47:30 Instrument ID: HP5975D
Lims ID: LCS
Client ID:
Operator ID: AK ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

80 2-Hexanone, CAS: 591-78-6

Signal: 1

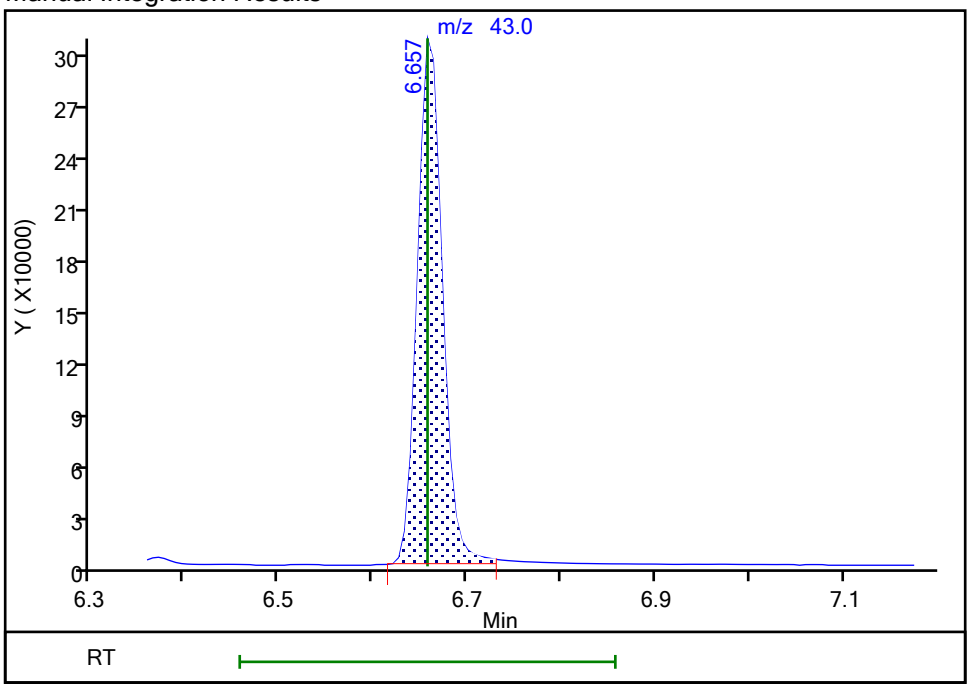
Processing Integration Results

RT: 6.66
Area: 567997
Amount: 159.8273
Amount Units: ug/L



Manual Integration Results

RT: 6.66
Area: 558825
Amount: 157.2464
Amount Units: ug/L



Reviewer: R3QB, 02-Oct-2023 18:24:46 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023-MS MS | Lab Sample ID: 480-213061-2 MS

Matrix: Water | Lab File ID: D4277.d

Analysis Method: 8260C | Date Collected: 09/25/2023 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 18:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	29.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	27.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	28.1		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27.8		1.0	0.31
75-34-3	1,1-Dichloroethane	26.7		1.0	0.38
75-35-4	1,1-Dichloroethene	30.9		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	29.0		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.5		1.0	0.79
107-06-2	1,2-Dichloroethane	24.8		1.0	0.21
78-87-5	1,2-Dichloropropane	27.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	27.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	27.4		1.0	0.84
78-93-3	2-Butanone (MEK)	145		10	1.3
591-78-6	2-Hexanone	164		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	147		5.0	2.1
67-64-1	Acetone	133		10	3.0
71-43-2	Benzene	27.4		1.0	0.41
75-27-4	Bromodichloromethane	27.4		1.0	0.39
75-25-2	Bromoform	32.4		1.0	0.26
74-83-9	Bromomethane	16.8		1.0	0.69
75-15-0	Carbon disulfide	27.3		1.0	0.19
56-23-5	Carbon tetrachloride	30.1		1.0	0.27
108-90-7	Chlorobenzene	28.4		1.0	0.75
124-48-1	Dibromochloromethane	30.2		1.0	0.32
75-00-3	Chloroethane	19.8		1.0	0.32
67-66-3	Chloroform	25.4		1.0	0.34
74-87-3	Chloromethane	22.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.4		1.0	0.36
110-82-7	Cyclohexane	28.0		1.0	0.18
75-71-8	Dichlorodifluoromethane	20.7		1.0	0.68
100-41-4	Ethylbenzene	29.4		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023-MS MS | Lab Sample ID: 480-213061-2 MS

Matrix: Water | Lab File ID: D4277.d

Analysis Method: 8260C | Date Collected: 09/25/2023 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 18:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	28.9		1.0	0.73
98-82-8	Isopropylbenzene	27.7		1.0	0.79
79-20-9	Methyl acetate	54.3		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.9		1.0	0.16
108-87-2	Methylcyclohexane	26.6		1.0	0.16
75-09-2	Methylene Chloride	26.2		1.0	0.44
100-42-5	Styrene	29.1		1.0	0.73
127-18-4	Tetrachloroethene	28.9		1.0	0.36
108-88-3	Toluene	28.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	29.1		1.0	0.37
79-01-6	Trichloroethene	27.5		1.0	0.46
75-69-4	Trichlorofluoromethane	27.3		1.0	0.88
75-01-4	Vinyl chloride	27.2		1.0	0.90
1330-20-7	Xylenes, Total	57.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	95		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4277.d
Lims ID: 480-213061-D-2 MS
Client ID: SW-B-09252023-MS
Sample Type: MS
Inject. Date: 27-Sep-2023 18:45:30 ALS Bottle#: 26 Worklist Smp#: 46
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-D-2 MS
Misc. Info.: 480-0113984-046
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 07:25:50 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1616

First Level Reviewer: QR3Z Date: 28-Sep-2023 07:26:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	98996	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	86	205553	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.139	0.006	94	219056	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.383	0.006	92	173799	25.0	23.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.646	4.639	0.007	100	89544	25.0	23.2	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	459457	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.188	8.181	0.007	96	165835	25.0	26.0	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	171586	25.0	20.7	
12 Chloromethane	50	1.347	1.341	0.006	99	276439	25.0	22.8	
13 Vinyl chloride	62	1.433	1.427	0.006	98	249051	25.0	27.2	
14 Bromomethane	94	1.713	1.713	0.000	90	92245	25.0	16.8	
15 Chloroethane	64	1.780	1.780	0.000	98	85278	25.0	19.8	
17 Trichlorofluoromethane	101	2.012	2.000	0.012	65	229340	25.0	27.3	
22 1,1-Dichloroethene	96	2.475	2.457	0.018	95	161530	25.0	30.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.469	2.463	0.006	95	168702	25.0	27.8	
23 Acetone	43	2.579	2.567	0.012	99	328760	125.0	132.9	
26 Carbon disulfide	76	2.664	2.646	0.018	100	483982	25.0	27.3	
27 Methyl acetate	43	2.853	2.847	0.006	99	312012	50.0	54.3	
30 Methylene Chloride	84	2.939	2.932	0.007	99	172410	25.0	26.2	
32 Methyl tert-butyl ether	73	3.134	3.128	0.006	99	408535	25.0	24.9	
34 trans-1,2-Dichloroethene	96	3.146	3.140	0.006	95	166104	25.0	27.6	
39 1,1-Dichloroethane	63	3.518	3.512	0.006	97	313587	25.0	26.7	
45 cis-1,2-Dichloroethene	96	3.999	3.993	0.006	84	179875	25.0	26.9	
43 2-Butanone (MEK)	43	4.024	4.018	0.006	98	475254	125.0	145.0	
50 Chloroform	83	4.261	4.255	0.006	95	297665	25.0	25.4	
51 1,1,1-Trichloroethane	97	4.359	4.353	0.006	98	246334	25.0	29.0	
52 Cyclohexane	56	4.371	4.365	0.006	95	275436	25.0	28.0	
55 Carbon tetrachloride	117	4.475	4.469	0.006	98	221882	25.0	30.1	
57 Benzene	78	4.652	4.652	0.000	96	558849	25.0	27.4	
58 1,2-Dichloroethane	62	4.706	4.700	0.006	97	243232	25.0	24.8	
62 Trichloroethene	95	5.152	5.145	0.007	96	168138	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.249	5.249	0.000	97	221854	25.0	26.6	
65 1,2-Dichloropropane	63	5.341	5.340	0.000	95	159157	25.0	27.2	
68 Dichlorobromomethane	83	5.572	5.566	0.006	98	210759	25.0	27.4	
72 cis-1,3-Dichloropropene	75	5.901	5.895	0.006	93	219378	25.0	27.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.000	98	922928	125.0	147.5	
74 Toluene	92	6.133	6.127	0.006	98	334057	25.0	28.5	
77 trans-1,3-Dichloropropene	75	6.340	6.340	0.000	97	195556	25.0	29.1	
79 1,1,2-Trichloroethane	83	6.493	6.486	0.006	93	115928	25.0	28.1	
81 Tetrachloroethene	166	6.554	6.547	0.006	97	175397	25.0	28.9	
80 2-Hexanone	43	6.657	6.657	0.000	98	618441	125.0	164.1	
83 Chlorodibromomethane	129	6.804	6.797	0.006	90	179927	25.0	30.2	
84 Ethylene Dibromide	107	6.889	6.889	0.000	98	162263	25.0	28.9	
87 Chlorobenzene	112	7.255	7.255	0.006	96	392659	25.0	28.4	
88 Ethylbenzene	91	7.322	7.316	0.006	99	611570	25.0	29.4	
90 m-Xylene & p-Xylene	106	7.413	7.407	0.006	99	242338		29.1	
91 o-Xylene	106	7.736	7.736	0.000	97	248286		28.0	
92 Styrene	104	7.761	7.755	0.006	96	388023	25.0	29.1	
95 Bromoform	173	7.956	7.950	0.006	96	122344	25.0	32.4	
94 Isopropylbenzene	105	8.029	8.028	0.006	96	629532	25.0	27.7	
97 1,1,2,2-Tetrachloroethane	83	8.334	8.339	0.000	95	203872	25.0	27.9	
111 1,3-Dichlorobenzene	146	9.084	9.090	0.000	99	329918	25.0	27.8	
113 1,4-Dichlorobenzene	146	9.163	9.163	0.006	96	332498	25.0	27.4	
116 1,2-Dichlorobenzene	146	9.480	9.486	0.000	99	329085	25.0	26.5	
117 1,2-Dibromo-3-Chloropropane	75	10.163	10.163	0.006	89	37693	25.0	29.0	
119 1,2,4-Trichlorobenzene	180	10.827	10.828	0.006	95	265108	25.0	25.6	
S 124 Xylenes, Total	1				0			57.1	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00244	Amount Added:	12.50	Units: uL	
GAS CORP mix_00587	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

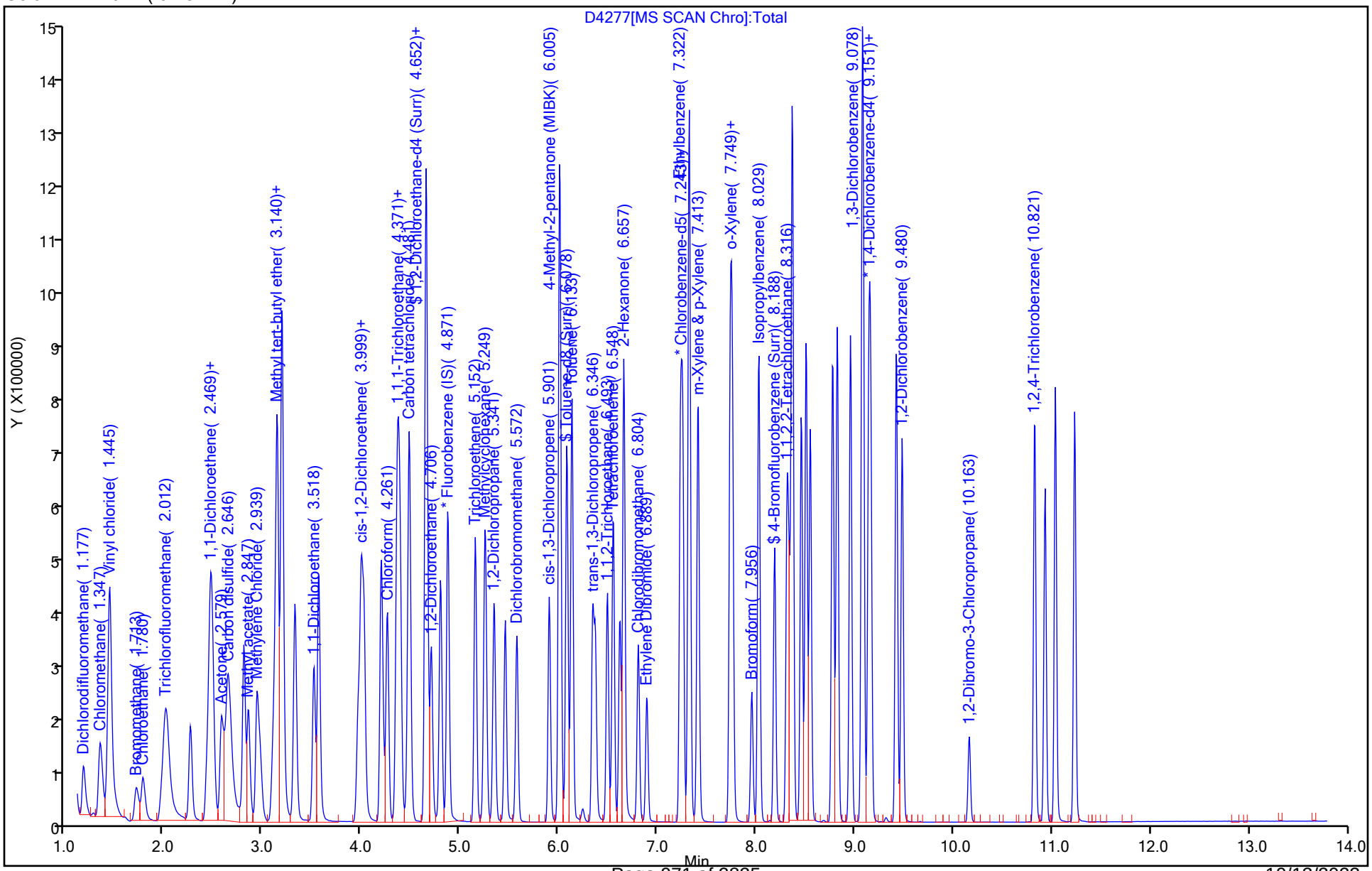
Report Date: 28-Sep-2023 07:26:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4277.d

Injection Date:	27-Sep-2023 18:45:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	480-213061-D-2 MS			Worklist Smp#:	46
Client ID:	SW-B-09252023-MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



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Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4277.d
Lims ID: 480-213061-D-2 MS
Client ID: SW-B-09252023-MS
Sample Type: MS
Inject. Date: 27-Sep-2023 18:45:30 ALS Bottle#: 26 Worklist Smp#: 46
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-D-2 MS
Misc. Info.: 480-0113984-046
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 07:25:50 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1616

First Level Reviewer: QR3Z Date: 28-Sep-2023 07:26:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.8	95.07
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.2	92.90
$ 5 Toluene-d8 (Surr)	25.0	24.5	98.20
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.0	104.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023-MS MS | Lab Sample ID: 480-213117-5 MS

Matrix: Water | Lab File ID: L1035.D

Analysis Method: 8260C | Date Collected: 09/26/2023 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 23:16

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.7		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.7		1.0	0.21
79-00-5	1,1,2-Trichloroethane	23.7		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.3		1.0	0.31
75-34-3	1,1-Dichloroethane	24.1		1.0	0.38
75-35-4	1,1-Dichloroethene	25.5		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.0		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.5		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.3		1.0	0.79
107-06-2	1,2-Dichloroethane	23.5		1.0	0.21
78-87-5	1,2-Dichloropropane	23.8		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.4		1.0	0.84
78-93-3	2-Butanone (MEK)	104		10	1.3
591-78-6	2-Hexanone	108		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	110		5.0	2.1
67-64-1	Acetone	105		10	3.0
71-43-2	Benzene	24.3		1.0	0.41
75-27-4	Bromodichloromethane	25.3		1.0	0.39
75-25-2	Bromoform	19.2		1.0	0.26
74-83-9	Bromomethane	26.7		1.0	0.69
75-15-0	Carbon disulfide	23.6		1.0	0.19
56-23-5	Carbon tetrachloride	27.1		1.0	0.27
108-90-7	Chlorobenzene	24.0		1.0	0.75
124-48-1	Dibromochloromethane	25.4		1.0	0.32
75-00-3	Chloroethane	27.7		1.0	0.32
67-66-3	Chloroform	23.9		1.0	0.34
74-87-3	Chloromethane	22.1		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.8		1.0	0.36
110-82-7	Cyclohexane	25.9		1.0	0.18
75-71-8	Dichlorodifluoromethane	27.7		1.0	0.68
100-41-4	Ethylbenzene	24.3		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023-MS MS | Lab Sample ID: 480-213117-5 MS

Matrix: Water | Lab File ID: L1035.D

Analysis Method: 8260C | Date Collected: 09/26/2023 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 23:16

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	23.6		1.0	0.73
98-82-8	Isopropylbenzene	24.9		1.0	0.79
79-20-9	Methyl acetate	42.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.9		1.0	0.16
108-87-2	Methylcyclohexane	26.1		1.0	0.16
75-09-2	Methylene Chloride	24.1		1.0	0.44
100-42-5	Styrene	23.8		1.0	0.73
127-18-4	Tetrachloroethene	24.9		1.0	0.36
108-88-3	Toluene	24.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.4		1.0	0.37
79-01-6	Trichloroethene	25.2		1.0	0.46
75-69-4	Trichlorofluoromethane	25.4		1.0	0.88
75-01-4	Vinyl chloride	29.3		1.0	0.90
1330-20-7	Xylenes, Total	48.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1035.D
Lims ID: 480-213117-A-5 MS
Client ID: GW-10S-09262023
Sample Type: MS
Inject. Date: 27-Sep-2023 23:16:29 ALS Bottle#: 0 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-5 MS
Misc. Info.: 480-0113994-031
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:26:02 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:27:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	134984	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.544	8.544	0.000	86	522831	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.949	0.004	95	277359	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	85	179726	25.0	25.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	98	215820	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	93	665417	25.0	24.7	
$ 7 4-Bromofluorobenzene (Surr)	174	9.785	9.789	0.000	97	179995	25.0	23.9	
10 Dichlorodifluoromethane	85	1.725	1.721	0.004	99	331891	25.0	27.7	
13 Chloromethane	50	1.940	1.940	0.000	99	298880	25.0	22.1	
14 Vinyl chloride	62	2.059	2.052	0.007	98	252114	25.0	29.3	
18 Bromomethane	94	2.422	2.419	0.003	91	123337	25.0	26.7	
19 Chloroethane	64	2.483	2.483	0.000	99	140379	25.0	27.7	
21 Trichlorofluoromethane	101	2.725	2.724	0.001	97	281366	25.0	25.4	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.162	3.159	0.003	94	202447	25.0	26.3	
30 1,1-Dichloroethene	96	3.191	3.187	0.004	97	193939	25.0	25.5	
31 Acetone	43	3.265	3.268	-0.003	99	351728	125.0	105.4	
35 Carbon disulfide	76	3.409	3.409	0.000	99	480029	25.0	23.6	
38 Methyl acetate	43	3.525	3.525	0.000	99	443394	50.0	42.1	
39 Methylene Chloride	84	3.641	3.644	-0.003	96	208890	25.0	24.1	
41 Methyl tert-butyl ether	73	3.808	3.805	0.003	97	615275	25.0	23.9	
42 trans-1,2-Dichloroethene	96	3.840	3.837	0.003	98	212583	25.0	24.8	
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	359409	25.0	24.1	
58 cis-1,2-Dichloroethene	96	4.708	4.708	0.000	81	224242	25.0	24.1	
57 2-Butanone (MEK)	43	4.721	4.718	0.003	100	683807	125.0	104.2	
62 Chloroform	83	4.979	4.975	0.004	93	355069	25.0	23.9	
64 1,1,1-Trichloroethane	97	5.110	5.107	0.003	99	285503	25.0	25.7	
65 Cyclohexane	56	5.126	5.126	0.000	93	413916	25.0	25.9	
66 Carbon tetrachloride	117	5.239	5.236	0.003	95	242872	25.0	27.1	
70 Benzene	78	5.435	5.435	0.000	97	800702	25.0	24.3	
72 1,2-Dichloroethane	62	5.487	5.486	0.001	97	276303	25.0	23.5	
75 Trichloroethene	95	5.985	5.985	0.000	98	212113	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83	6.110	6.107	0.003	92	392110	25.0	26.1	
77 1,2-Dichloropropane	63	6.220	6.216	0.004	94	197920	25.0	23.8	
83 Dichlorobromomethane	83	6.477	6.474	0.003	99	237483	25.0	25.3	
85 cis-1,3-Dichloropropene	75	6.866	6.866	0.000	94	301037	25.0	23.8	
87 4-Methyl-2-pentanone (MIBK)	43	6.982	6.984	0.000	98	1524905	125.0	110.5	
88 Toluene	92	7.155	7.155	0.003	98	481126	25.0	24.2	
91 trans-1,3-Dichloropropene	75	7.400	7.406	-0.003	94	268004	25.0	24.4	
93 1,1,2-Trichloroethane	83	7.596	7.599	0.000	91	147190	25.0	23.7	
94 Tetrachloroethene	166	7.676	7.676	0.003	97	201981	25.0	24.9	
96 2-Hexanone	43	7.789	7.789	0.004	99	1041138	125.0	108.2	
98 Chlorodibromomethane	129	8.001	8.001	0.003	90	162850	25.0	25.4	
101 Ethylene Dibromide	107	8.123	8.123	0.003	99	184062	25.0	23.6	
103 Chlorobenzene	112	8.577	8.577	0.003	95	518359	25.0	24.0	
104 Ethylbenzene	91	8.644	8.647	0.000	98	896396	25.0	24.3	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.003	99	351269		24.6	
107 o-Xylene	106	9.194	9.194	0.003	97	350806		24.3	
109 Styrene	104	9.220	9.220	0.004	95	534109	25.0	23.8	
110 Bromoform	173	9.493	9.493	0.003	95	96422	25.0	19.2	
111 Isopropylbenzene	105	9.564	9.567	0.000	96	906573	25.0	24.9	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.978	0.000	94	277795	25.0	23.7	
124 1,3-Dichlorobenzene	146	10.892	10.892	0.004	97	411880	25.0	23.8	
126 1,4-Dichlorobenzene	146	10.975	10.979	0.000	94	414418	25.0	23.4	
128 1,2-Dichlorobenzene	146	11.329	11.332	0.000	97	406427	25.0	23.3	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.033	0.000	89	55009	25.0	23.5	
130 1,2,4-Trichlorobenzene	180	12.657	12.661	0.000	95	296391	25.0	23.0	
S 143 Xylenes, Total	1				0			48.9	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00244	Amount Added:	12.50	Units: uL	
GAS CORP mix_00587	Amount Added:	12.50	Units: uL	
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 28-Sep-2023 11:27:48 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1035.D

Injection Date: 27-Sep-2023 23:16:29 Instrument ID: HP5977L

Lims ID: 480-213117-A-5 MS

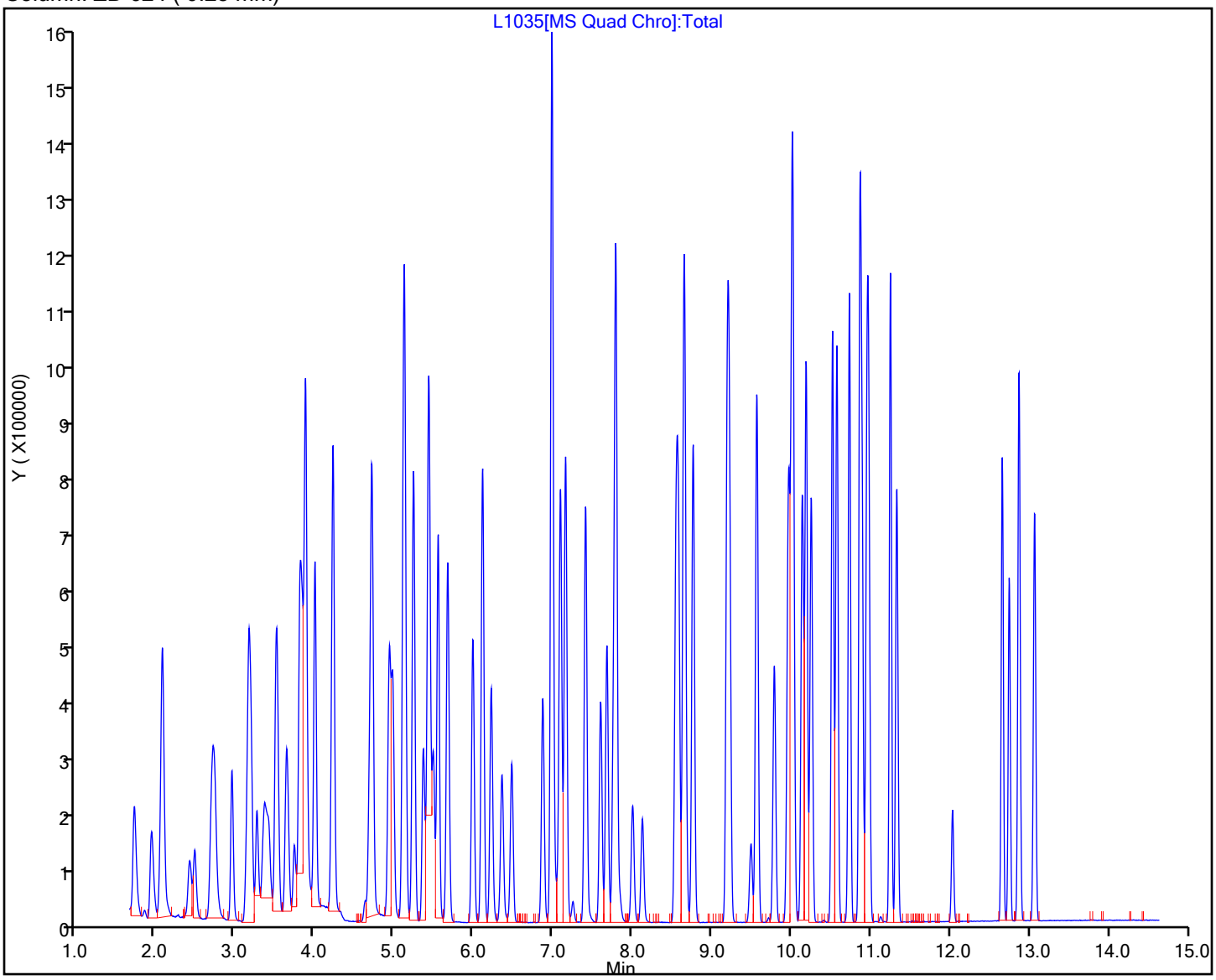
Client ID: GW-10S-09262023

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 31

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1035.D
Lims ID: 480-213117-A-5 MS
Client ID: GW-10S-09262023
Sample Type: MS
Inject. Date: 27-Sep-2023 23:16:29 ALS Bottle#: 0 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-5 MS
Misc. Info.: 480-0113994-031
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:26:02 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:27:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	25.9	103.58
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.2	100.66
$ 6 Toluene-d8 (Surr)	25.0	24.7	98.88
$ 7 4-Bromofluorobenzene (Surr)	25.0	23.9	95.65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023-MSD MSD | Lab Sample ID: 480-213061-2 MSD

Matrix: Water | Lab File ID: D4278.d

Analysis Method: 8260C | Date Collected: 09/25/2023 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 19:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	29.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	28.5		1.0	0.21
79-00-5	1,1,2-Trichloroethane	28.6		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29.2		1.0	0.31
75-34-3	1,1-Dichloroethane	27.1		1.0	0.38
75-35-4	1,1-Dichloroethene	31.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.2		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	29.2		1.0	0.39
95-50-1	1,2-Dichlorobenzene	27.2		1.0	0.79
107-06-2	1,2-Dichloroethane	25.5		1.0	0.21
78-87-5	1,2-Dichloropropane	28.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	28.3		1.0	0.78
106-46-7	1,4-Dichlorobenzene	27.9		1.0	0.84
78-93-3	2-Butanone (MEK)	150		10	1.3
591-78-6	2-Hexanone	166		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	149		5.0	2.1
67-64-1	Acetone	132		10	3.0
71-43-2	Benzene	28.3		1.0	0.41
75-27-4	Bromodichloromethane	28.6		1.0	0.39
75-25-2	Bromoform	33.2		1.0	0.26
74-83-9	Bromomethane	16.7		1.0	0.69
75-15-0	Carbon disulfide	28.4		1.0	0.19
56-23-5	Carbon tetrachloride	31.2		1.0	0.27
108-90-7	Chlorobenzene	28.7		1.0	0.75
124-48-1	Dibromochloromethane	31.2		1.0	0.32
75-00-3	Chloroethane	20.8		1.0	0.32
67-66-3	Chloroform	26.0		1.0	0.34
74-87-3	Chloromethane	22.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	27.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	29.0		1.0	0.36
110-82-7	Cyclohexane	28.6		1.0	0.18
75-71-8	Dichlorodifluoromethane	21.1		1.0	0.68
100-41-4	Ethylbenzene	30.2		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023-MSD MSD | Lab Sample ID: 480-213061-2 MSD

Matrix: Water | Lab File ID: D4278.d

Analysis Method: 8260C | Date Collected: 09/25/2023 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 19:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685139 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	29.6		1.0	0.73
98-82-8	Isopropylbenzene	28.3		1.0	0.79
79-20-9	Methyl acetate	54.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.8		1.0	0.16
108-87-2	Methylcyclohexane	27.6		1.0	0.16
75-09-2	Methylene Chloride	26.9		1.0	0.44
100-42-5	Styrene	29.7		1.0	0.73
127-18-4	Tetrachloroethene	29.4		1.0	0.36
108-88-3	Toluene	28.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	28.4		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	29.8		1.0	0.37
79-01-6	Trichloroethene	28.0		1.0	0.46
75-69-4	Trichlorofluoromethane	27.2		1.0	0.88
75-01-4	Vinyl chloride	26.6		1.0	0.90
1330-20-7	Xylenes, Total	58.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	95		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4278.d
Lims ID: 480-213061-D-2 MSD
Client ID: SW-B-09252023-MSD
Sample Type: MSD
Inject. Date: 27-Sep-2023 19:07:30 ALS Bottle#: 27 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-D-2 MSD
Misc. Info.: 480-0113984-047
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 07:25:50 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1616

First Level Reviewer: QR3Z Date: 28-Sep-2023 07:26:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.871	4.871	0.000	99	96251	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.230	7.230	0.000	86	205568	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.145	9.139	0.005	93	219434	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.389	4.383	0.006	93	169302	25.0	23.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.645	4.639	0.006	100	86559	25.0	23.1	
$ 5 Toluene-d8 (Surr)	98	6.078	6.078	0.000	94	453957	25.0	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.187	8.181	0.006	96	164716	25.0	25.9	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	169794	25.0	21.1	
12 Chloromethane	50	1.341	1.341	0.000	99	266028	25.0	22.6	
13 Vinyl chloride	62	1.426	1.427	-0.001	98	237370	25.0	26.6	
14 Bromomethane	94	1.707	1.713	-0.006	90	89166	25.0	16.7	
15 Chloroethane	64	1.774	1.780	-0.006	99	86910	25.0	20.8	
17 Trichlorofluoromethane	101	2.006	2.000	0.006	98	222086	25.0	27.2	
22 1,1-Dichloroethene	96	2.463	2.457	0.006	95	158970	25.0	31.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.463	2.463	0.000	69	172305	25.0	29.2	
23 Acetone	43	2.573	2.567	0.006	99	317731	125.0	132.1	
26 Carbon disulfide	76	2.658	2.646	0.012	100	490917	25.0	28.4	
27 Methyl acetate	43	2.847	2.847	0.000	99	302043	50.0	54.1	
30 Methylene Chloride	84	2.938	2.932	0.006	99	172366	25.0	26.9	
32 Methyl tert-butyl ether	73	3.133	3.128	0.005	99	411246	25.0	25.8	
34 trans-1,2-Dichloroethene	96	3.146	3.140	0.006	95	166339	25.0	28.4	
39 1,1-Dichloroethane	63	3.511	3.512	-0.001	96	309671	25.0	27.1	
45 cis-1,2-Dichloroethene	96	3.993	3.993	0.000	85	179502	25.0	27.6	
43 2-Butanone (MEK)	43	4.024	4.018	0.006	98	478350	125.0	150.1	
50 Chloroform	83	4.261	4.255	0.006	95	295751	25.0	26.0	
51 1,1,1-Trichloroethane	97	4.359	4.353	0.006	99	246007	25.0	29.8	
52 Cyclohexane	56	4.371	4.365	0.006	95	273900	25.0	28.6	
55 Carbon tetrachloride	117	4.475	4.469	0.006	98	223809	25.0	31.2	
57 Benzene	78	4.651	4.652	-0.001	96	561570	25.0	28.3	
58 1,2-Dichloroethane	62	4.706	4.700	0.006	97	242777	25.0	25.5	
62 Trichloroethene	95	5.151	5.145	0.006	96	166559	25.0	28.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.249	5.249	0.000	97	224247	25.0	27.6	
65 1,2-Dichloropropane	63	5.340	5.340	0.000	95	160661	25.0	28.2	
68 Dichlorobromomethane	83	5.572	5.566	0.006	98	213280	25.0	28.6	
72 cis-1,3-Dichloropropene	75	5.901	5.895	0.006	94	225830	25.0	29.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.000	98	929719	125.0	148.6	
74 Toluene	92	6.133	6.127	0.006	98	338305	25.0	28.9	
77 trans-1,3-Dichloropropene	75	6.340	6.340	0.000	95	200800	25.0	29.8	
79 1,1,2-Trichloroethane	83	6.493	6.486	0.006	93	118214	25.0	28.6	
81 Tetrachloroethene	166	6.554	6.547	0.006	97	178216	25.0	29.4	
80 2-Hexanone	43	6.657	6.657	0.000	97	627126	125.0	166.4	
83 Chlorodibromomethane	129	6.803	6.797	0.005	90	185776	25.0	31.2	
84 Ethylene Dibromide	107	6.889	6.889	0.000	98	166000	25.0	29.6	
87 Chlorobenzene	112	7.255	7.255	0.006	96	398082	25.0	28.7	
88 Ethylbenzene	91	7.322	7.316	0.006	99	627805	25.0	30.2	
90 m-Xylene & p-Xylene	106	7.413	7.407	0.006	99	251872		30.3	
91 o-Xylene	106	7.736	7.736	0.000	97	253426		28.6	
92 Styrene	104	7.761	7.755	0.006	96	395475	25.0	29.7	
95 Bromoform	173	7.956	7.950	0.006	97	125391	25.0	33.2	
94 Isopropylbenzene	105	8.029	8.028	0.006	96	643086	25.0	28.3	
97 1,1,2,2-Tetrachloroethane	83	8.334	8.339	0.000	96	208759	25.0	28.5	
111 1,3-Dichlorobenzene	146	9.084	9.090	0.000	99	336699	25.0	28.3	
113 1,4-Dichlorobenzene	146	9.163	9.163	0.006	97	339194	25.0	27.9	
116 1,2-Dichlorobenzene	146	9.480	9.486	0.000	99	338288	25.0	27.2	
117 1,2-Dibromo-3-Chloropropane	75	10.163	10.163	0.006	89	37978	25.0	29.2	
119 1,2,4-Trichlorobenzene	180	10.827	10.828	0.006	95	270896	25.0	26.2	
S 124 Xylenes, Total	1				0			58.8	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00244	Amount Added:	12.50	Units: uL	
GAS CORP mix_00587	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00069	Amount Added:	1.00	Units: uL	Run Reagent

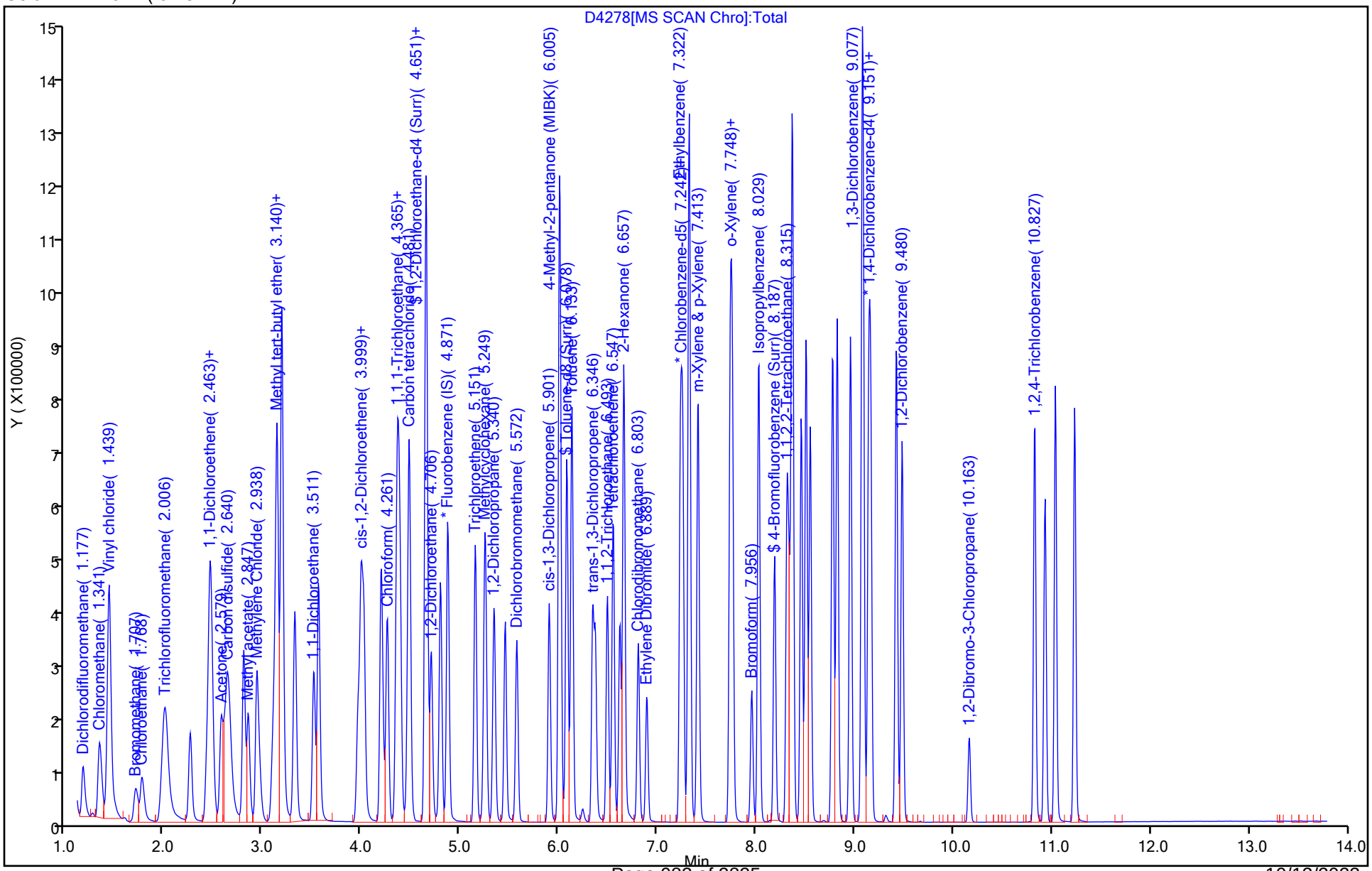
Report Date: 28-Sep-2023 07:26:54 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4278.d

Injection Date:	27-Sep-2023 19:07:30	Instrument ID:	HP5975D	Operator ID:	ZN
Lims ID:	480-213061-D-2 MSD			Worklist Smp#:	47
Client ID:	SW-B-09252023-MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



10/13/2023
10:08 AM

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D4278.d
Lims ID: 480-213061-D-2 MSD
Client ID: SW-B-09252023-MSD
Sample Type: MSD
Inject. Date: 27-Sep-2023 19:07:30 ALS Bottle#: 27 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213061-D-2 MSD
Misc. Info.: 480-0113984-047
Operator ID: ZN Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20230927-113984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 07:25:50 Calib Date: 07-Sep-2023 22:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20230907-113624.b\D3499.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1616

First Level Reviewer: QR3Z Date: 28-Sep-2023 07:26:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.8	95.25
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	23.1	92.36
$ 5 Toluene-d8 (Surr)	25.0	24.3	97.01
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.9	103.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023-MSD MSD | Lab Sample ID: 480-213117-5 MSD

Matrix: Water | Lab File ID: L1036.D

Analysis Method: 8260C | Date Collected: 09/26/2023 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 23:40

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	29.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	27.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.7		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28.8		1.0	0.31
75-34-3	1,1-Dichloroethane	27.7		1.0	0.38
75-35-4	1,1-Dichloroethene	29.3		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.4		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	29.5		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.6		1.0	0.79
107-06-2	1,2-Dichloroethane	26.1		1.0	0.21
78-87-5	1,2-Dichloropropane	27.1		1.0	0.72
541-73-1	1,3-Dichlorobenzene	27.3		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.9		1.0	0.84
78-93-3	2-Butanone (MEK)	130		10	1.3
591-78-6	2-Hexanone	132		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	133		5.0	2.1
67-64-1	Acetone	130		10	3.0
71-43-2	Benzene	27.4		1.0	0.41
75-27-4	Bromodichloromethane	28.8		1.0	0.39
75-25-2	Bromoform	24.8		1.0	0.26
74-83-9	Bromomethane	24.9		1.0	0.69
75-15-0	Carbon disulfide	27.9		1.0	0.19
56-23-5	Carbon tetrachloride	31.5		1.0	0.27
108-90-7	Chlorobenzene	27.1		1.0	0.75
124-48-1	Dibromochloromethane	30.0		1.0	0.32
75-00-3	Chloroethane	27.2		1.0	0.32
67-66-3	Chloroform	26.9		1.0	0.34
74-87-3	Chloromethane	23.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	27.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.5		1.0	0.36
110-82-7	Cyclohexane	28.4		1.0	0.18
75-71-8	Dichlorodifluoromethane	27.1		1.0	0.68
100-41-4	Ethylbenzene	27.5		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023-MSD MSD | Lab Sample ID: 480-213117-5 MSD

Matrix: Water | Lab File ID: L1036.D

Analysis Method: 8260C | Date Collected: 09/26/2023 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 09/27/2023 23:40

Soil Aliquot Vol: | Dilution Factor: 1

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

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 685187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	27.2		1.0	0.73
98-82-8	Isopropylbenzene	29.5		1.0	0.79
79-20-9	Methyl acetate	52.0		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.8		1.0	0.16
108-87-2	Methylcyclohexane	28.3		1.0	0.16
75-09-2	Methylene Chloride	27.5		1.0	0.44
100-42-5	Styrene	27.0		1.0	0.73
127-18-4	Tetrachloroethene	28.1		1.0	0.36
108-88-3	Toluene	27.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	28.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.7		1.0	0.37
79-01-6	Trichloroethene	28.8		1.0	0.46
75-69-4	Trichlorofluoromethane	25.8		1.0	0.88
75-01-4	Vinyl chloride	29.9		1.0	0.90
1330-20-7	Xylenes, Total	55.4		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1036.D
Lims ID: 480-213117-A-5 MSD
Client ID: GW-10S-09262023
Sample Type: MSD
Inject. Date: 27-Sep-2023 23:40:38 ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-213117-A-5 MS
Misc. Info.: 480-0113994-031
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Sep-2023 11:26:02 Calib Date: 25-Sep-2023 22:18:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: R3QB Date: 28-Sep-2023 11:28:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	5.670	5.667	0.004	99	131226	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.548	8.544	0.004	91	506560	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.953	10.949	0.004	95	259278	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.123	5.123	0.003	92	181921	25.0	27.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.422	5.419	0.003	98	212035	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	7.091	7.091	0.003	93	685197	25.0	26.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.786	9.789	0.001	97	189944	25.0	26.0	
10 Dichlorodifluoromethane	85	1.722	1.721	0.001	99	315032	25.0	27.1	
13 Chloromethane	50	1.940	1.940	0.000	99	305937	25.0	23.2	
14 Vinyl chloride	62	2.056	2.052	0.004	98	249505	25.0	29.9	
18 Bromomethane	94	2.419	2.419	0.000	92	111410	25.0	24.9	
19 Chloroethane	64	2.484	2.483	0.001	99	133740	25.0	27.2	
21 Trichlorofluoromethane	101	2.721	2.724	-0.003	97	277127	25.0	25.8	
29 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.159	3.159	0.000	95	215961	25.0	28.8	
30 1,1-Dichloroethene	96	3.191	3.187	0.004	97	216346	25.0	29.3	
31 Acetone	43	3.265	3.268	-0.003	100	421329	125.0	129.9	
35 Carbon disulfide	76	3.406	3.409	-0.003	100	554581	25.0	27.9	
38 Methyl acetate	43	3.525	3.525	0.000	99	531924	50.0	52.0	
39 Methylene Chloride	84	3.648	3.644	0.004	96	230885	25.0	27.5	
41 Methyl tert-butyl ether	73	3.808	3.805	0.003	97	670833	25.0	26.8	
42 trans-1,2-Dichloroethene	96	3.840	3.837	0.003	98	236104	25.0	28.3	
50 1,1-Dichloroethane	63	4.213	4.213	0.000	96	401068	25.0	27.7	
58 cis-1,2-Dichloroethene	96	4.712	4.708	0.004	82	250234	25.0	27.6	
57 2-Butanone (MEK)	43	4.721	4.718	0.003	99	831146	125.0	130.3	
62 Chloroform	83	4.979	4.975	0.004	94	388361	25.0	26.9	
64 1,1,1-Trichloroethane	97	5.110	5.107	0.003	99	316097	25.0	29.3	
65 Cyclohexane	56	5.127	5.126	0.001	93	440390	25.0	28.4	
66 Carbon tetrachloride	117	5.236	5.236	0.000	97	274345	25.0	31.5	
70 Benzene	78	5.435	5.435	0.000	98	879386	25.0	27.4	
72 1,2-Dichloroethane	62	5.487	5.486	0.001	97	298877	25.0	26.1	
75 Trichloroethene	95	5.985	5.985	0.000	98	236052	25.0	28.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83	6.110	6.107	0.003	92	412639	25.0	28.3	
77 1,2-Dichloropropane	63	6.220	6.216	0.004	95	218767	25.0	27.1	
83 Dichlorobromomethane	83	6.477	6.474	0.003	99	262888	25.0	28.8	
85 cis-1,3-Dichloropropene	75	6.869	6.866	0.003	95	338751	25.0	27.5	
87 4-Methyl-2-pentanone (MIBK)	43	6.985	6.984	0.003	98	1784095	125.0	133.4	
88 Toluene	92	7.155	7.155	0.003	97	532108	25.0	27.7	
91 trans-1,3-Dichloropropene	75	7.403	7.406	0.000	95	293821	25.0	27.7	
93 1,1,2-Trichloroethane	83	7.596	7.599	0.000	92	160787	25.0	26.7	
94 Tetrachloroethene	166	7.676	7.676	0.003	96	220994	25.0	28.1	
96 2-Hexanone	43	7.789	7.789	0.004	98	1229306	125.0	131.9	
98 Chlorodibromomethane	129	8.001	8.001	0.003	90	186243	25.0	30.0	
101 Ethylene Dibromide	107	8.123	8.123	0.003	98	205685	25.0	27.2	
103 Chlorobenzene	112	8.577	8.577	0.004	95	567200	25.0	27.1	
104 Ethylbenzene	91	8.647	8.647	0.003	98	984657	25.0	27.5	
106 m-Xylene & p-Xylene	106	8.763	8.763	0.003	99	386015		27.9	
107 o-Xylene	106	9.194	9.194	0.003	96	383846		27.5	
109 Styrene	104	9.220	9.220	0.004	95	587894	25.0	27.0	
110 Bromoform	173	9.493	9.493	0.003	96	121151	25.0	24.8	
111 Isopropylbenzene	105	9.564	9.567	0.000	96	1002419	25.0	29.5	
112 1,1,2,2-Tetrachloroethane	83	9.975	9.978	0.000	96	303004	25.0	27.6	
124 1,3-Dichlorobenzene	146	10.888	10.892	0.000	98	440630	25.0	27.3	
126 1,4-Dichlorobenzene	146	10.975	10.979	0.000	93	445031	25.0	26.9	
128 1,2-Dichlorobenzene	146	11.329	11.332	0.000	97	432987	25.0	26.6	
129 1,2-Dibromo-3-Chloropropane	75	12.030	12.033	0.000	84	64687	25.0	29.5	
130 1,2,4-Trichlorobenzene	180	12.657	12.661	0.000	94	305791	25.0	25.4	
S 143 Xylenes, Total	1				0			55.3	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00244	Amount Added:	12.50	Units: uL	
GAS CORP mix_00587	Amount Added:	12.50	Units: uL	
L_8260_SURR_00048	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00050	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 28-Sep-2023 11:28:03 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1036.D

Injection Date: 27-Sep-2023 23:40:38 Instrument ID: HP5977L

Lims ID: 480-213117-A-5 MSD

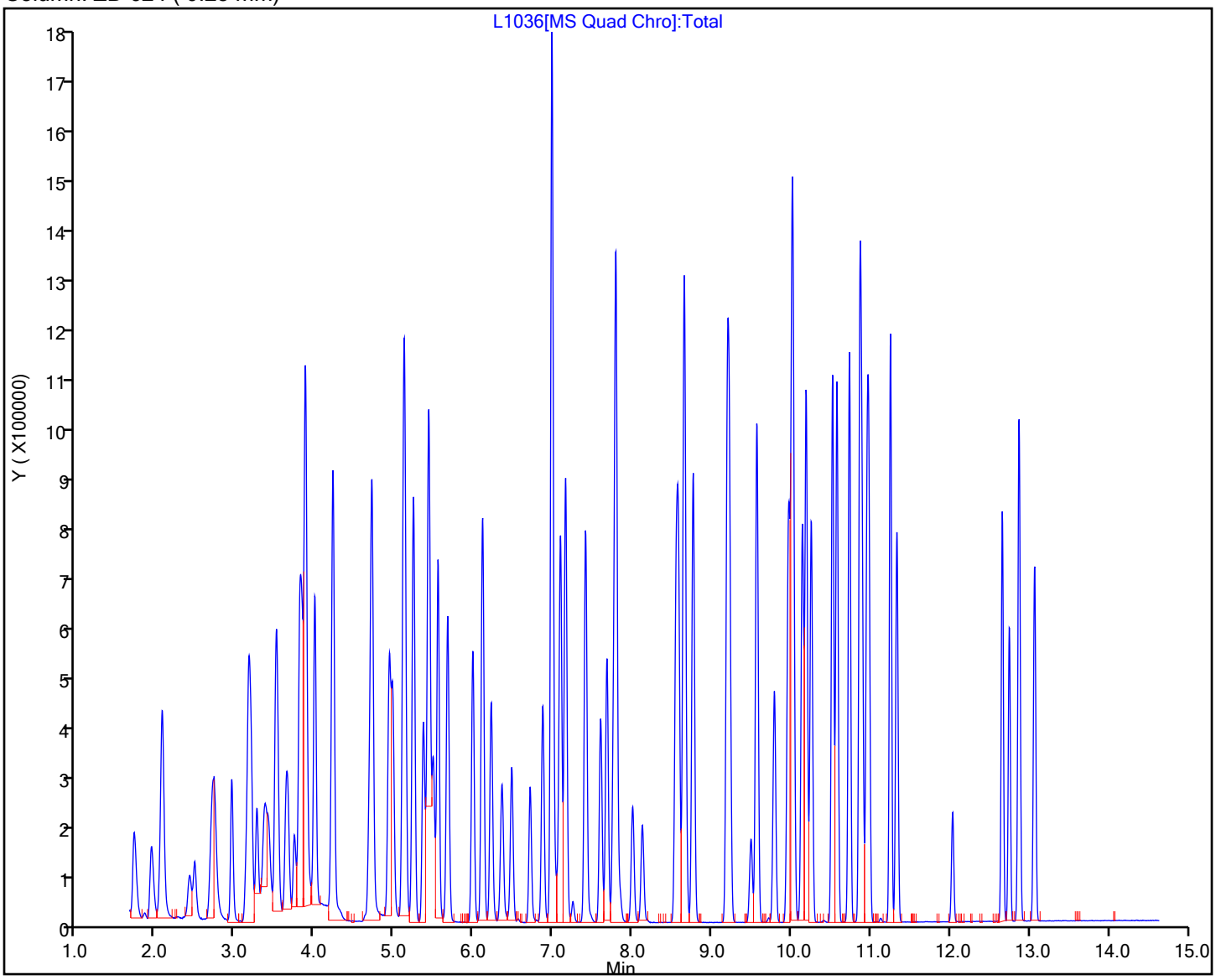
Client ID: GW-10S-09262023

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 32

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L1036.D				
Lims ID:	480-213117-A-5 MSD				
Client ID:	GW-10S-09262023				
Sample Type:	MSD				
Inject. Date:	27-Sep-2023 23:40:38	ALS Bottle#:	0	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-213117-A-5 MS				
Misc. Info.:	480-0113994-031				
Operator ID:	LH	Instrument ID:	HP5977L		
Method:	\\chromfs\Buffalo\ChromData\HP5977L\20230927-113994.b\L-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	28-Sep-2023 11:26:02	Calib Date:	25-Sep-2023 22:18:27		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5977L\20230925-113942.b\L0991.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS Quad		
Process Host:	CTX1651				

First Level Reviewer: R3QB Date: 28-Sep-2023 11:28:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	25.0	27.0	107.85
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	25.4	101.73
$ 6 Toluene-d8 (Surr)	25.0	26.3	105.09
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.0	104.18

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: HP5975D Start Date: 09/07/2023 14:54

Analysis Batch Number: 682635 End Date: 09/07/2023 23:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-682635/11		09/07/2023 14:54	1	D3479.d	ZB-624 (20) 0.18(mm)
IC 480-682635/13		09/07/2023 15:45	1	D3481.d	ZB-624 (20) 0.18(mm)
IC 480-682635/14		09/07/2023 16:07	1	D3482.d	ZB-624 (20) 0.18(mm)
IC 480-682635/15		09/07/2023 16:29	1	D3483.d	ZB-624 (20) 0.18(mm)
IC 480-682635/16		09/07/2023 16:51	1	D3484.d	ZB-624 (20) 0.18(mm)
IC 480-682635/17		09/07/2023 17:13	1	D3485.d	ZB-624 (20) 0.18(mm)
ICIS 480-682635/18		09/07/2023 17:35	1	D3486.d	ZB-624 (20) 0.18(mm)
IC 480-682635/19		09/07/2023 17:57	1	D3487.d	ZB-624 (20) 0.18(mm)
IC 480-682635/20		09/07/2023 18:19	1	D3488.d	ZB-624 (20) 0.18(mm)
ZZZZZ		09/07/2023 19:03	1		ZB-624 (20) 0.18(mm)
IC 480-682635/25		09/07/2023 20:09	1		ZB-624 (20) 0.18(mm)
IC 480-682635/26		09/07/2023 20:31	1		ZB-624 (20) 0.18(mm)
IC 480-682635/27		09/07/2023 20:53	1		ZB-624 (20) 0.18(mm)
IC 480-682635/28		09/07/2023 21:15	1		ZB-624 (20) 0.18(mm)
IC 480-682635/29		09/07/2023 21:37	1		ZB-624 (20) 0.18(mm)
IC 480-682635/30		09/07/2023 21:59	1		ZB-624 (20) 0.18(mm)
IC 480-682635/31		09/07/2023 22:21	1		ZB-624 (20) 0.18(mm)
ZZZZZ		09/07/2023 23:05	1		ZB-624 (20) 0.18(mm)
ICV 480-682635/34		09/07/2023 23:27	1	D3502.d	ZB-624 (20) 0.18(mm)
ICV 480-682635/35		09/07/2023 23:49	1	D3503.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: HP5975D Start Date: 09/26/2023 21:15

Analysis Batch Number: 685071 End Date: 09/27/2023 02:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-685071/3		09/26/2023 21:15	1	D4235.d	ZB-624 (20) 0.18(mm)
CCVIS 480-685071/4		09/26/2023 21:36	1	D4236.d	ZB-624 (20) 0.18(mm)
CCV 480-685071/5		09/26/2023 21:58	1		ZB-624 (20) 0.18(mm)
LCS 480-685071/6		09/26/2023 22:20	1	D4238.d	ZB-624 (20) 0.18(mm)
RL 480-685071/8		09/26/2023 22:42	1		ZB-624 (20) 0.18(mm)
MB 480-685071/9		09/26/2023 23:04	1	D4240.d	ZB-624 (20) 0.18(mm)
ZZZZZ		09/26/2023 23:26	1		ZB-624 (20) 0.18(mm)
ZZZZZ		09/26/2023 23:48	1		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 00:10	1		ZB-624 (20) 0.18(mm)
480-213061-1	GW-13D-09252023	09/27/2023 00:32	1	D4244.d	ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 00:53	1		ZB-624 (20) 0.18(mm)
480-213061-3	FD-1-09252023	09/27/2023 01:16	1	D4246.d	ZB-624 (20) 0.18(mm)
480-213061-4	EB-1-09252023	09/27/2023 01:38	1	D4247.d	ZB-624 (20) 0.18(mm)
480-213061-5	TB-1-09252023	09/27/2023 02:00	1	D4248.d	ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 02:22	1		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 02:44	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: HP5975D Start Date: 09/27/2023 09:20

Analysis Batch Number: 685139 End Date: 09/27/2023 19:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-685139/3		09/27/2023 09:20	1	D4254.d	ZB-624 (20) 0.18(mm)
CCVIS 480-685139/4		09/27/2023 09:43	1	D4255.d	ZB-624 (20) 0.18(mm)
CCV 480-685139/5		09/27/2023 10:22	1		ZB-624 (20) 0.18(mm)
LCS 480-685139/6		09/27/2023 10:44	1	D4257.d	ZB-624 (20) 0.18(mm)
RL 480-685139/8		09/27/2023 11:06	1		ZB-624 (20) 0.18(mm)
MB 480-685139/9		09/27/2023 11:28	1	D4259.d	ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 12:30	1		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 12:52	2		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 13:14	2		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 13:36	40		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 13:58	20		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 14:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 14:42	1		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 15:05	10		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 15:27	80		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 15:49	1		ZB-624 (20) 0.18(mm)
480-213061-2	SW-B-09252023	09/27/2023 16:11	1	D4270.d	ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 16:33	40		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 16:55	2		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 17:16	2		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 17:38	2		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 18:00	4		ZB-624 (20) 0.18(mm)
ZZZZZ		09/27/2023 18:23	1		ZB-624 (20) 0.18(mm)
480-213061-2 MS	SW-B-09252023-MS MS	09/27/2023 18:45	1	D4277.d	ZB-624 (20) 0.18(mm)
480-213061-2 MSD	SW-B-09252023-MSD MSD	09/27/2023 19:07	1	D4278.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: HP5975D Start Date: 10/02/2023 15:40

Analysis Batch Number: 685822 End Date: 10/03/2023 01:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-685822/3		10/02/2023 15:40	1	D4453.d	ZB-624 (20) 0.18(mm)
CCVIS 480-685822/4		10/02/2023 16:03	1	D4454.d	ZB-624 (20) 0.18(mm)
CCV 480-685822/5		10/02/2023 16:25	1		ZB-624 (20) 0.18(mm)
LCS 480-685822/6		10/02/2023 16:47	1	D4456.d	ZB-624 (20) 0.18(mm)
MB 480-685822/8		10/02/2023 17:31	1	D4458.d	ZB-624 (20) 0.18(mm)
480-213196-1	GW-4S-09282023	10/02/2023 17:56	1	D4459.d	ZB-624 (20) 0.18(mm)
480-213196-2	GW-4D-09282023	10/02/2023 18:19	1	D4460.d	ZB-624 (20) 0.18(mm)
480-213196-3	GW-M-24DR-09282023	10/02/2023 18:41	1	D4461.d	ZB-624 (20) 0.18(mm)
480-213196-4	GW-DGC-4S-09282023	10/02/2023 19:03	1	D4462.d	ZB-624 (20) 0.18(mm)
480-213196-5	SW-F-09282023	10/02/2023 19:25	1	D4463.d	ZB-624 (20) 0.18(mm)
480-213196-6	SW-A-09282023	10/02/2023 19:47	1	D4464.d	ZB-624 (20) 0.18(mm)
480-213196-7	SW-E-09282023	10/02/2023 20:09	1	D4465.d	ZB-624 (20) 0.18(mm)
480-213196-8	SW-G-09282023	10/02/2023 20:31	1	D4466.d	ZB-624 (20) 0.18(mm)
480-213196-9	EB-4-09282023	10/02/2023 20:53	1	D4467.d	ZB-624 (20) 0.18(mm)
480-213196-10	TB-4-09282023	10/02/2023 21:15	1	D4468.d	ZB-624 (20) 0.18(mm)
ZZZZZ		10/02/2023 21:37	200		ZB-624 (20) 0.18(mm)
ZZZZZ		10/02/2023 21:59	800		ZB-624 (20) 0.18(mm)
ZZZZZ		10/02/2023 22:21	200		ZB-624 (20) 0.18(mm)
ZZZZZ		10/02/2023 22:43	500		ZB-624 (20) 0.18(mm)
ZZZZZ		10/02/2023 23:05	500		ZB-624 (20) 0.18(mm)
ZZZZZ		10/02/2023 23:27	200		ZB-624 (20) 0.18(mm)
ZZZZZ		10/02/2023 23:49	100		ZB-624 (20) 0.18(mm)
ZZZZZ		10/03/2023 00:11	800		ZB-624 (20) 0.18(mm)
ZZZZZ		10/03/2023 00:33	100		ZB-624 (20) 0.18(mm)
ZZZZZ		10/03/2023 00:55	100		ZB-624 (20) 0.18(mm)
ZZZZZ		10/03/2023 01:17	100		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: HP5977L Start Date: 09/25/2023 14:07

Analysis Batch Number: 684845 End Date: 09/25/2023 23:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-684845/12		09/25/2023 14:07	1	L0971.D	ZB-624 (30) VOA 0.25(mm)
IC 480-684845/14		09/25/2023 14:59	1	L0973.D	ZB-624 (30) VOA 0.25(mm)
IC 480-684845/15		09/25/2023 15:24	1	L0974.D	ZB-624 (30) VOA 0.25(mm)
IC 480-684845/16		09/25/2023 15:48	1	L0975.D	ZB-624 (30) VOA 0.25(mm)
IC 480-684845/17		09/25/2023 16:13	1	L0976.D	ZB-624 (30) VOA 0.25(mm)
IC 480-684845/18		09/25/2023 16:37	1	L0977.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-684845/19		09/25/2023 17:01	1	L0978.D	ZB-624 (30) VOA 0.25(mm)
IC 480-684845/20		09/25/2023 17:25	1	L0979.D	ZB-624 (30) VOA 0.25(mm)
IC 480-684845/21		09/25/2023 17:49	1	L0980.D	ZB-624 (30) VOA 0.25(mm)
IC 480-684845/26		09/25/2023 19:51	1		ZB-624 (30) VOA 0.25(mm)
IC 480-684845/27		09/25/2023 20:15	1		ZB-624 (30) VOA 0.25(mm)
IC 480-684845/28		09/25/2023 20:40	1		ZB-624 (30) VOA 0.25(mm)
IC 480-684845/29		09/25/2023 21:05	1		ZB-624 (30) VOA 0.25(mm)
IC 480-684845/30		09/25/2023 21:30	1		ZB-624 (30) VOA 0.25(mm)
IC 480-684845/31		09/25/2023 21:54	1		ZB-624 (30) VOA 0.25(mm)
IC 480-684845/32		09/25/2023 22:18	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-684845/35		09/25/2023 23:31	1	L0994.D	ZB-624 (30) VOA 0.25(mm)
ICV 480-684845/36		09/25/2023 23:55	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: HP5977L Start Date: 09/27/2023 11:43

Analysis Batch Number: 685187 End Date: 09/27/2023 23:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-685187/3		09/27/2023 11:43	1	L1008.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 12:10	1		ZB-624 (30) VOA 0.25(mm)
CCVIS 480-685187/5		09/27/2023 12:48	1	L1010.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-685187/6		09/27/2023 13:13	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-685187/7		09/27/2023 13:37	1	L1012.D	ZB-624 (30) VOA 0.25(mm)
MB 480-685187/9		09/27/2023 14:46	1	L1014.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 15:10	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 15:34	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 15:58	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 16:23	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 16:47	20		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 17:12	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 17:36	1		ZB-624 (30) VOA 0.25(mm)
480-213117-1	GW-M-26S-09262023	09/27/2023 18:00	1	L1022.D	ZB-624 (30) VOA 0.25(mm)
480-213117-2	GW-M-26D-09262023	09/27/2023 18:24	1	L1023.D	ZB-624 (30) VOA 0.25(mm)
480-213117-3	GW-11D-09262023	09/27/2023 18:49	1	L1024.D	ZB-624 (30) VOA 0.25(mm)
480-213117-4	DUP-2-09262023	09/27/2023 19:13	1	L1025.D	ZB-624 (30) VOA 0.25(mm)
480-213117-5	GW-10S-09262023	09/27/2023 19:37	1	L1026.D	ZB-624 (30) VOA 0.25(mm)
480-213117-6	GW-13S-09262023	09/27/2023 20:02	1	L1027.D	ZB-624 (30) VOA 0.25(mm)
480-213117-7	GW-M-27D-09262023	09/27/2023 20:27	1	L1028.D	ZB-624 (30) VOA 0.25(mm)
480-213117-8	EB-2-09262023	09/27/2023 20:51	1	L1029.D	ZB-624 (30) VOA 0.25(mm)
480-213117-9	TB-2-09262023	09/27/2023 21:15	1	L1030.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 21:39	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 22:03	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 22:27	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/27/2023 22:51	1		ZB-624 (30) VOA 0.25(mm)
480-213117-5 MS	GW-10S-09262023-MS MS	09/27/2023 23:16	1	L1035.D	ZB-624 (30) VOA 0.25(mm)
480-213117-5 MSD	GW-10S-09262023-MSD MSD	09/27/2023 23:40	1	L1036.D	ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: HP5977L Start Date: 09/29/2023 00:01

Analysis Batch Number: 685418 End Date: 09/29/2023 09:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-685418/3		09/29/2023 00:01	1	L1070.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-685418/4		09/29/2023 00:25	1	L1071.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-685418/5		09/29/2023 00:49	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-685418/6		09/29/2023 01:13	1	L1073.D	ZB-624 (30) VOA 0.25(mm)
RL 480-685418/7		09/29/2023 01:37	1		ZB-624 (30) VOA 0.25(mm)
MB 480-685418/8		09/29/2023 02:02	1	L1075.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/29/2023 02:26	2		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/29/2023 02:51	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/29/2023 03:15	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/29/2023 03:40	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/29/2023 04:04	1		ZB-624 (30) VOA 0.25(mm)
480-213168-1	SW-D-09272023	09/29/2023 04:29	1	L1081.D	ZB-624 (30) VOA 0.25(mm)
480-213168-2	GW-M-28S-09272023	09/29/2023 04:53	1	L1082.D	ZB-624 (30) VOA 0.25(mm)
480-213168-3	GW-M-29S-09272023	09/29/2023 05:18	1	L1083.D	ZB-624 (30) VOA 0.25(mm)
480-213168-4	GW-MW-4-09272023	09/29/2023 05:42	1	L1084.D	ZB-624 (30) VOA 0.25(mm)
480-213168-5	GW-M-29D-09272023	09/29/2023 06:07	1	L1085.D	ZB-624 (30) VOA 0.25(mm)
480-213168-6	GW-M-25D-09272023	09/29/2023 06:31	1	L1086.D	ZB-624 (30) VOA 0.25(mm)
480-213168-7	GW-M-25S-09272023	09/29/2023 06:56	1	L1087.D	ZB-624 (30) VOA 0.25(mm)
480-213168-8	GW-M-1-09272023	09/29/2023 07:20	1	L1088.D	ZB-624 (30) VOA 0.25(mm)
480-213168-9	GW-M-28D-0929023	09/29/2023 07:45	1	L1089.D	ZB-624 (30) VOA 0.25(mm)
480-213168-10	EB-3-09272023	09/29/2023 08:09	1	L1090.D	ZB-624 (30) VOA 0.25(mm)
480-213168-11	TB-3-09272023	09/29/2023 08:33	1	L1091.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/29/2023 08:57	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		09/29/2023 09:21	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 682635 Batch Start Date: 09/07/23 14:54 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	3_MCP_Add_WRK 00413	8260 CORP mix 00242	BFB_WRK 00149	D 8260 IS/SUR 00069
BFB 480-682635/11		8260C		1 uL	1 uL			1 uL	
IC 480-682635/13		8260C		5 mL	5 mL		0.4 uL		1 uL
IC 480-682635/14		8260C		5 mL	5 mL		1 uL		1 uL
IC 480-682635/15		8260C		5 mL	5 mL		2 uL		1 uL
IC 480-682635/16		8260C		5 mL	5 mL		5 uL		1 uL
IC 480-682635/17		8260C		5 mL	5 mL		5 uL		1 uL
ICIS 480-682635/18		8260C		5 mL	5 mL		12.5 uL		1 uL
IC 480-682635/19		8260C		5 mL	5 mL		25 uL		1 uL
IC 480-682635/20		8260C		5 mL	5 mL		50 uL		1 uL
ICV 480-682635/34		8260C		5 mL	5 mL				1 uL
ICV 480-682635/35		8260C		5 mL	5 mL	12.5 uL			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GAS CORP mix 00583	SS 8260 CORP 00109	SS ADD CORP 00087	SS GAS CORP 00535		
BFB 480-682635/11		8260C							
IC 480-682635/13		8260C		0.4 uL					
IC 480-682635/14		8260C		1 uL					
IC 480-682635/15		8260C		2 uL					
IC 480-682635/16		8260C		5 uL					
IC 480-682635/17		8260C		5 uL					
ICIS 480-682635/18		8260C		12.5 uL					
IC 480-682635/19		8260C		25 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 682635 Batch Start Date: 09/07/23 14:54 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	GAS CORP mix 00583	SS 8260 CORP 00109	SS ADD CORP 00087	SS GAS CORP 00535		
IC 480-682635/20		8260C		50 uL					
ICV 480-682635/34		8260C			12.5 uL		12.5 uL		
ICV 480-682635/35		8260C				12.5 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 684845 Batch Start Date: 09/25/23 14:07 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00244	BFB_WRK 00150	GAS CORP mix 00587	L_8260_IS 00050
BFB 480-684845/12		8260C		1 uL	1 uL		1 uL		
IC 480-684845/14		8260C		5 mL	5 mL	0.4 uL		0.4 uL	2 uL
IC 480-684845/15		8260C		5 mL	5 mL	1 uL		1 uL	2 uL
IC 480-684845/16		8260C		5 mL	5 mL	2 uL		2 uL	2 uL
IC 480-684845/17		8260C		5 mL	5 mL	5 uL		5 uL	2 uL
IC 480-684845/18		8260C		5 mL	5 mL	5 uL		5 uL	2 uL
ICIS 480-684845/19		8260C		5 mL	5 mL	12.5 uL		12.5 uL	2 uL
IC 480-684845/20		8260C		5 mL	5 mL	25 uL		25 uL	2 uL
IC 480-684845/21		8260C		5 mL	5 mL	50 uL		50 uL	2 uL
ICV 480-684845/35		8260C		5 mL	5 mL				2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_SURR 00048	SS 8260 CORP 00109	SS GAS CORP 00537			
BFB 480-684845/12		8260C							
IC 480-684845/14		8260C		2 uL					
IC 480-684845/15		8260C		2 uL					
IC 480-684845/16		8260C		2 uL					
IC 480-684845/17		8260C		2 uL					
IC 480-684845/18		8260C		2 uL					
ICIS 480-684845/19		8260C		2 uL					
IC 480-684845/20		8260C		2 uL					
IC 480-684845/21		8260C		2 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 684845 Batch Start Date: 09/25/23 14:07 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_SURR 00048	SS 8260 CORP 00109	SS GAS CORP 00537			
ICV 480-684845/35		8260C		2 uL	12.5 uL	12.5 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685071 Batch Start Date: 09/26/23 21:15 Batch Analyst: Nyhart, Zachary

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00244	BFB_WRK 00149	D 8260 IS/SUR 00069
BFB 480-685071/3		8260C		1 uL	1 uL			1 uL	
CCVIS 480-685071/4		8260C		5 mL	5 mL		12.5 uL		1 uL
LCS 480-685071/6		8260C		5 mL	5 mL		12.5 uL		1 uL
MB 480-685071/9		8260C		5 mL	5 mL				1 uL
480-213061-C-1	GW-M-27D-09252023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213061-C-3	FD-1-09252023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213061-C-4	EB-1-09252023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213061-A-5	TB-1-09252023	8260C	T	5 mL	5 mL	<2 SU			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GAS CORP mix 00587					
BFB 480-685071/3		8260C							
CCVIS 480-685071/4		8260C		12.5 uL					
LCS 480-685071/6		8260C		12.5 uL					
MB 480-685071/9		8260C							
480-213061-C-1	GW-M-27D-09252023	8260C	T						
480-213061-C-3	FD-1-09252023	8260C	T						
480-213061-C-4	EB-1-09252023	8260C	T						
480-213061-A-5	TB-1-09252023	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685139 Batch Start Date: 09/27/23 09:20 Batch Analyst: Nyhart, Zachary

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00244	BFB_WRK 00149	D 8260 IS/SUR 00069
BFB 480-685139/3		8260C		1 uL	1 uL			1 uL	
CCVIS 480-685139/4		8260C		5 mL	5 mL		12.5 uL		1 uL
LCS 480-685139/6		8260C		5 mL	5 mL		12.5 uL		1 uL
MB 480-685139/9		8260C		5 mL	5 mL				1 uL
480-213061-D-2	SW-B-09252023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213061-D-2 MS	SW-B-09252023-MS	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL
480-213061-D-2 MSD	SW-B-09252023-MSD	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GAS CORP mix 00587					
BFB 480-685139/3		8260C							
CCVIS 480-685139/4		8260C		12.5 uL					
LCS 480-685139/6		8260C		12.5 uL					
MB 480-685139/9		8260C							
480-213061-D-2	SW-B-09252023	8260C	T						
480-213061-D-2 MS	SW-B-09252023-MS	8260C	T	12.5 uL					
480-213061-D-2 MSD	SW-B-09252023-MSD	8260C	T	12.5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685187 Batch Start Date: 09/27/23 11:43 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00244	BFB_WRK 00150	GAS CORP mix 00587
BFB 480-685187/3		8260C		1 uL	1 uL			1 uL	
CCVIS 480-685187/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-685187/7		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-685187/9		8260C		5 mL	5 mL				
480-213117-A-1	GW-M-26S-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-2	GW-M-26D-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-3	GW-11D-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-4	DUP-2-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-5	GW-10S-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-6	GW-13S-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-7	GW-M-27D-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-8	EB-2-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-9	TB-2-09262023	8260C	T	5 mL	5 mL	<2 SU			
480-213117-A-5 MS	GW-10S-09262023	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-213117-A-5 MSD	GW-10S-09262023	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_IS 00050	L_8260_SURR 00048				
BFB 480-685187/3		8260C							
CCVIS 480-685187/5		8260C		2 uL	2 uL				
LCS 480-685187/7		8260C		2 uL	2 uL				
MB 480-685187/9		8260C		2 uL	2 uL				
480-213117-A-1	GW-M-26S-09262023	8260C	T	2 uL	2 uL				
480-213117-A-2	GW-M-26D-09262023	8260C	T	2 uL	2 uL				
480-213117-A-3	GW-11D-09262023	8260C	T	2 uL	2 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685187 Batch Start Date: 09/27/23 11:43 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_IS 00050	L_8260_SURR 00048				
480-213117-A-4	DUP-2-09262023	8260C	T	2 uL	2 uL				
480-213117-A-5	GW-10S-09262023	8260C	T	2 uL	2 uL				
480-213117-A-6	GW-13S-09262023	8260C	T	2 uL	2 uL				
480-213117-A-7	GW-M-27D-09262023	8260C	T	2 uL	2 uL				
480-213117-A-8	EB-2-09262023	8260C	T	2 uL	2 uL				
480-213117-A-9	TB-2-09262023	8260C	T	2 uL	2 uL				
480-213117-A-5 MS	GW-10S-09262023	8260C	T	2 uL	2 uL				
480-213117-A-5 MSD	GW-10S-09262023	8260C	T	2 uL	2 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685418 Batch Start Date: 09/29/23 00:01 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00244	BFB_WRK 00150	GAS CORP mix 00588
BFB 480-685418/3		8260C		1 uL	1 uL			1 uL	
CCVIS 480-685418/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-685418/6		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-685418/8		8260C		5 mL	5 mL				
480-213168-A-1	SW-D-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-2	GW-M-28S-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-3	GW-M-29S-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-4	GW-MW-4-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-5	GW-MW-29D-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-6	GW-M-25D-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-7	GW-M-25S-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-8	GW-M-1-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-9	GW-M-28D-0929023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-10	EB-3-09272023	8260C	T	5 mL	5 mL	<2 SU			
480-213168-A-11	TB-3-09272023	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_IS 00050	L_8260_SURR 00048				
BFB 480-685418/3		8260C							
CCVIS 480-685418/4		8260C		2 uL	2 uL				
LCS 480-685418/6		8260C		2 uL	2 uL				
MB 480-685418/8		8260C		2 uL	2 uL				
480-213168-A-1	SW-D-09272023	8260C	T	2 uL	2 uL				
480-213168-A-2	GW-M-28S-09272023	8260C	T	2 uL	2 uL				
480-213168-A-3	GW-M-29S-09272023	8260C	T	2 uL	2 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685418 Batch Start Date: 09/29/23 00:01 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_IS 00050	L_8260_SURR 00048				
480-213168-A-4	GW-MW-4-09272023	8260C	T	2 uL	2 uL				
480-213168-A-5	GW-MW-29D-09272023	8260C	T	2 uL	2 uL				
480-213168-A-6	GW-M-25D-09272023	8260C	T	2 uL	2 uL				
480-213168-A-7	GW-M-25S-09272023	8260C	T	2 uL	2 uL				
480-213168-A-8	GW-M-1-09272023	8260C	T	2 uL	2 uL				
480-213168-A-9	GW-M-28D-0929023	8260C	T	2 uL	2 uL				
480-213168-A-10	EB-3-09272023	8260C	T	2 uL	2 uL				
480-213168-A-11	TB-3-09272023	8260C	T	2 uL	2 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685822 Batch Start Date: 10/02/23 15:40 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00244	BFB_WRK 00150	D 8260 IS/SUR 00069
BFB 480-685822/3		8260C		1 uL	1 uL			1 uL	
CCVIS 480-685822/4		8260C		5 mL	5 mL		12.5 uL		1 uL
LCS 480-685822/6		8260C		5 mL	5 mL		12.5 uL		1 uL
MB 480-685822/8		8260C		5 mL	5 mL				1 uL
480-213196-A-1	GW-4S-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-2	GW-4D-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-3	GW-M-24DR-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-4	GW-DGC-4S-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-5	SW-F-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-6	SW-A-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-7	SW-E-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-8	SW-G-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-9	EB-4-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL
480-213196-A-10	TB-4-09282023	8260C	T	5 mL	5 mL	<2 SU			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GAS CORP mix 00588					
BFB 480-685822/3		8260C							
CCVIS 480-685822/4		8260C		12.5 uL					
LCS 480-685822/6		8260C		12.5 uL					
MB 480-685822/8		8260C							
480-213196-A-1	GW-4S-09282023	8260C	T						
480-213196-A-2	GW-4D-09282023	8260C	T						
480-213196-A-3	GW-M-24DR-09282023	8260C	T						
480-213196-A-4	GW-DGC-4S-09282023	8260C	T						
480-213196-A-5	SW-F-09282023	8260C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685822 Batch Start Date: 10/02/23 15:40 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	GAS CORP mix 00588					
480-213196-A-6	SW-A-09282023	8260C	T						
480-213196-A-7	SW-E-09282023	8260C	T						
480-213196-A-8	SW-G-09282023	8260C	T						
480-213196-A-9	EB-4-09282023	8260C	T						
480-213196-A-10	TB-4-09282023	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method RSK-175

Dissolved Gases (GC) by Method RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_147.D

Lab ID: LCS 480-685202/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	36.5	41.6	114	79-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_164.D

Lab ID: LCS 480-685350/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	36.5	36.6	100	79-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_184.D

Lab ID: LCS 480-685513/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	36.5	40.4	110	79-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_227.D

Lab ID: LCS 480-686019/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	36.5	40.4	111	79-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_165.D

Lab ID: LCSD 480-685350/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethane	36.5	37.1	102	1	50	79-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_185.D

Lab ID: LCSD 480-685513/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethane	36.5	33.9	93	17	50	79-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_228.D

Lab ID: LCSD 480-686019/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethane	36.5	38.0	104	6	50	79-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_152.D

Lab ID: 480-213061-2 MS Client ID: SW-B-09252023-MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethane	36.5	7.5 U	37.8	103	76-125	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_178.D

Lab ID: 480-213117-5 MS Client ID: GW-10S-09262023-MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethane	36.5	7.5 U	34.2	94	76-125	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_153.D

Lab ID: 480-213061-2 MSD Client ID: SW-B-09252023-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethane	36.5	36.7	100	3	50	76-125	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Level: Low Lab File ID: pe3_088_179.D

Lab ID: 480-213117-5 MSD Client ID: GW-10S-09262023-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethane	36.5	36.5	100	7	50	76-125	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: MB 480-685202/3

Matrix: Water Date Extracted:

Lab File ID:(1) pe3_088_146.D Lab File ID:(2)

Date Analyzed:(1) 09/27/2023 10:51 Date Analyzed:(2)

Instrument ID:(1) PE-03 Instrument ID:(2)

GC Column:(1) Alumina ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-685202/4	09/27/2023 11:09	
SW-B-09252023	480-213061-2	09/27/2023 11:31	
GW-13D-09252023	480-213061-1	09/27/2023 11:50	
FD-1-09252023	480-213061-3	09/27/2023 12:09	
EB-1-09252023	480-213061-4	09/27/2023 12:28	
SW-B-09252023-MS MS	480-213061-2 MS	09/27/2023 12:46	
SW-B-09252023-MSD MSD	480-213061-2 MSD	09/27/2023 13:05	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: MB 480-685350/3

Matrix: Water Date Extracted:

Lab File ID:(1) pe3_088_163.D Lab File ID:(2)

Date Analyzed:(1) 09/28/2023 10:02 Date Analyzed:(2)

Instrument ID:(1) PE-03 Instrument ID:(2)

GC Column:(1) Alumina ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-685350/4	09/28/2023 10:21	
	LCSD 480-685350/5	09/28/2023 10:40	
GW-M-26S-09262023	480-213117-1	09/28/2023 12:14	
GW-M-26D-09262023	480-213117-2	09/28/2023 12:33	
GW-11D-09262023	480-213117-3	09/28/2023 12:52	
DUP-2-09262023	480-213117-4	09/28/2023 13:11	
GW-10S-09262023	480-213117-5	09/28/2023 13:30	
GW-13S-09262023	480-213117-6	09/28/2023 13:48	
GW-M-27D-09262023	480-213117-7	09/28/2023 14:07	
EB-2-09262023	480-213117-8	09/28/2023 14:26	
GW-10S-09262023-MS MS	480-213117-5 MS	09/28/2023 14:45	
GW-10S-09262023-MSD MSD	480-213117-5 MSD	09/28/2023 15:04	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: MB 480-685513/3

Matrix: Water Date Extracted:

Lab File ID:(1) pe3_088_183.D Lab File ID:(2)

Date Analyzed:(1) 09/29/2023 07:46 Date Analyzed:(2)

Instrument ID:(1) PE-03 Instrument ID:(2)

GC Column:(1) Alumina ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-685513/4	09/29/2023 08:05	
	LCSD 480-685513/5	09/29/2023 08:23	
SW-D-09272023	480-213168-1	09/29/2023 08:44	
GW-M-28S-09272023	480-213168-2	09/29/2023 09:03	
GW-M-29S-09272023	480-213168-3	09/29/2023 09:21	
GW-MW-4-09272023	480-213168-4	09/29/2023 09:40	
GW-M-29D-09272023	480-213168-5	09/29/2023 09:59	
GW-M-25D-09272023	480-213168-6	09/29/2023 10:18	
GW-M-25S-09272023	480-213168-7	09/29/2023 10:37	
GW-M-1-09272023	480-213168-8	09/29/2023 10:56	
GW-M-28D-0929023	480-213168-9	09/29/2023 11:15	
EB-3-09272023	480-213168-10	09/29/2023 11:33	

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: MB 480-686019/3

Matrix: Water Date Extracted:

Lab File ID:(1) pe3_088_226.D Lab File ID:(2)

Date Analyzed:(1) 10/04/2023 07:41 Date Analyzed:(2)

Instrument ID:(1) PE-03 Instrument ID:(2)

GC Column:(1) Alumina ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-686019/4	10/04/2023 08:00	
	LCSD 480-686019/5	10/04/2023 08:19	
GW-4S-09282023	480-213196-1	10/04/2023 08:38	
GW-4D-09282023	480-213196-2	10/04/2023 08:57	
GW-M-24DR-09282023	480-213196-3	10/04/2023 09:16	
GW-DGC-4S-09282023	480-213196-4	10/04/2023 09:35	
SW-F-09282023	480-213196-5	10/04/2023 09:53	
SW-A-09282023	480-213196-6	10/04/2023 10:12	
SW-E-09282023	480-213196-7	10/04/2023 10:31	
SW-G-09282023	480-213196-8	10/04/2023 10:50	
EB-4-09282023	480-213196-9	10/04/2023 11:09	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-13D-09252023 | Lab Sample ID: 480-213061-1

Matrix: Water | Lab File ID: pe3_088_149.D

Analysis Method: RSK-175 | Date Collected: 09/25/2023 16:25

Sample wt/vol: 17(mL) | Date Analyzed: 09/27/2023 11:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685202 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_149.D				
Lims ID:	480-213061-F-1				
Client ID:	GW-13D-09252023				
Sample Type:	Client				
Inject. Date:	27-Sep-2023 11:50:20	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	28-Sep-2023 09:02:41	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1680				

First Level Reviewer: RH3X Date: 27-Sep-2023 12:35:03

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.909	1.900	0.009	37444	-3.39	
2	2.185	2.172	0.013	22596	0.0498	

QC Flag Legend

Processing Flags

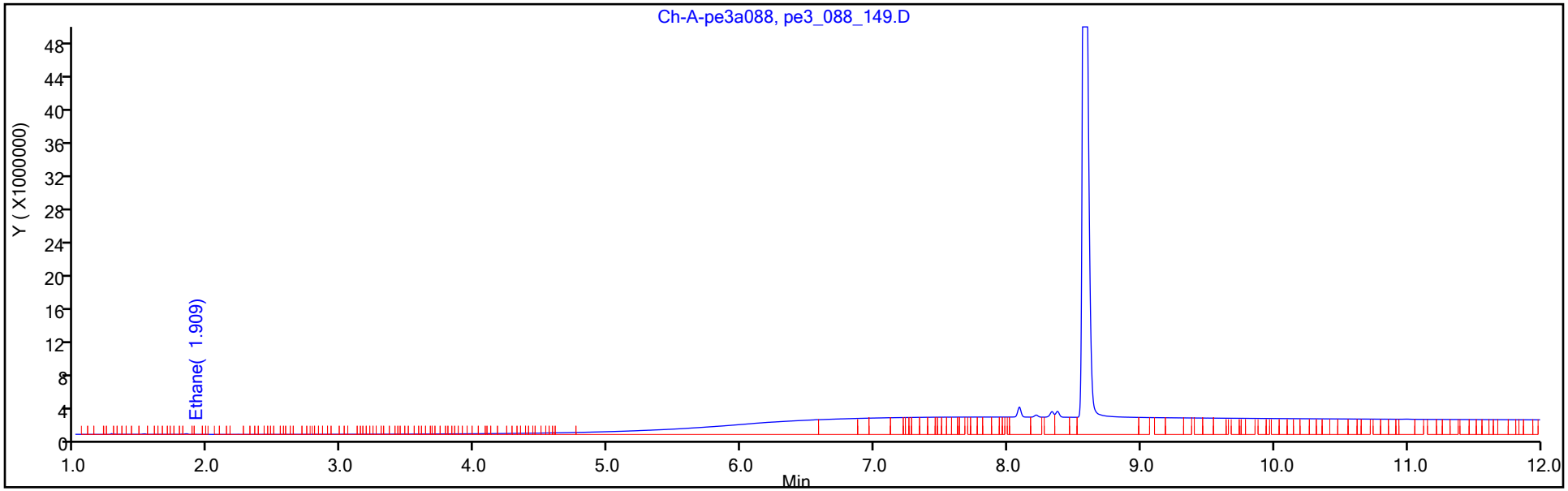
Report Date: 28-Sep-2023 09:02:45 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

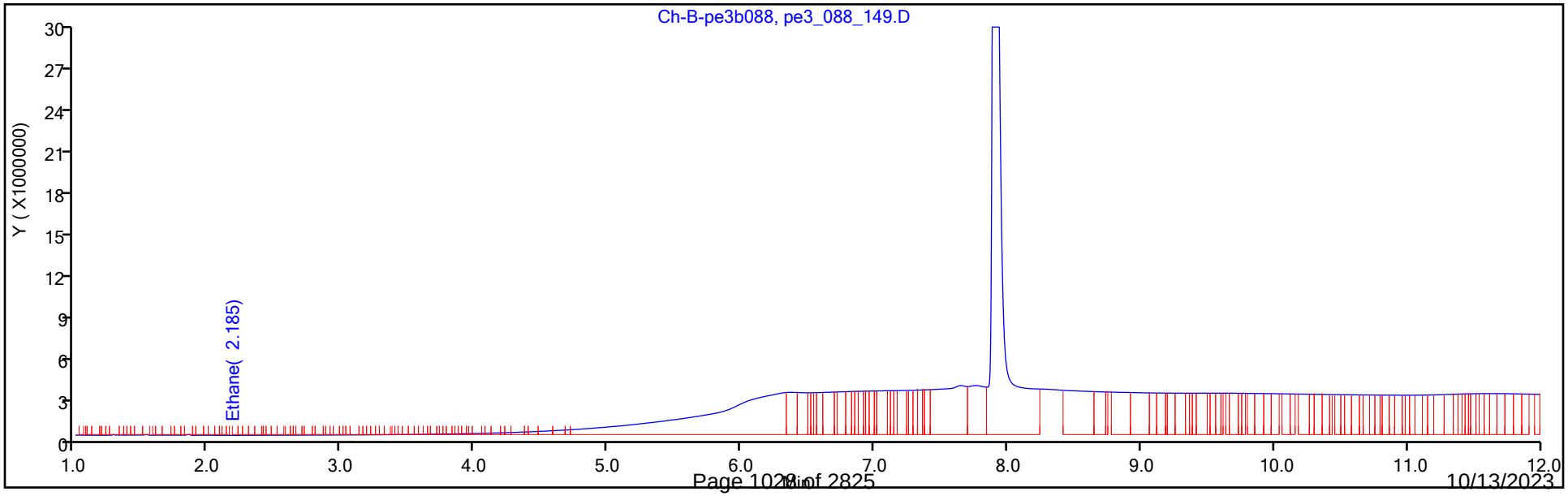
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_149.D

Injection Date:	27-Sep-2023 11:50:20	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213061-F-1	Lab Sample ID:	480-213061-1	Worklist Smp#:	6
Client ID:	GW-13D-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023 | Lab Sample ID: 480-213061-2

Matrix: Water | Lab File ID: pe3_088_148.D

Analysis Method: RSK-175 | Date Collected: 09/25/2023 13:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/27/2023 11:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685202 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_148.D
Lims ID: 480-213061-F-2
Client ID: SW-B-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 11:31:24 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 28-Sep-2023 09:02:41 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1680

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Methane						
1	1.521	1.521	0.000	2738019	4.33	
2	1.536	1.536	0.000	2032699	5.71	
2 Ethane						
1	1.909	1.900	0.009	39464	-3.39	
2	2.168	2.172	-0.004	33032	0.0728	
3 Ethylene						
1	2.588	2.589	-0.001	30151	-2.23	
2	2.048	2.044	0.004	23669	0.0745	

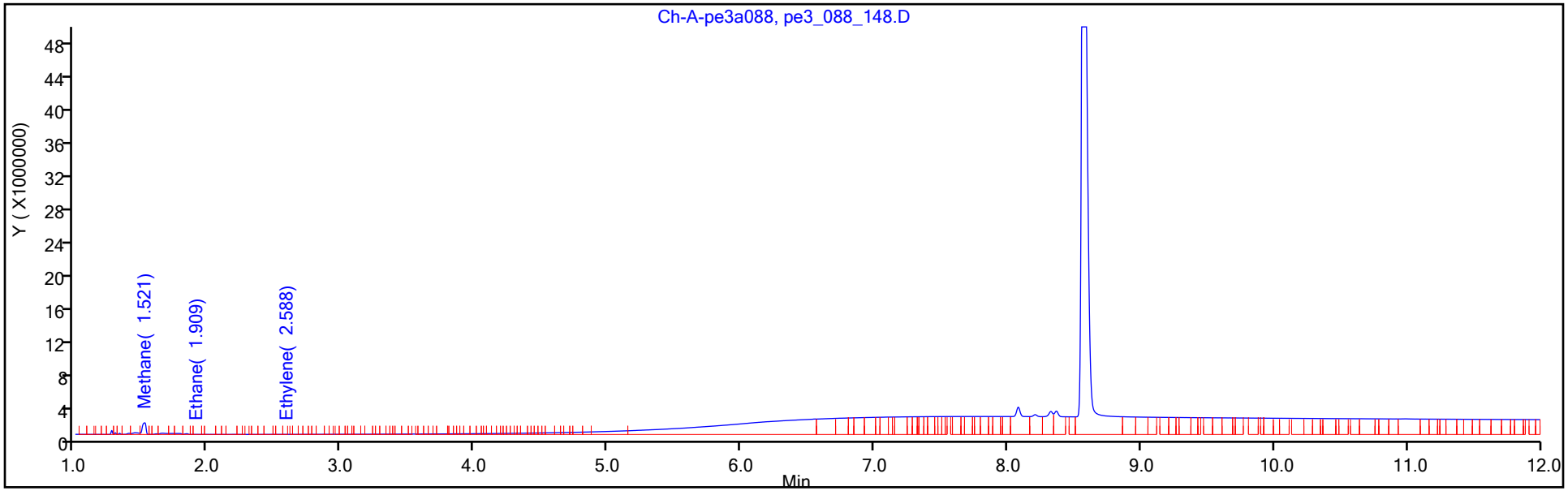
Report Date: 28-Sep-2023 09:02:44 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

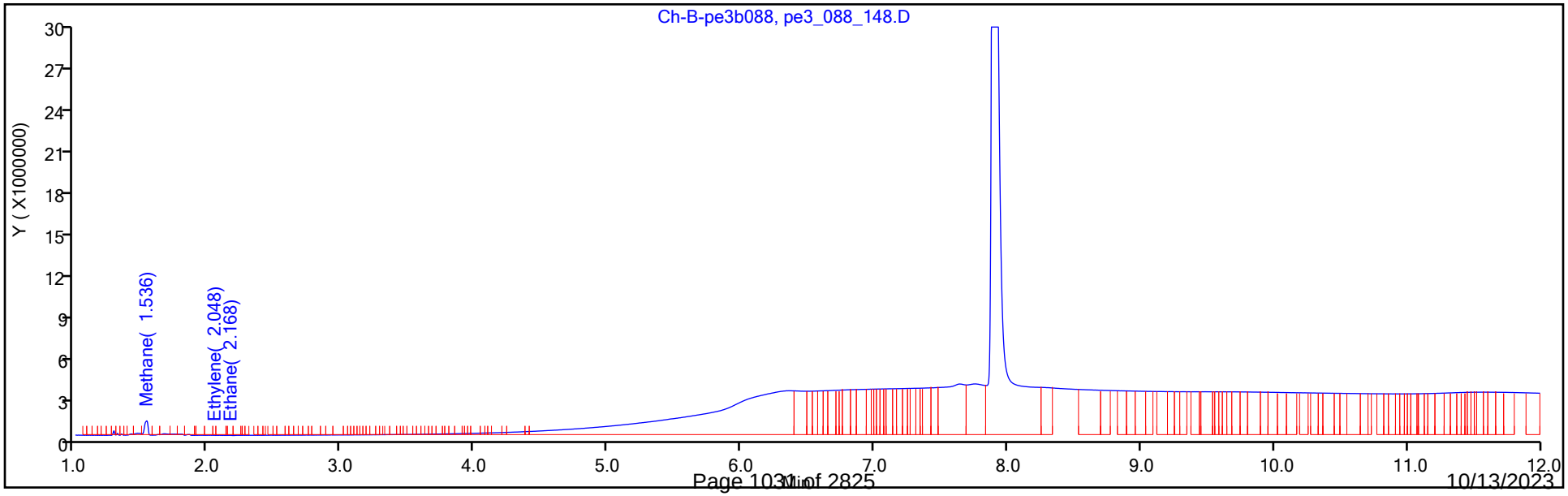
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_148.D

Injection Date:	27-Sep-2023 11:31:24	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213061-F-2	Lab Sample ID:	480-213061-2	Worklist Smp#:	5
Client ID:	SW-B-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: FD-1-09252023 | Lab Sample ID: 480-213061-3

Matrix: Water | Lab File ID: pe3_088_150.D

Analysis Method: RSK-175 | Date Collected: 09/25/2023 00:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/27/2023 12:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685202 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_150.D				
Lims ID:	480-213061-F-3				
Client ID:	FD-1-09252023				
Sample Type:	Client				
Inject. Date:	27-Sep-2023 12:09:11	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	28-Sep-2023 09:02:41	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1680				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.909	1.900	0.009	43759	-3.38	
2	2.153	2.172	-0.019	54002	0.1191	

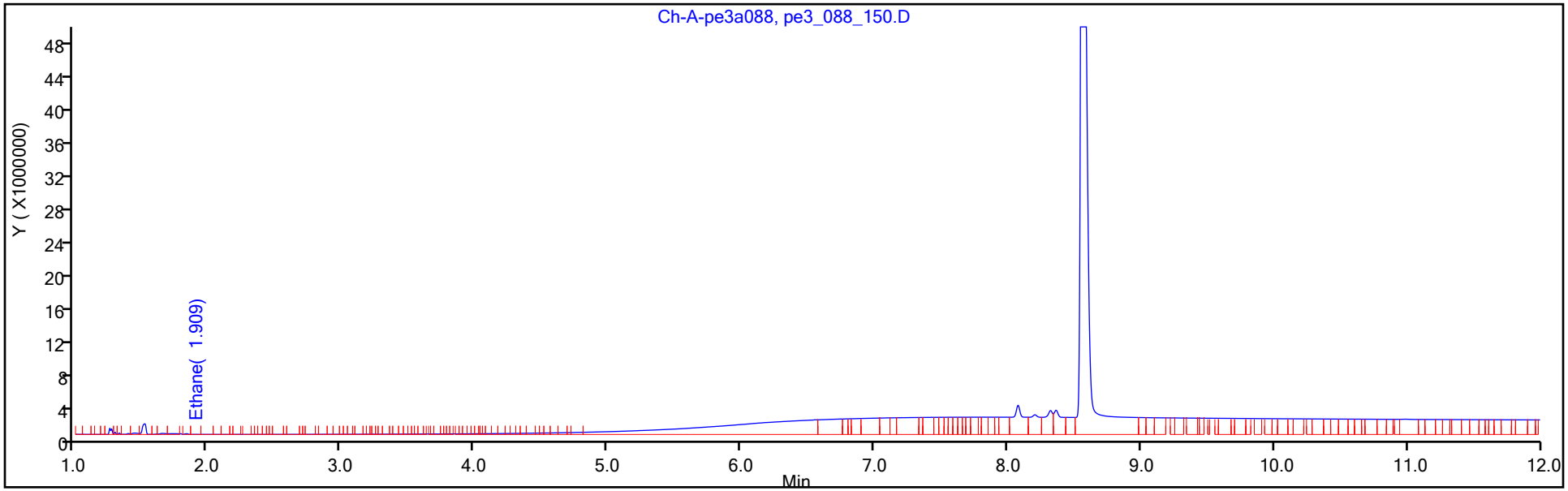
Report Date: 28-Sep-2023 09:02:46 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

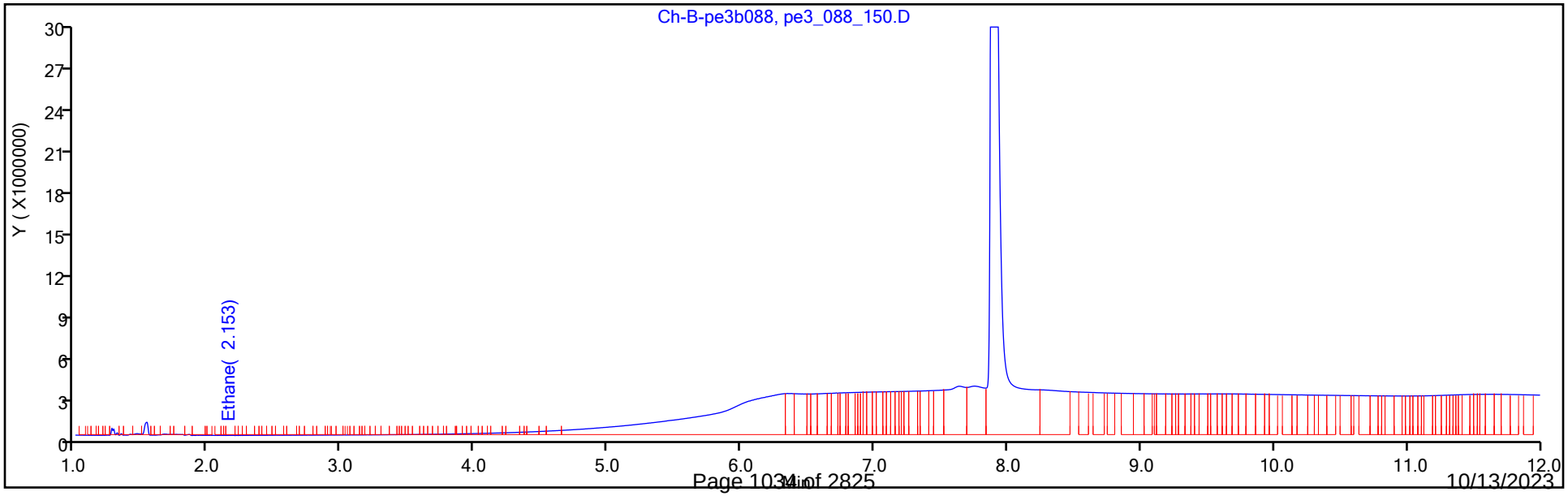
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_150.D

Injection Date:	27-Sep-2023 12:09:11	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213061-F-3	Lab Sample ID:	480-213061-3	Worklist Smp#:	7
Client ID:	FD-1-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-1-09252023 | Lab Sample ID: 480-213061-4

Matrix: Water | Lab File ID: pe3_088_151.D

Analysis Method: RSK-175 | Date Collected: 09/25/2023 00:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/27/2023 12:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685202 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_151.D
Lims ID: 480-213061-F-4
Client ID: EB-1-09252023
Sample Type: Client
Inject. Date: 27-Sep-2023 12:28:03 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 28-Sep-2023 09:02:41 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1680

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.896	1.900	-0.004	40535	-3.39	
2	2.168	2.172	-0.004	43167	0.0952	

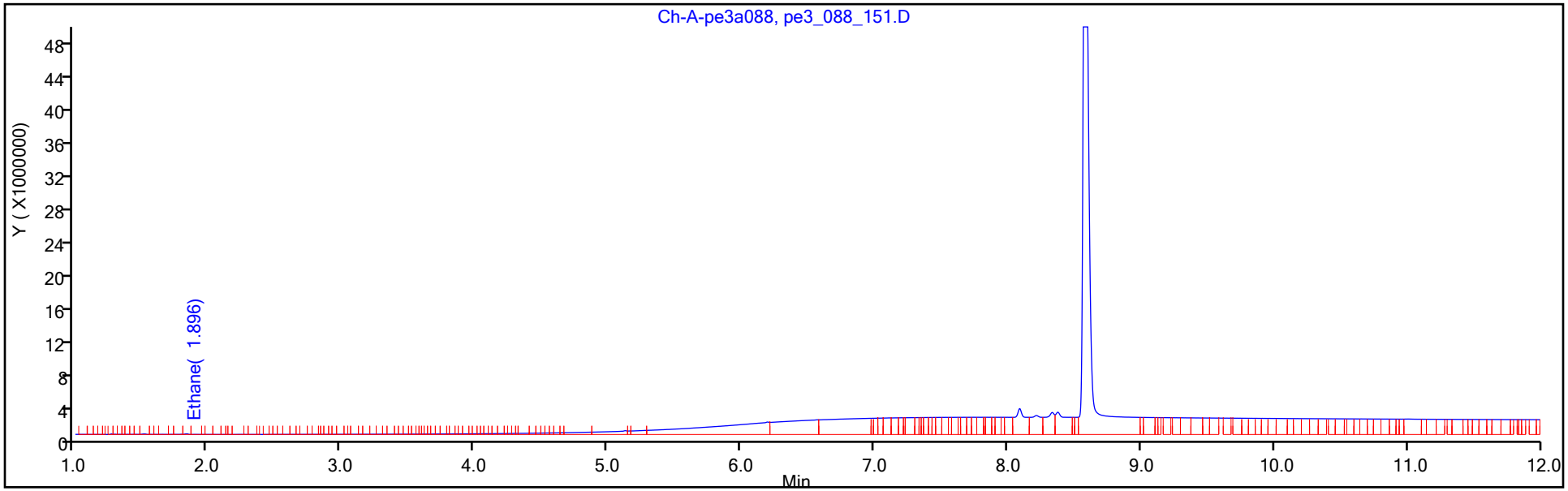
Report Date: 28-Sep-2023 09:02:47 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

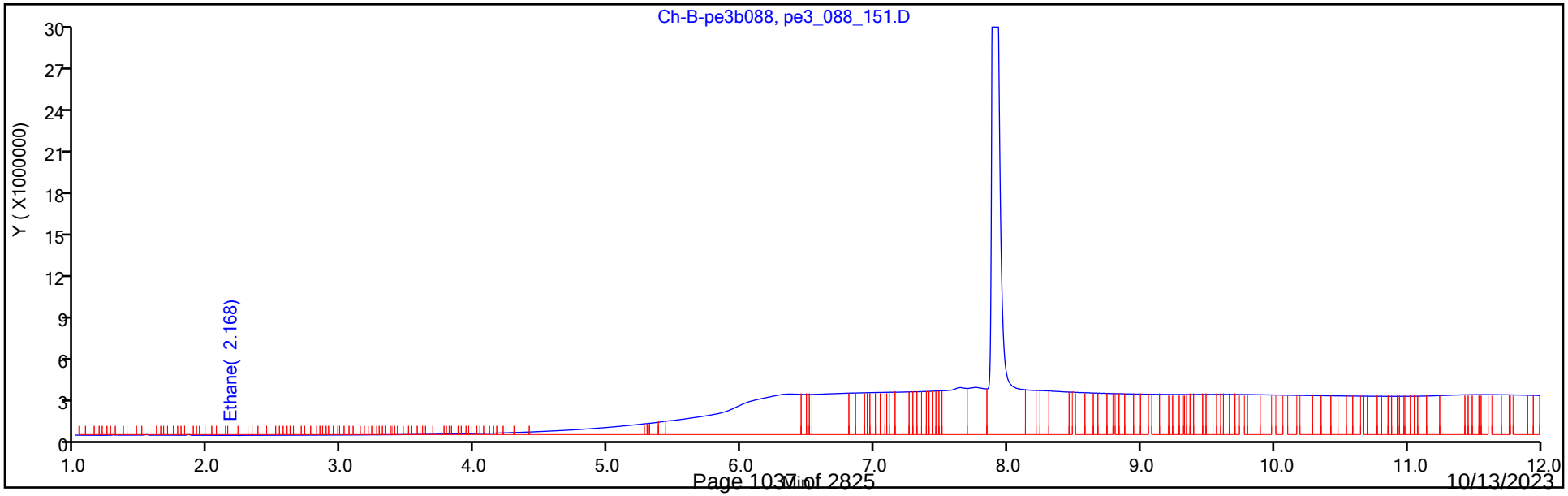
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_151.D

Injection Date:	27-Sep-2023 12:28:03	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213061-F-4	Lab Sample ID:	480-213061-4	Worklist Smp#:	8
Client ID:	EB-1-09252023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-26S-09262023 | Lab Sample ID: 480-213117-1

Matrix: Water | Lab File ID: pe3_088_170.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 09:30

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 12:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_170.D				
Lims ID:	480-213117-D-1				
Client ID:	GW-M-26S-09262023				
Sample Type:	Client				
Inject. Date:	28-Sep-2023 12:14:37	ALS Bottle#:	0	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	29-Sep-2023 06:30:12	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1692				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.912	1.903	0.009	34207	-3.40	
2	2.156	2.172	-0.016	53385	0.1177	

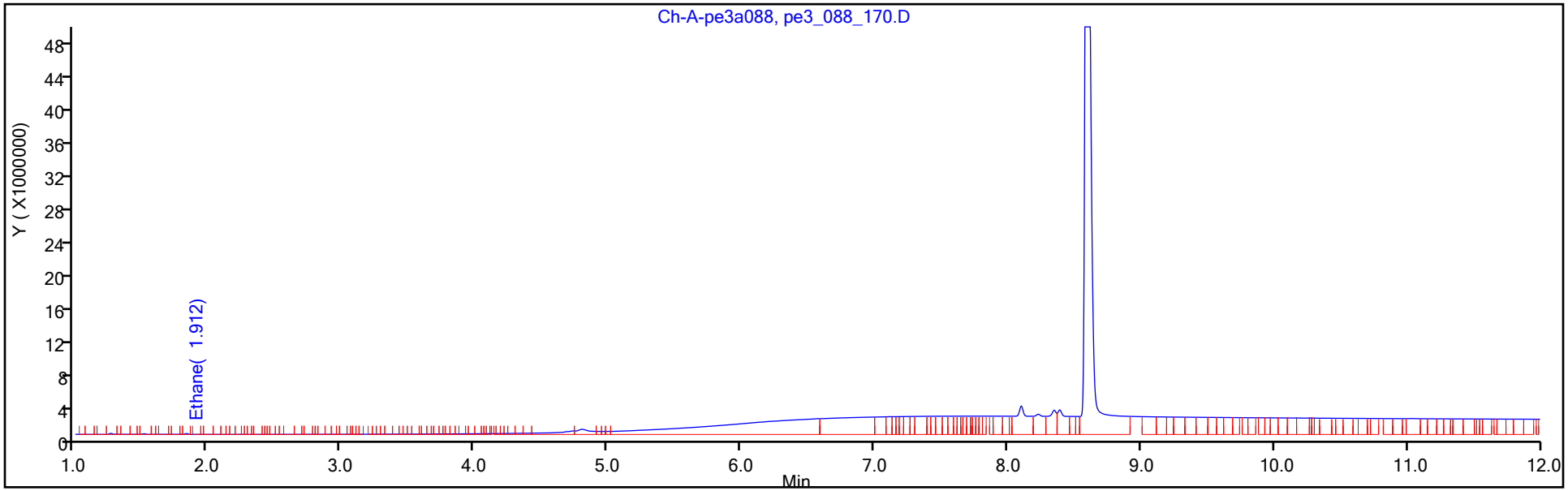
Report Date: 29-Sep-2023 06:30:25 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

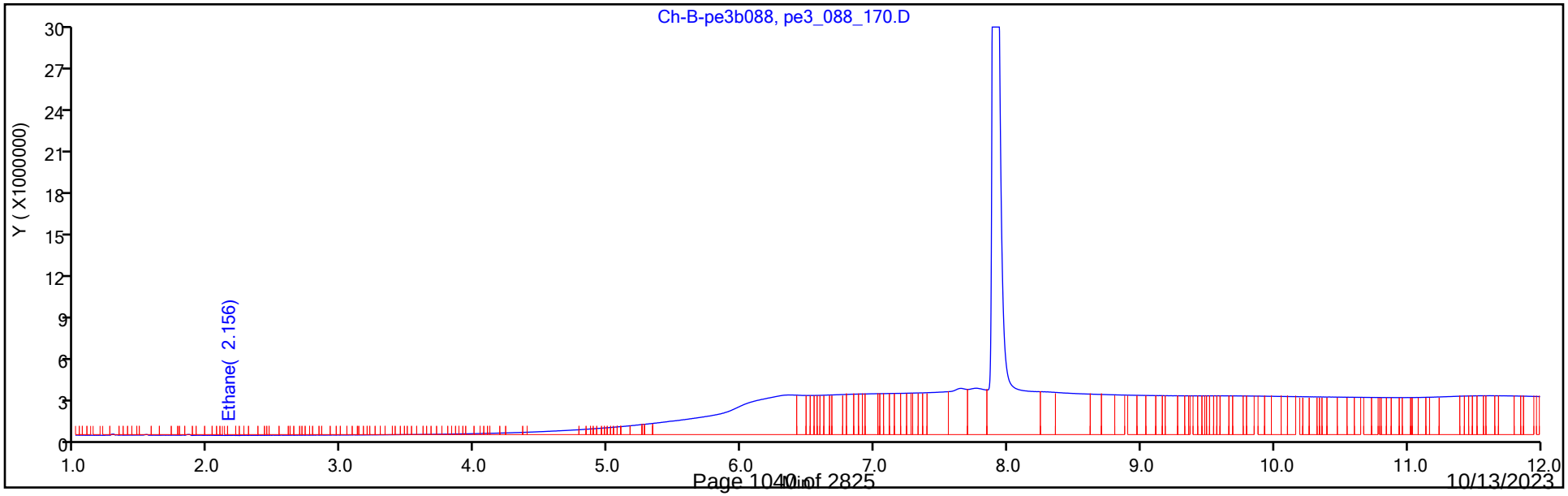
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_170.D

Injection Date:	28-Sep-2023 12:14:37	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-1	Lab Sample ID:	480-213117-1	Worklist Smp#:	10
Client ID:	GW-M-26S-09262023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-26D-09262023 | Lab Sample ID: 480-213117-2

Matrix: Water | Lab File ID: pe3_088_171.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 09:50

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 12:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_171.D
Lims ID: 480-213117-D-2
Client ID: GW-M-26D-09262023
Sample Type: Client
Inject. Date: 28-Sep-2023 12:33:30 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.916	1.903	0.013	59986	-3.34	
2	2.171	2.172	-0.001	38843	0.0856	

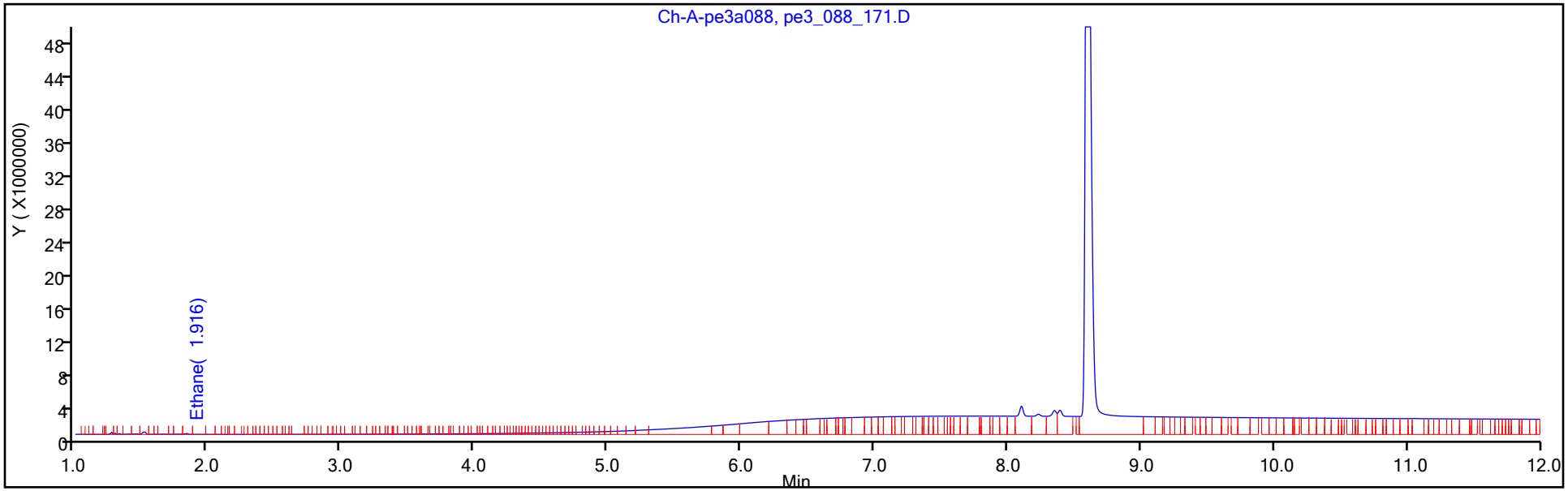
Report Date: 29-Sep-2023 06:30:26 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

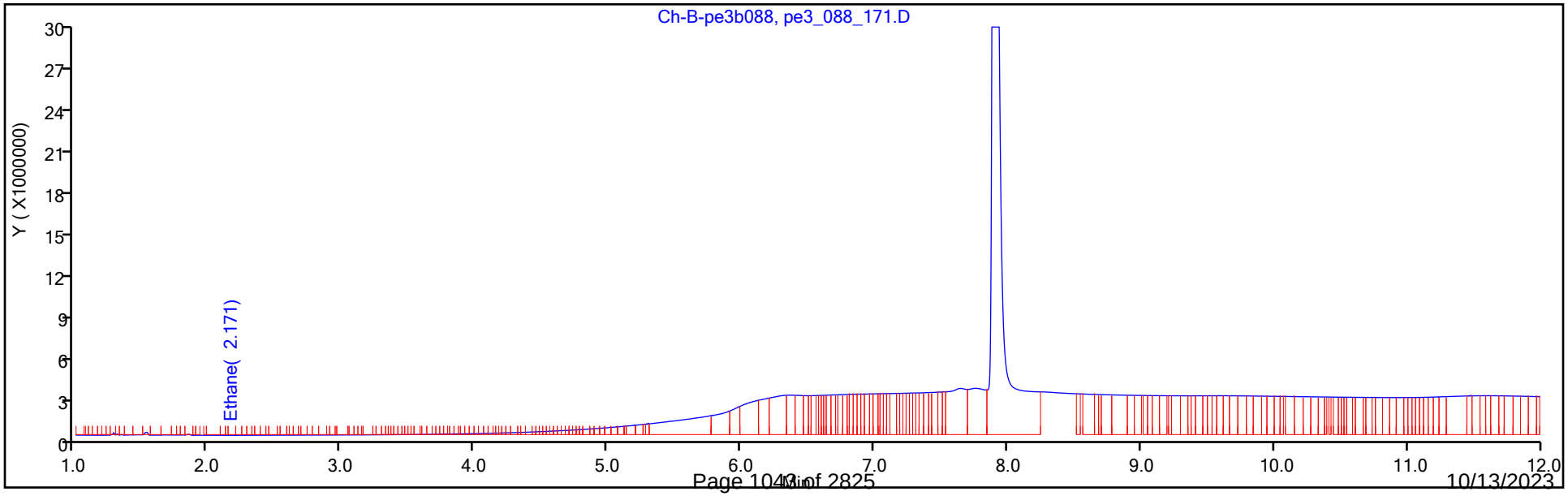
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_171.D

Injection Date:	28-Sep-2023 12:33:30	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-2	Lab Sample ID:	480-213117-2	Worklist Smp#:	11
Client ID:	GW-M-26D-09262023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-11D-09262023 | Lab Sample ID: 480-213117-3

Matrix: Water | Lab File ID: pe3_088_172.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 11:30

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 12:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_172.D
Lims ID: 480-213117-D-3
Client ID: GW-11D-09262023
Sample Type: Client
Inject. Date: 28-Sep-2023 12:52:21 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.909	1.903	0.006	36630	-3.39	
2	2.163	2.172	-0.009	30481	0.0672	

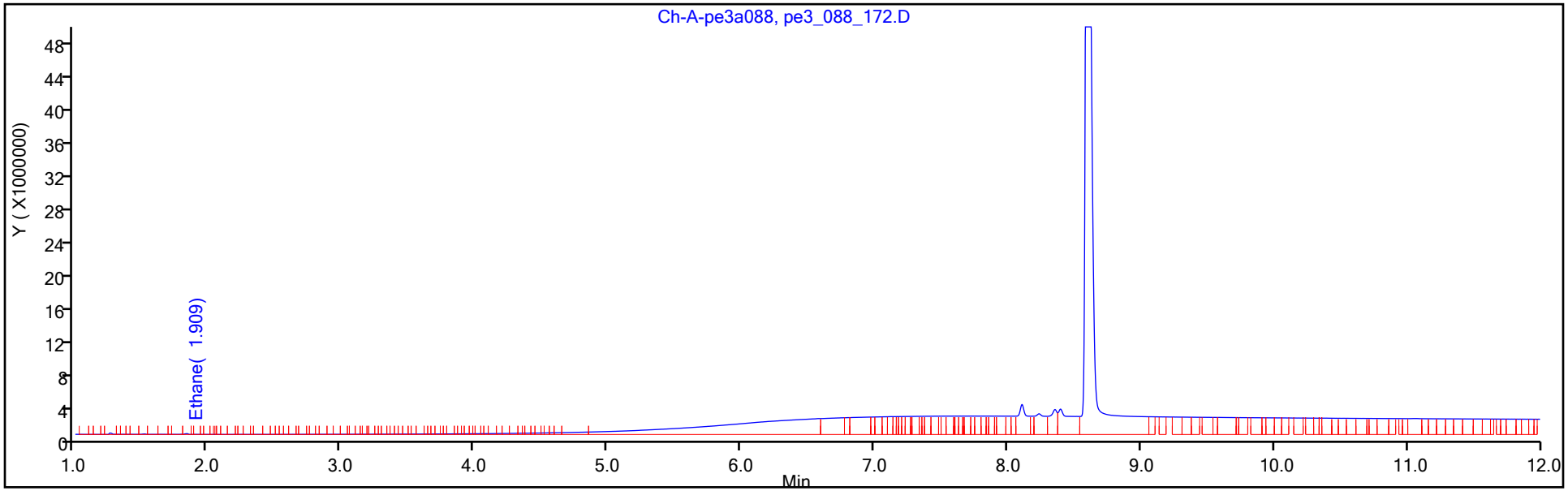
Report Date: 29-Sep-2023 06:30:27 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

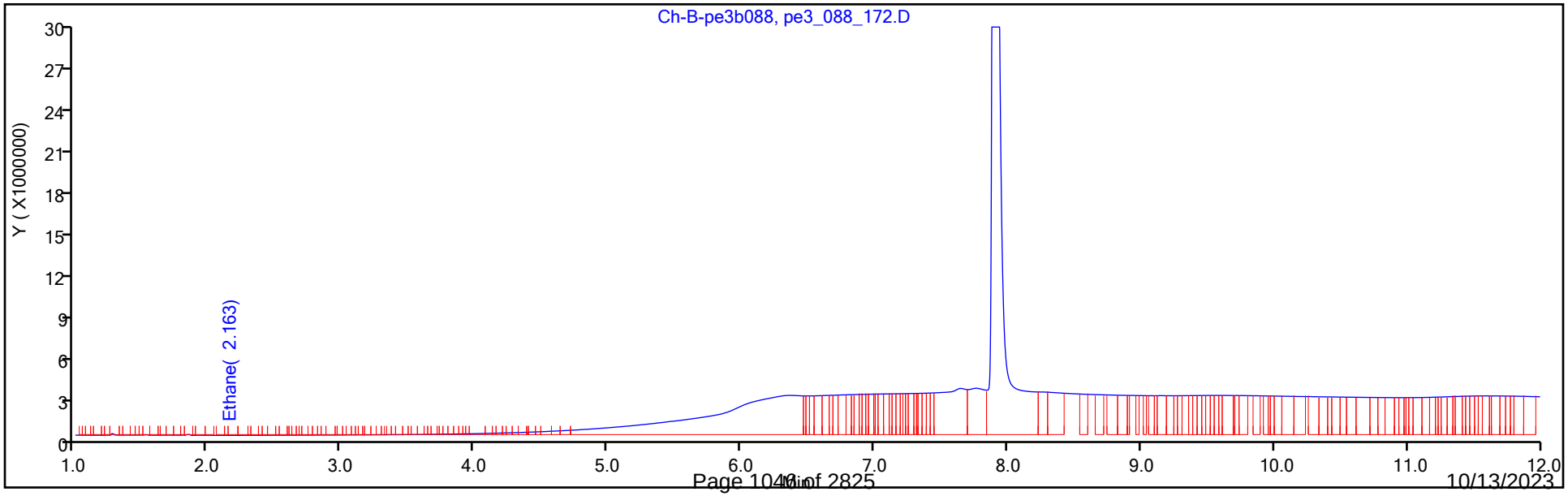
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_172.D

Injection Date:	28-Sep-2023 12:52:21	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-3	Lab Sample ID:	480-213117-3	Worklist Smp#:	12
Client ID:	GW-11D-09262023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: DUP-2-09262023 | Lab Sample ID: 480-213117-4

Matrix: Water | Lab File ID: pe3_088_173.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 00:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 13:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_173.D
Lims ID: 480-213117-D-4
Client ID: DUP-2-09262023
Sample Type: Client
Inject. Date: 28-Sep-2023 13:11:12 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.907	1.903	0.004	62459	-3.34	
2	2.161	2.172	-0.011	47865	0.1055	

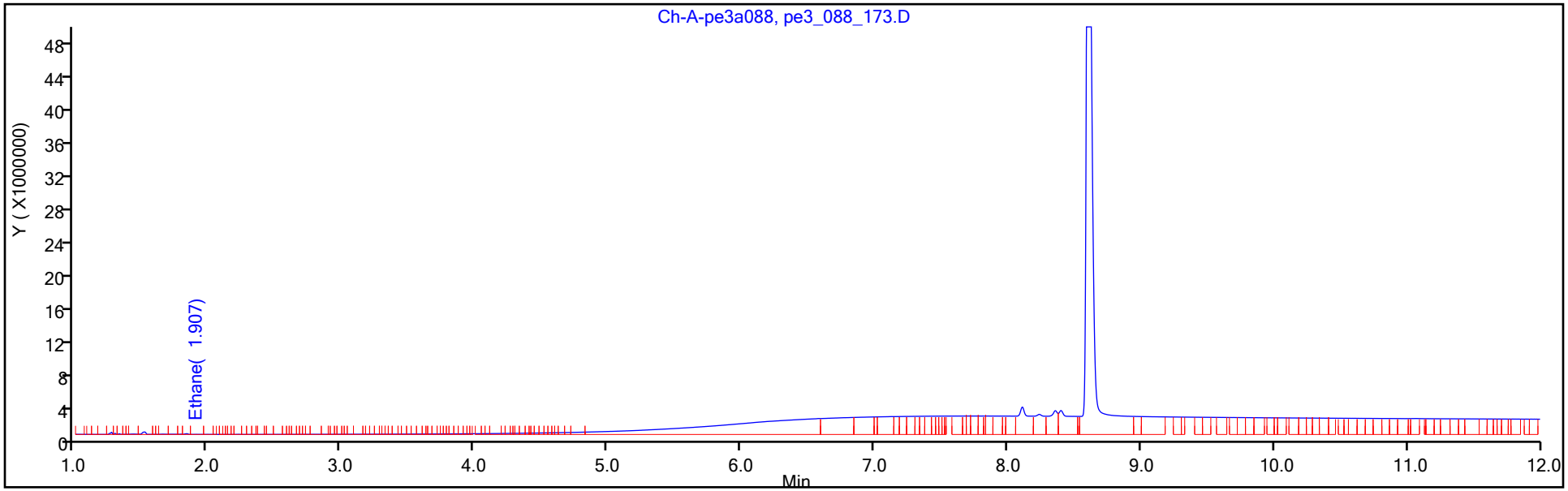
Report Date: 29-Sep-2023 06:30:28 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

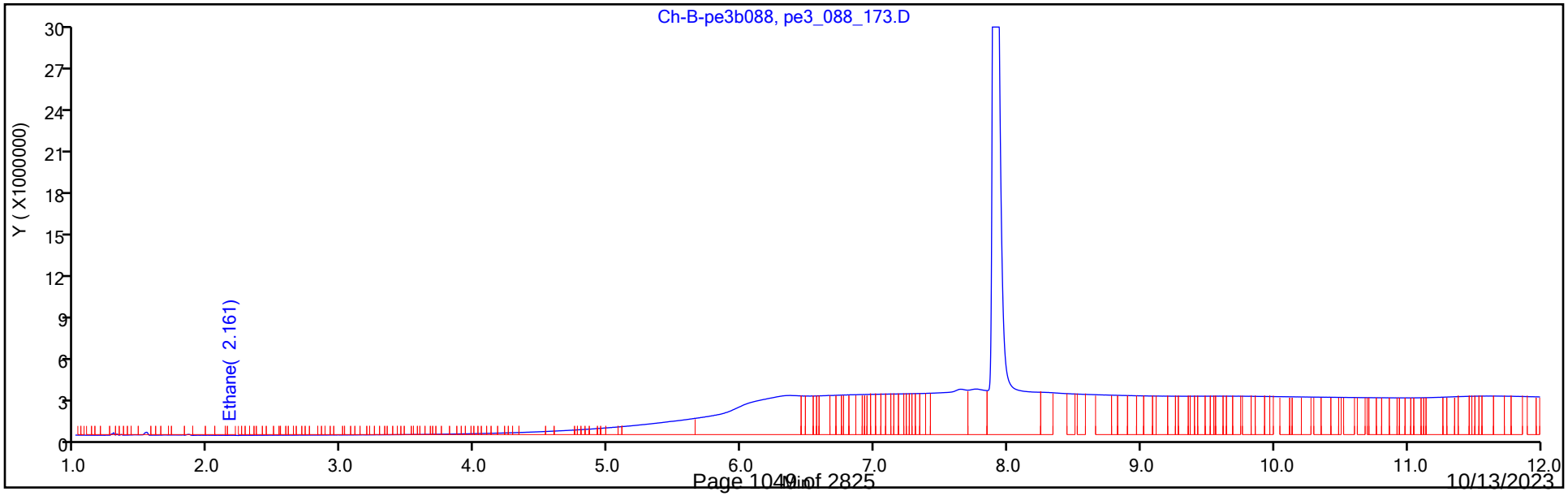
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_173.D

Injection Date:	28-Sep-2023 13:11:12	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-4	Lab Sample ID:	480-213117-4	Worklist Smp#:	13
Client ID:	DUP-2-09262023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023 | Lab Sample ID: 480-213117-5

Matrix: Water | Lab File ID: pe3_088_174.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 13:25

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 13:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_174.D
Lims ID: 480-213117-D-5
Client ID: GW-10S-09262023
Sample Type: Client
Inject. Date: 28-Sep-2023 13:30:04 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Methane						
1	1.520	1.521	-0.001	130981890	279.7	
2	1.532	1.537	-0.005	102940364	289.0	
2 Ethane						
1	1.896	1.903	-0.007	130696	-3.18	
2	2.156	2.172	-0.016	133619	0.2946	
3 Ethylene						
1	2.616	2.597	0.019	10148	-2.28	
2	2.065	2.044	0.021	21308	0.0671	

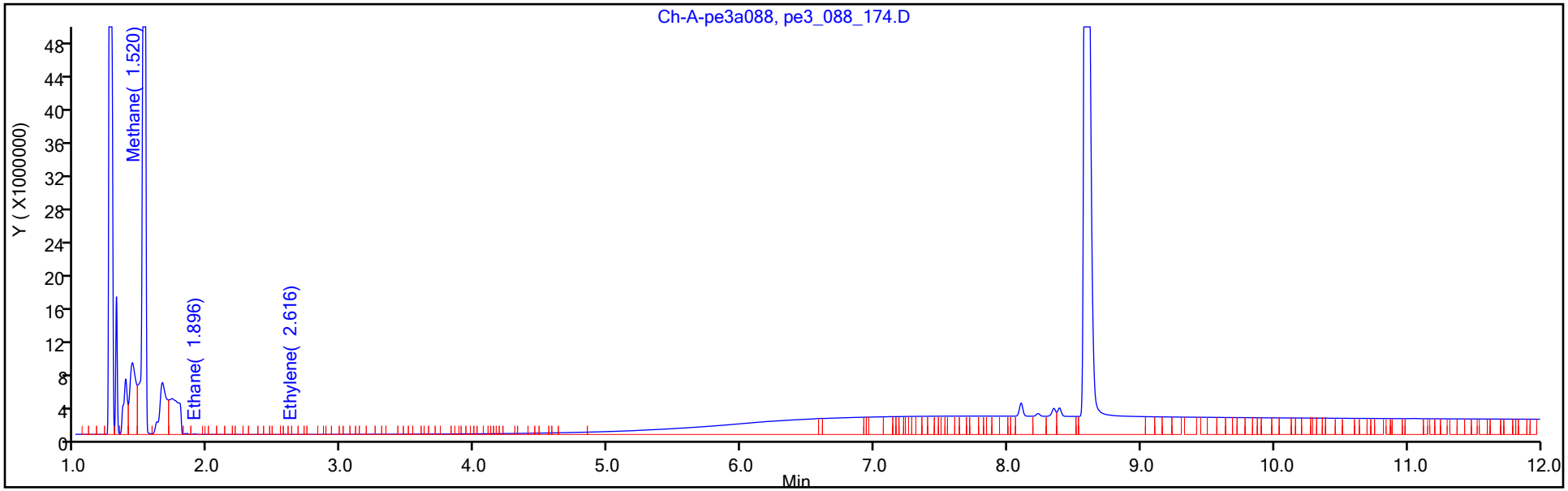
Report Date: 29-Sep-2023 06:30:29 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

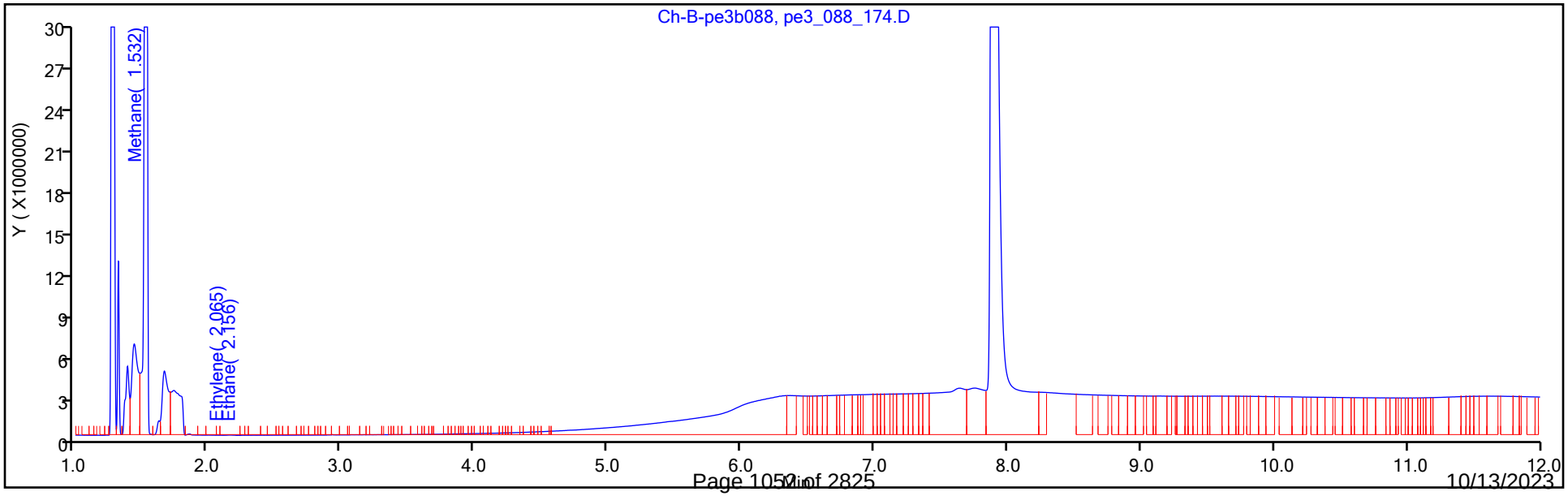
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_174.D

Injection Date:	28-Sep-2023 13:30:04	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-5	Lab Sample ID:	480-213117-5	Worklist Smp#:	14
Client ID:	GW-10S-09262023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-13S-09262023 | Lab Sample ID: 480-213117-6

Matrix: Water | Lab File ID: pe3_088_175.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 15:05

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 13:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_175.D
Lims ID: 480-213117-D-6
Client ID: GW-13S-09262023
Sample Type: Client
Inject. Date: 28-Sep-2023 13:48:55 ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.907	1.903	0.004	45899	-3.37	
2	2.179	2.172	0.007	33917	0.0748	

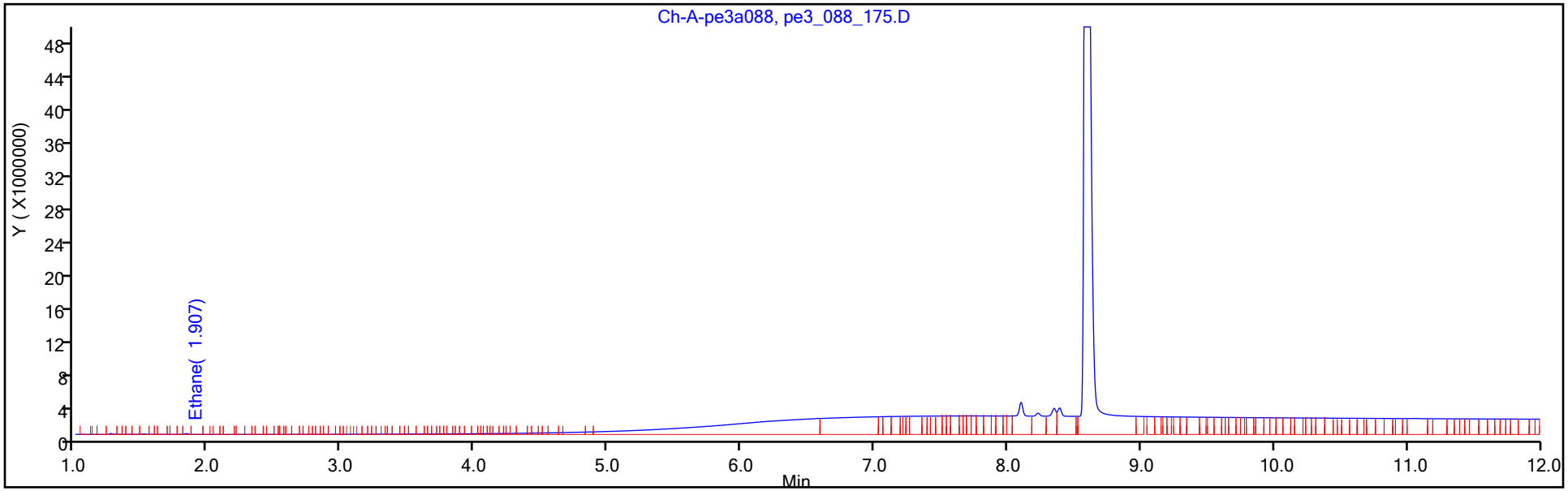
Report Date: 29-Sep-2023 06:30:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

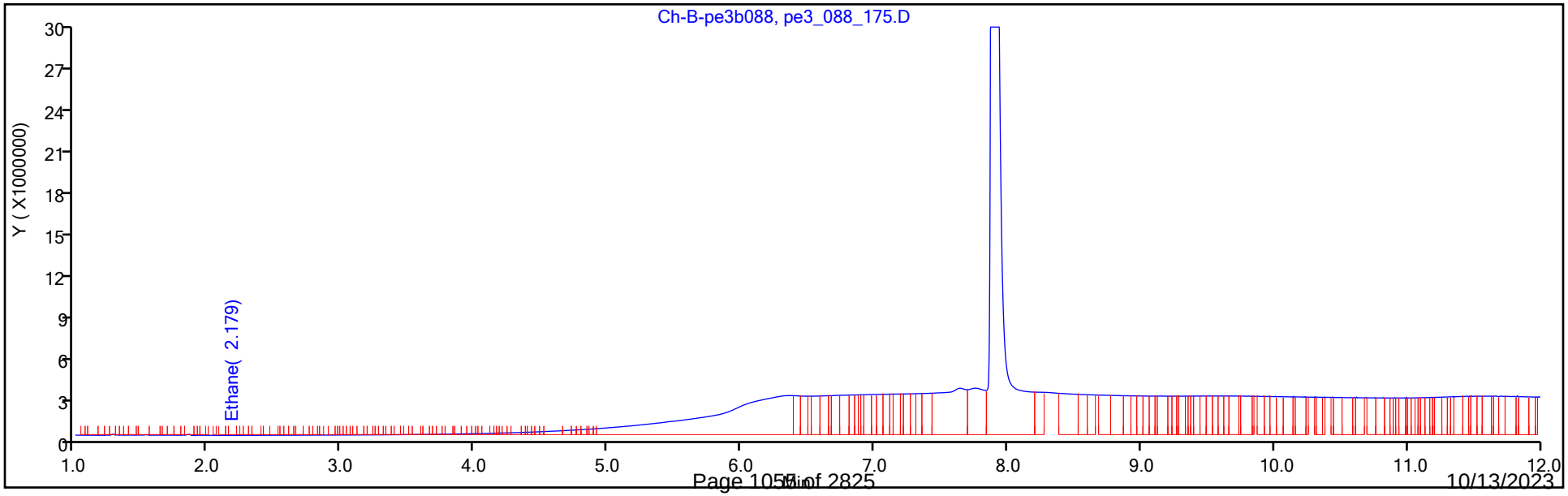
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_175.D

Injection Date:	28-Sep-2023 13:48:55	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-6	Lab Sample ID:	480-213117-6	Worklist Smp#:	15
Client ID:	GW-13S-09262023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-27D-09262023 | Lab Sample ID: 480-213117-7

Matrix: Water | Lab File ID: pe3_088_176.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 16:30

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 14:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_176.D
Lims ID: 480-213117-D-7
Client ID: GW-M-27D-09262023
Sample Type: Client
Inject. Date: 28-Sep-2023 14:07:47 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.895	1.903	-0.008	13494	-3.45	
2	2.160	2.172	-0.012	27691	0.0611	

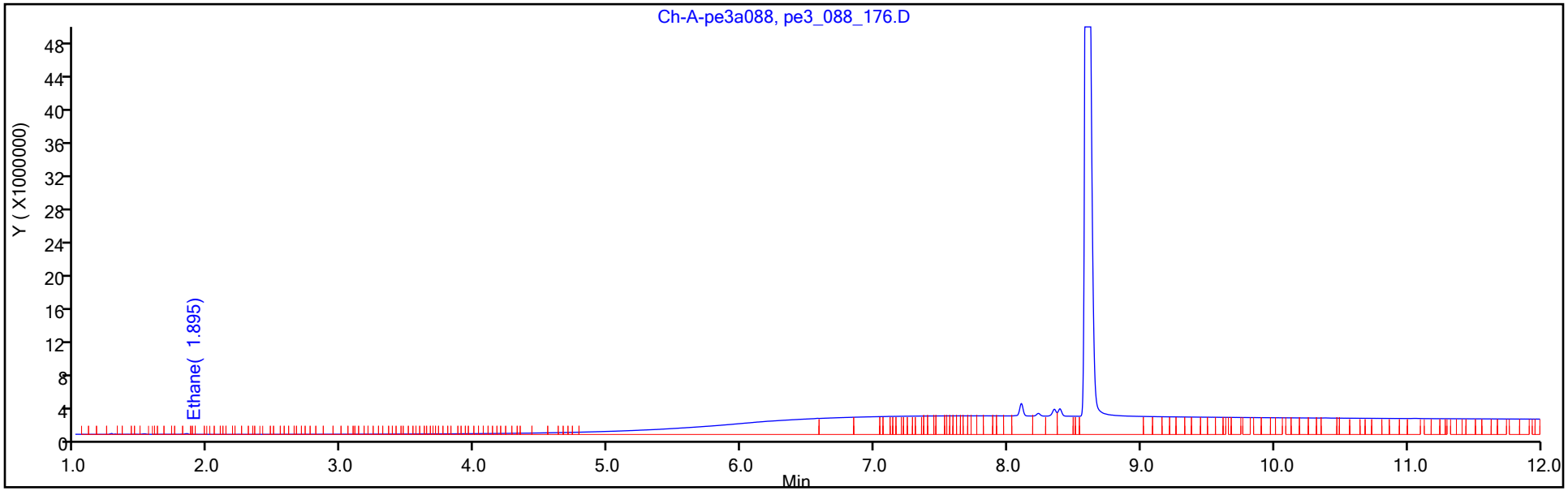
Report Date: 29-Sep-2023 06:30:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

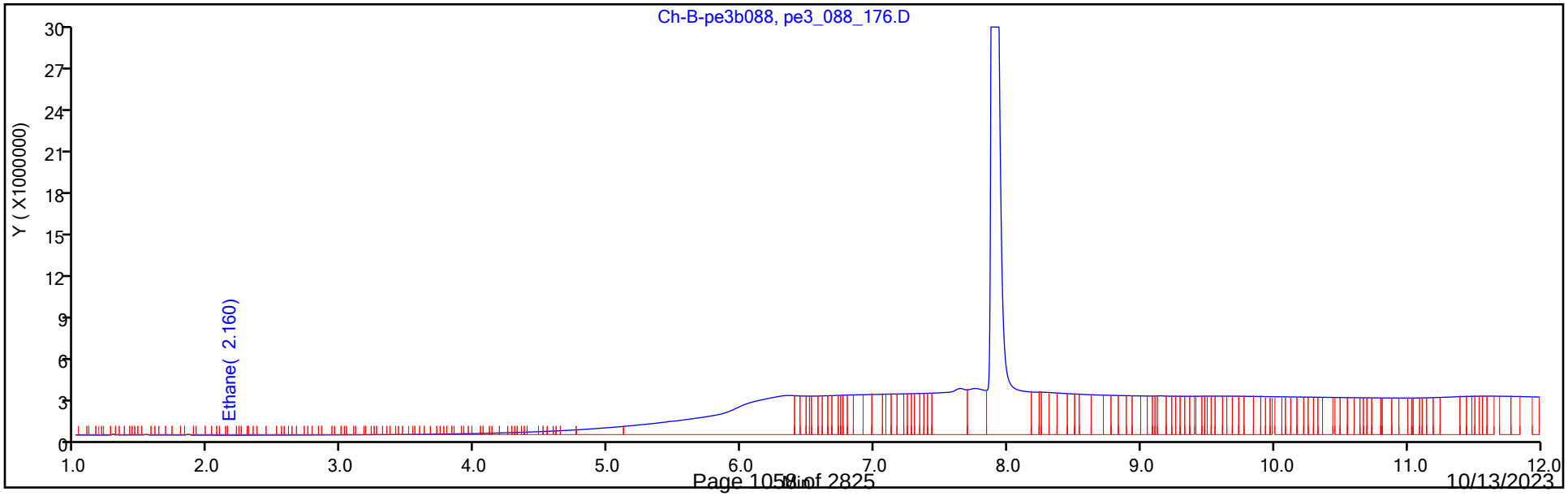
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_176.D

Injection Date:	28-Sep-2023 14:07:47	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-7	Lab Sample ID:	480-213117-7	Worklist Smp#:	16
Client ID:	GW-M-27D-09262023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-2-09262023 | Lab Sample ID: 480-213117-8

Matrix: Water | Lab File ID: pe3_088_177.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 00:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 14:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_177.D
Lims ID: 480-213117-D-8
Client ID: EB-2-09262023
Sample Type: Client
Inject. Date: 28-Sep-2023 14:26:38 ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.908	1.903	0.005	46108	-3.37	
2	2.165	2.172	-0.007	23556	0.0519	

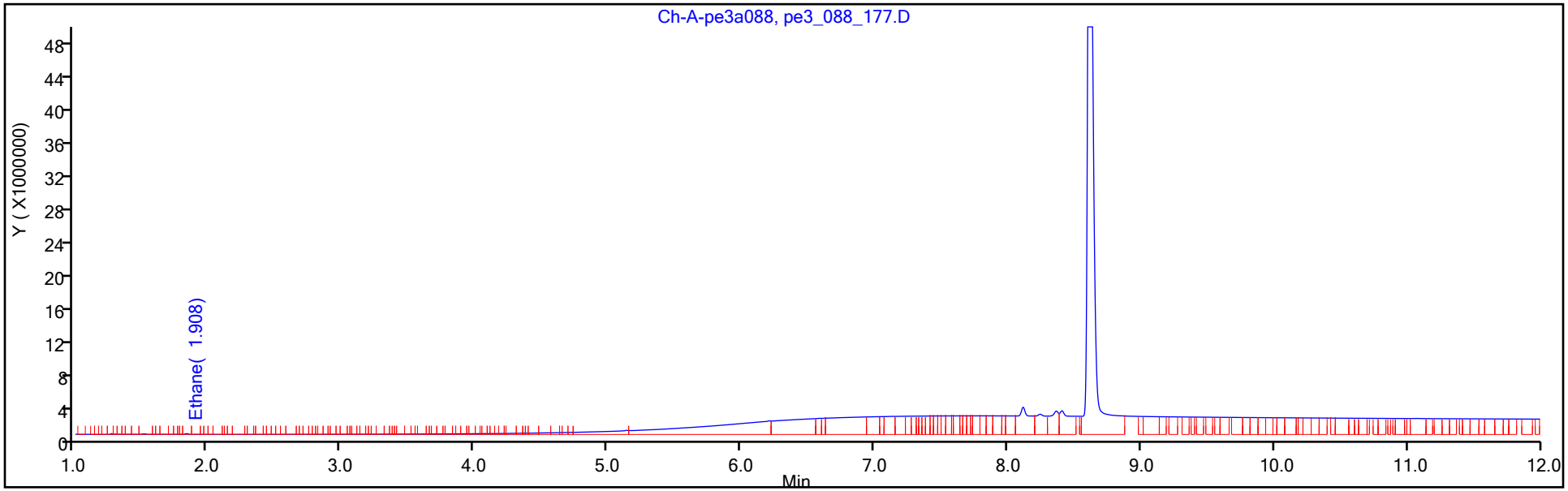
Report Date: 29-Sep-2023 06:30:31 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

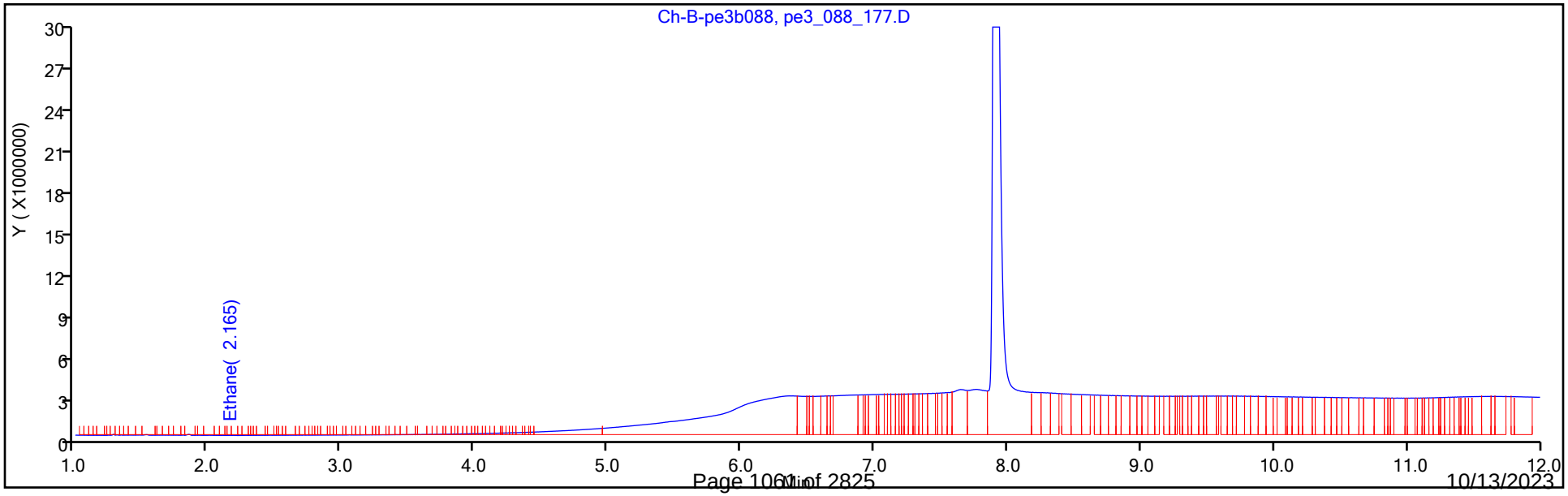
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_177.D

Injection Date:	28-Sep-2023 14:26:38	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-8	Lab Sample ID:	480-213117-8	Worklist Smp#:	17
Client ID:	EB-2-09262023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-D-09272023 | Lab Sample ID: 480-213168-1

Matrix: Water | Lab File ID: pe3_088_186.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 16:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 08:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_186.D				
Lims ID:	480-213168-F-1				
Client ID:	SW-D-09272023				
Sample Type:	Client				
Inject. Date:	29-Sep-2023 08:44:05	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	29-Sep-2023 12:45:14	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1692				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.912	1.903	0.009	41468	-3.38	
2	2.147	2.172	-0.025	38422	0.0847	

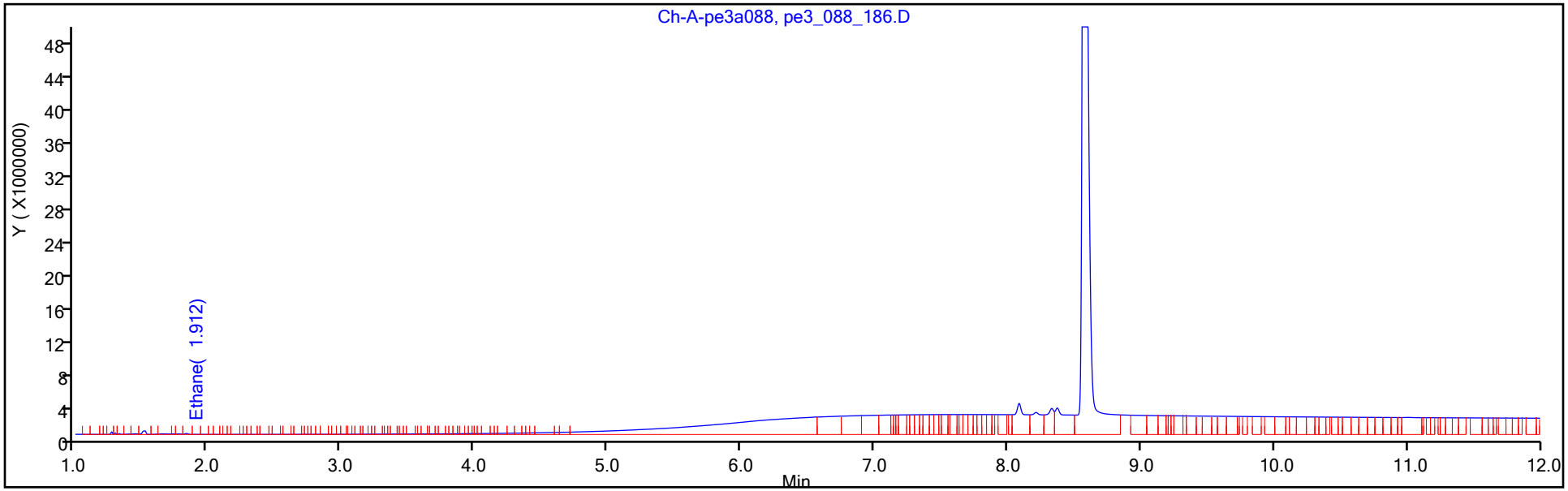
Report Date: 29-Sep-2023 12:45:19 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

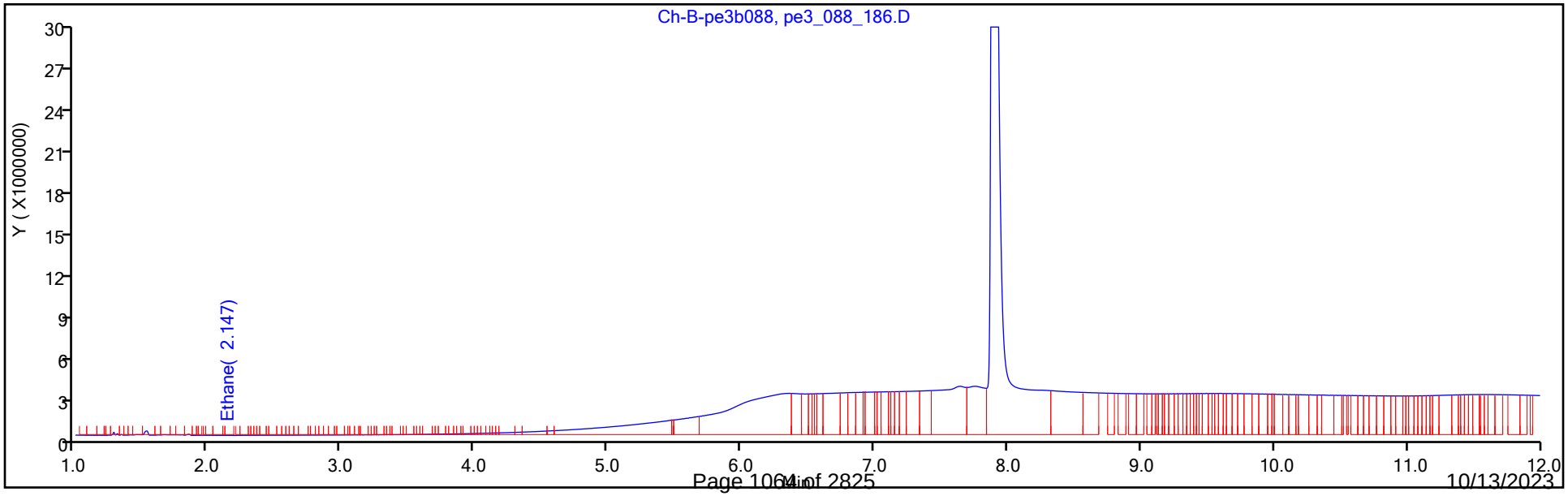
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_186.D

Injection Date:	29-Sep-2023 08:44:05	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-1	Lab Sample ID:	480-213168-1	Worklist Smp#:	6
Client ID:	SW-D-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-28S-09272023 | Lab Sample ID: 480-213168-2

Matrix: Water | Lab File ID: pe3_088_187.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 14:05

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 09:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_187.D				
Lims ID:	480-213168-F-2				
Client ID:	GW-M-28S-09272023				
Sample Type:	Client				
Inject. Date:	29-Sep-2023 09:03:00	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	29-Sep-2023 12:45:14	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1692				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.895	1.903	-0.008	45691	-3.37	
2	2.149	2.172	-0.023	30238	0.0667	

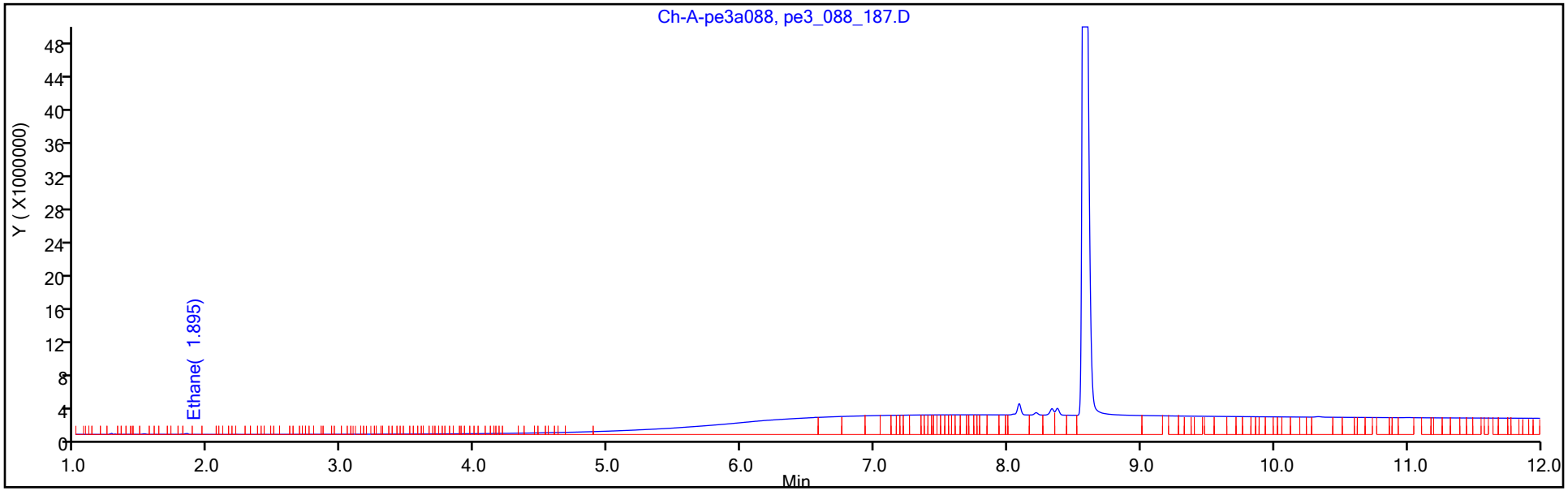
Report Date: 29-Sep-2023 12:45:20 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

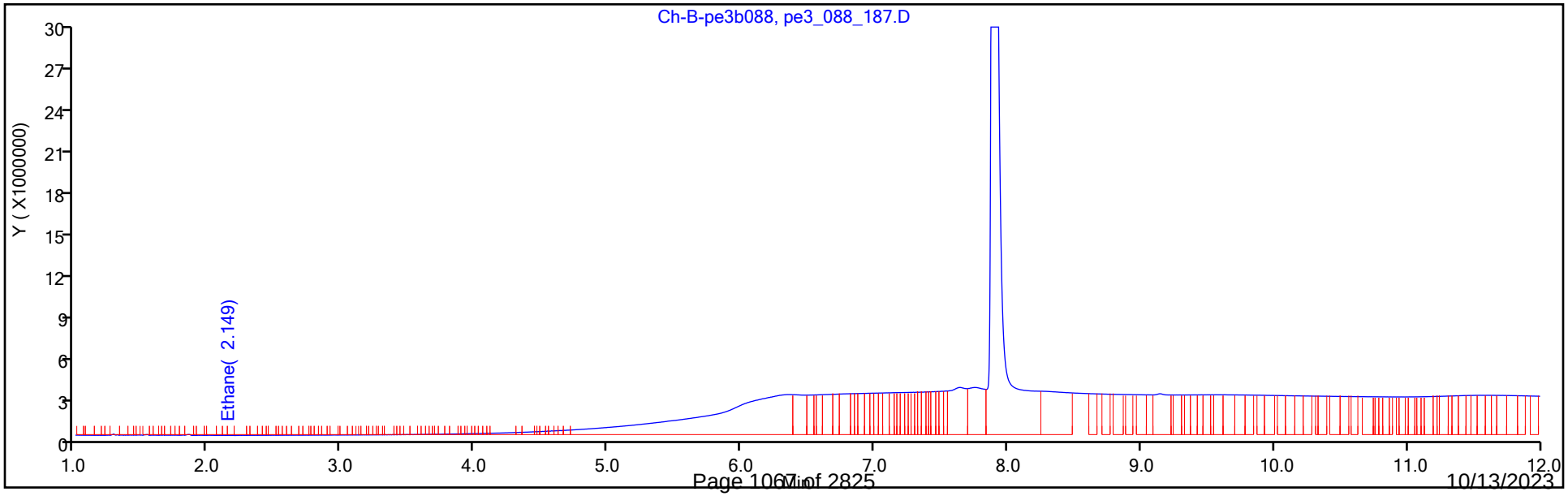
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_187.D

Injection Date:	29-Sep-2023 09:03:00	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-2	Lab Sample ID:	480-213168-2	Worklist Smp#:	7
Client ID:	GW-M-28S-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-29S-09272023 | Lab Sample ID: 480-213168-3

Matrix: Water | Lab File ID: pe3_088_188.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 12:45

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 09:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_188.D				
Lims ID:	480-213168-F-3				
Client ID:	GW-M-29S-09272023				
Sample Type:	Client				
Inject. Date:	29-Sep-2023 09:21:52	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	29-Sep-2023 12:45:14	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1692				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.896	1.903	-0.007	39232	-3.39	
2	2.184	2.172	0.012	19354	0.0427	

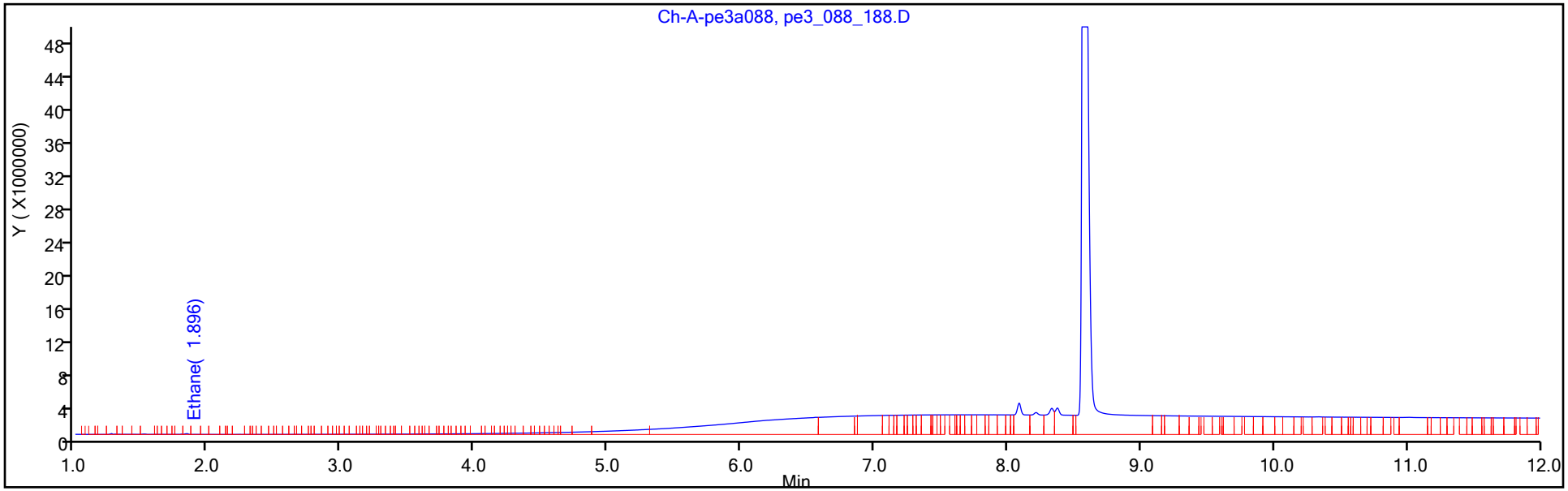
Report Date: 29-Sep-2023 12:45:21 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

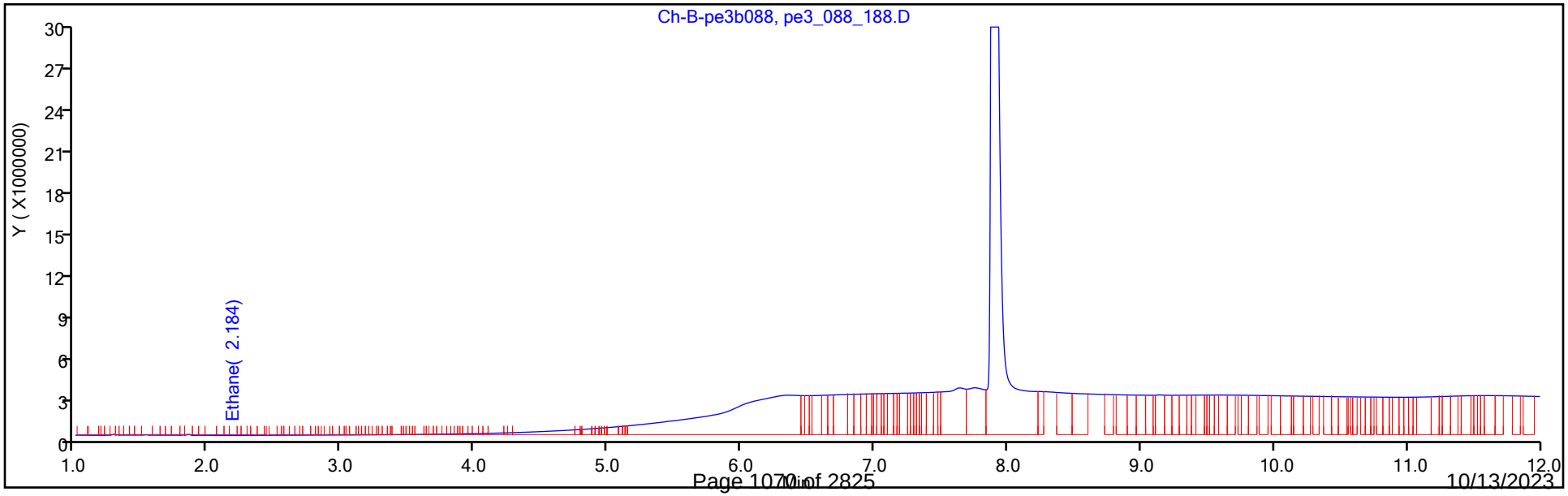
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_188.D

Injection Date:	29-Sep-2023 09:21:52	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-3	Lab Sample ID:	480-213168-3	Worklist Smp#:	8
Client ID:	GW-M-29S-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-MW-4-09272023 | Lab Sample ID: 480-213168-4

Matrix: Water | Lab File ID: pe3_088_189.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 11:05

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 09:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_189.D
Lims ID: 480-213168-F-4
Client ID: GW-MW-4-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 09:40:43 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 12:45:14 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.912	1.903	0.009	40861	-3.38	
2	2.195	2.172	0.023	31231	0.0689	

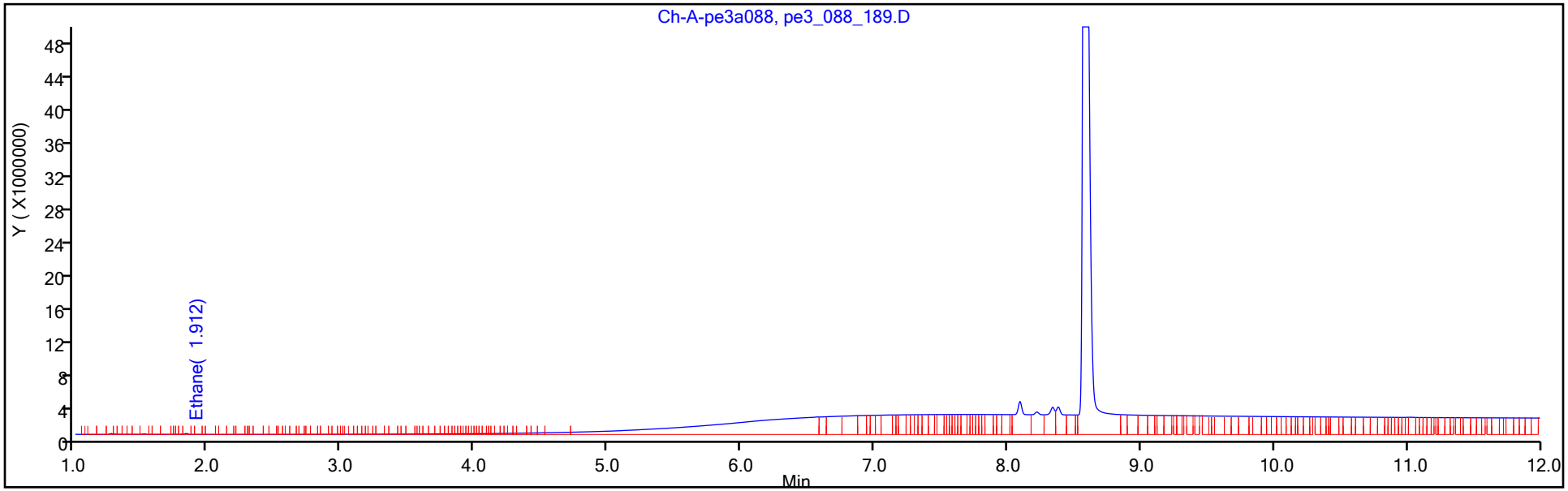
Report Date: 29-Sep-2023 12:45:22 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

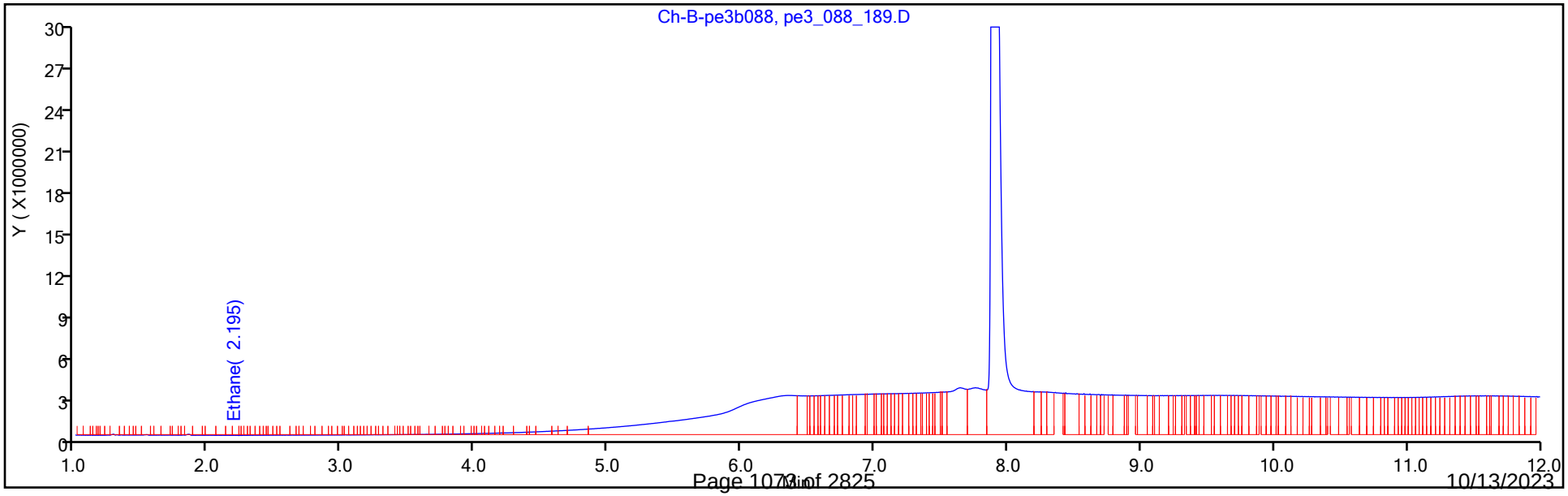
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_189.D

Injection Date:	29-Sep-2023 09:40:43	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-4	Lab Sample ID:	480-213168-4	Worklist Smp#:	9
Client ID:	GW-MW-4-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-29D-09272023 | Lab Sample ID: 480-213168-5

Matrix: Water | Lab File ID: pe3_088_190.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 12:40

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 09:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_190.D
Lims ID: 480-213168-F-5
Client ID: GW-M-29D-09272023
Sample Type: Client
Inject. Date: 29-Sep-2023 09:59:35 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 12:45:14 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.893	1.903	-0.010	38873	-3.39	
2	2.193	2.172	0.021	23021	0.0508	

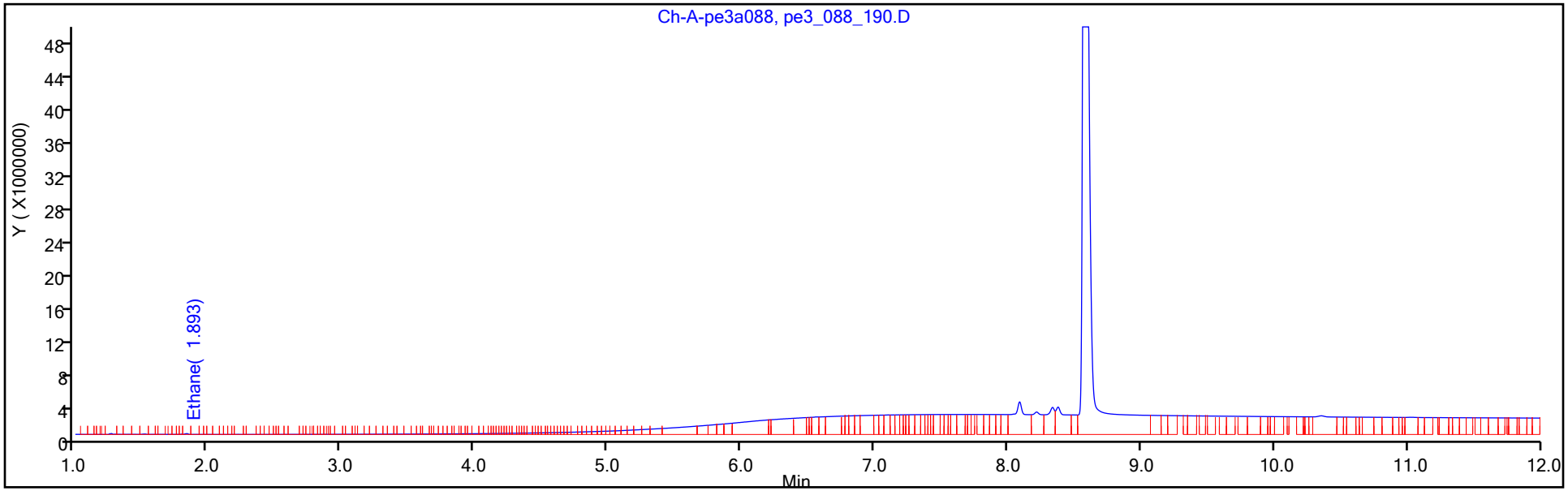
Report Date: 29-Sep-2023 12:45:23 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

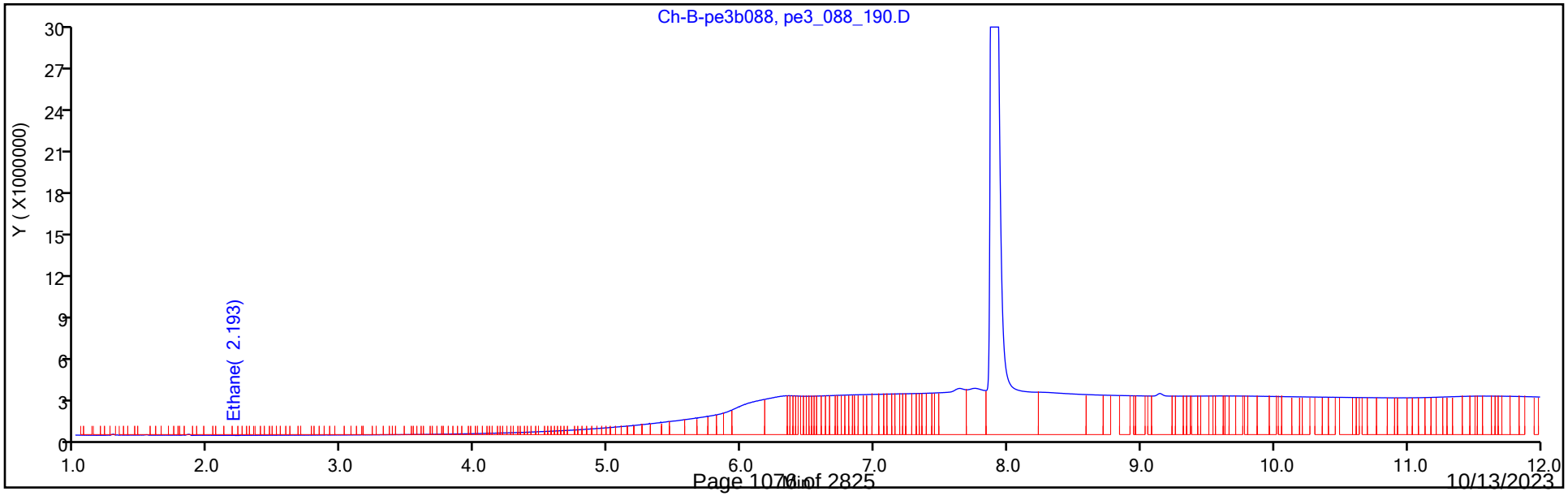
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_190.D

Injection Date:	29-Sep-2023 09:59:35	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-5	Lab Sample ID:	480-213168-5	Worklist Smp#:	10
Client ID:	GW-M-29D-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-25D-09272023 | Lab Sample ID: 480-213168-6

Matrix: Water | Lab File ID: pe3_088_191.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 15:20

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 10:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_191.D				
Lims ID:	480-213168-F-6				
Client ID:	GW-M-25D-09272023				
Sample Type:	Client				
Inject. Date:	29-Sep-2023 10:18:27	ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	29-Sep-2023 12:45:14	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1692				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.892	1.903	-0.011	39646	-3.39	
2	2.173	2.172	0.001	27509	0.0607	

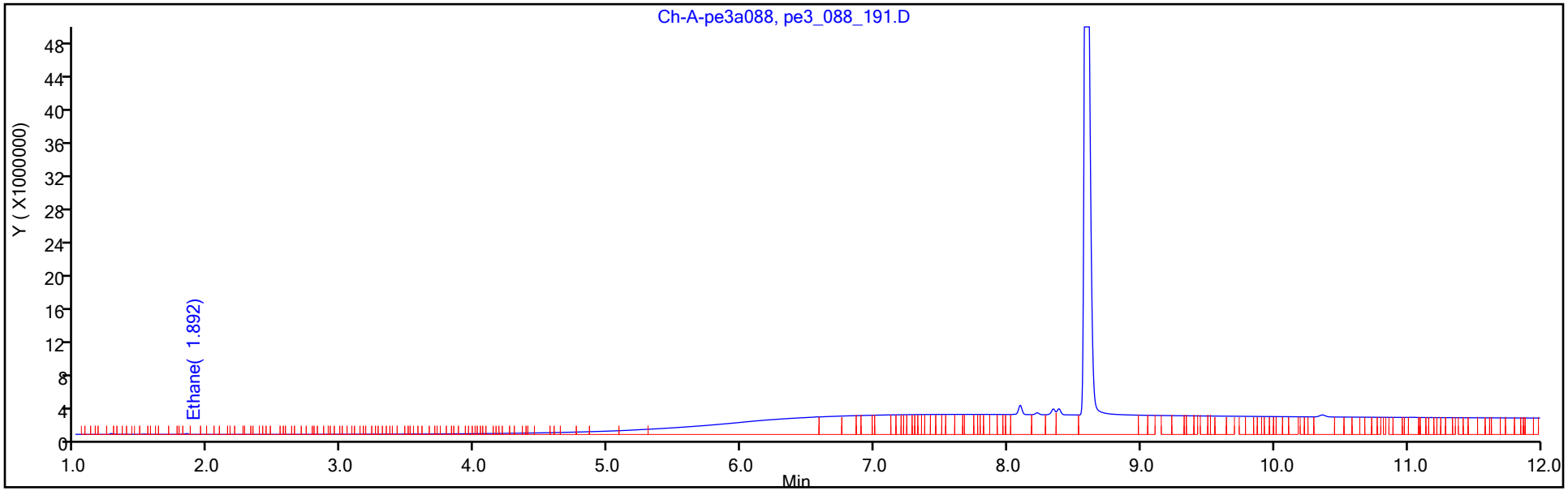
Report Date: 29-Sep-2023 12:45:25 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

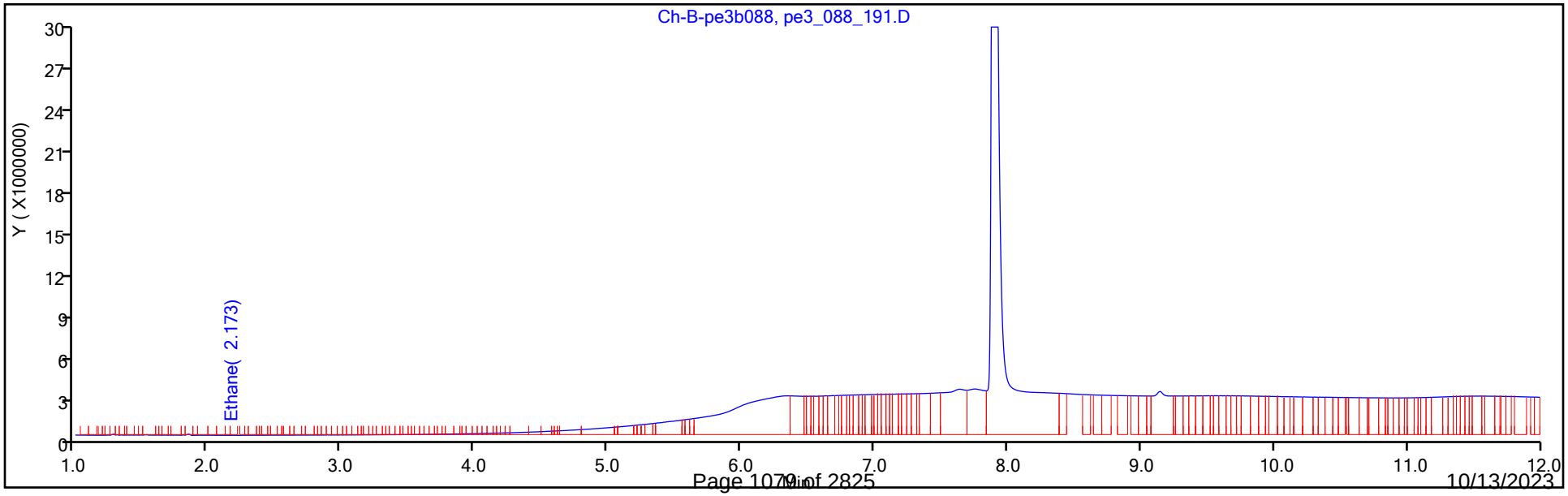
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_191.D

Injection Date:	29-Sep-2023 10:18:27	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-6	Lab Sample ID:	480-213168-6	Worklist Smp#:	11
Client ID:	GW-M-25D-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-25S-09272023 | Lab Sample ID: 480-213168-7

Matrix: Water | Lab File ID: pe3_088_192.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 15:20

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 10:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_192.D				
Lims ID:	480-213168-F-7				
Client ID:	GW-M-25S-09272023				
Sample Type:	Client				
Inject. Date:	29-Sep-2023 10:37:18	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	29-Sep-2023 12:45:14	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1692				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.912	1.903	0.009	27708	-3.41	
2	2.168	2.172	-0.004	60620	0.1337	

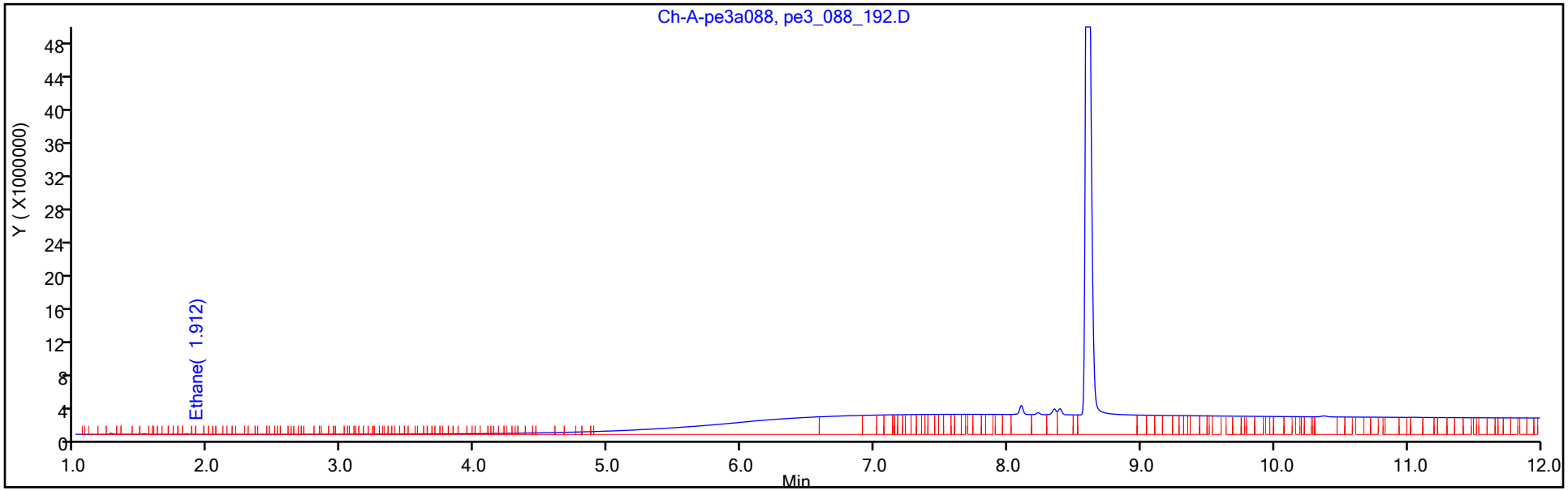
Report Date: 29-Sep-2023 12:45:26 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

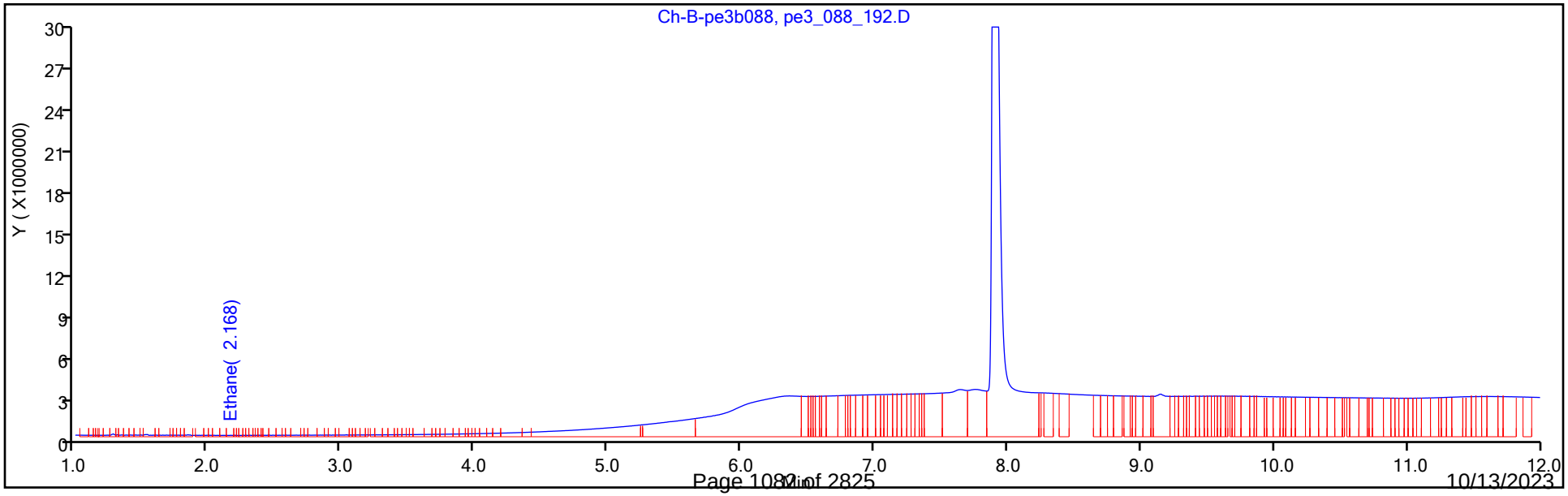
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_192.D

Injection Date:	29-Sep-2023 10:37:18	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-7	Lab Sample ID:	480-213168-7	Worklist Smp#:	12
Client ID:	GW-M-25S-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-1-09272023 | Lab Sample ID: 480-213168-8

Matrix: Water | Lab File ID: pe3_088_193.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 09:55

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 10:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_193.D				
Lims ID:	480-213168-F-8				
Client ID:	GW-M-1-09272023				
Sample Type:	Client				
Inject. Date:	29-Sep-2023 10:56:10	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	29-Sep-2023 12:45:14	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1692				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.896	1.903	-0.007	43422	-3.38	
2	2.173	2.172	0.001	67988	0.1499	

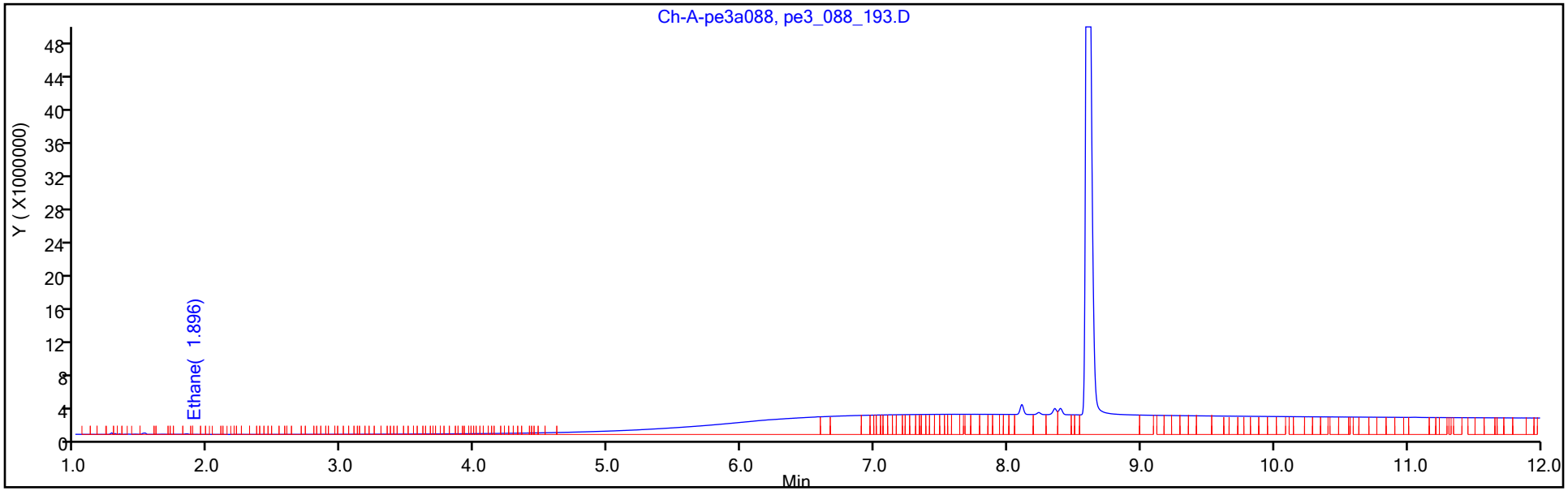
Report Date: 29-Sep-2023 12:45:27 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

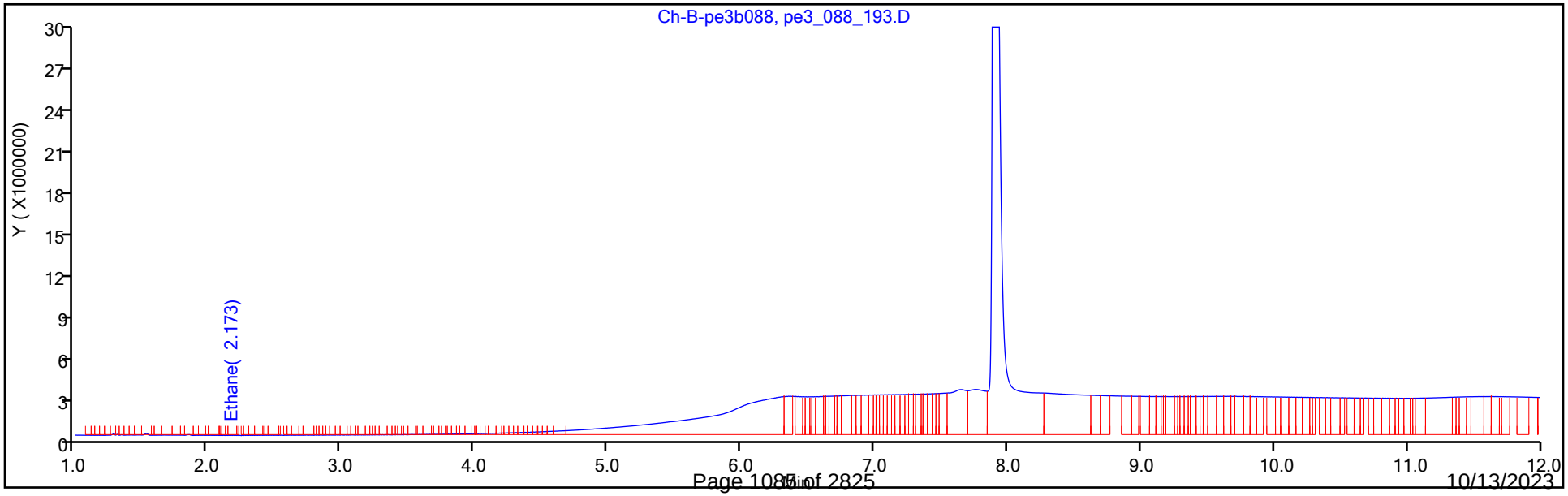
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_193.D

Injection Date:	29-Sep-2023 10:56:10	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-8	Lab Sample ID:	480-213168-8	Worklist Smp#:	13
Client ID:	GW-M-1-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-28D-0929023 | Lab Sample ID: 480-213168-9

Matrix: Water | Lab File ID: pe3_088_194.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 13:55

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 11:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_194.D
Lims ID: 480-213168-F-9
Client ID: GW-M-28D-0929023
Sample Type: Client
Inject. Date: 29-Sep-2023 11:15:02 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 12:45:14 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.891	1.903	-0.012	55081	-3.35	
2	2.208	2.172	0.036	9264	0.0204	

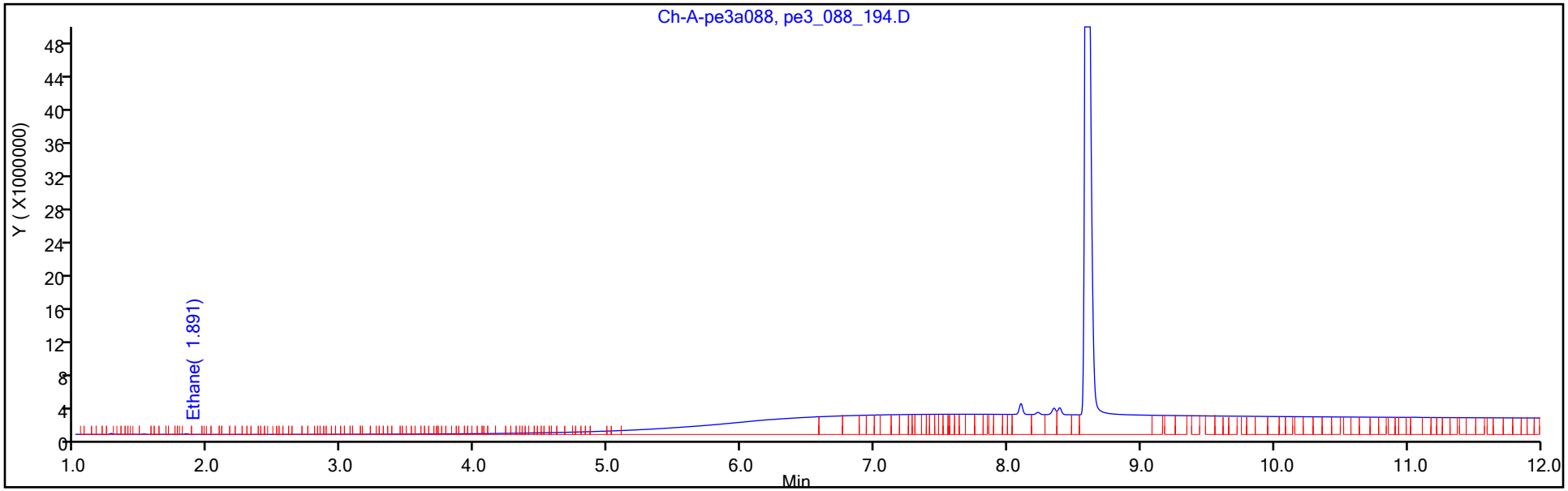
Report Date: 29-Sep-2023 12:45:28 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

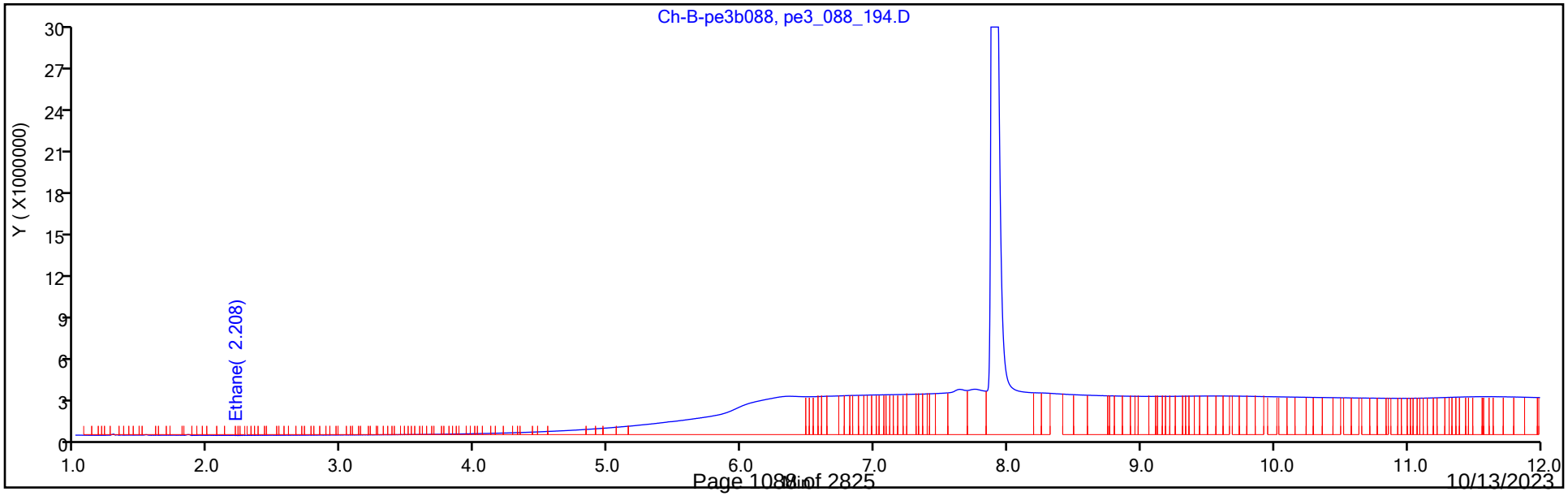
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_194.D

Injection Date:	29-Sep-2023 11:15:02	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-9	Lab Sample ID:	480-213168-9	Worklist Smp#:	14
Client ID:	GW-M-28D-0929023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-3-09272023 | Lab Sample ID: 480-213168-10

Matrix: Water | Lab File ID: pe3_088_195.D

Analysis Method: RSK-175 | Date Collected: 09/27/2023 00:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 11:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_195.D				
Lims ID:	480-213168-F-10				
Client ID:	EB-3-09272023				
Sample Type:	Client				
Inject. Date:	29-Sep-2023 11:33:53	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	29-Sep-2023 12:45:14	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1692				

First Level Reviewer: RH3X Date: 29-Sep-2023 11:54:27

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.912	1.903	0.009	51962	-3.36	
2	2.143	2.172	-0.029	42358	0.0934	

QC Flag Legend

Processing Flags

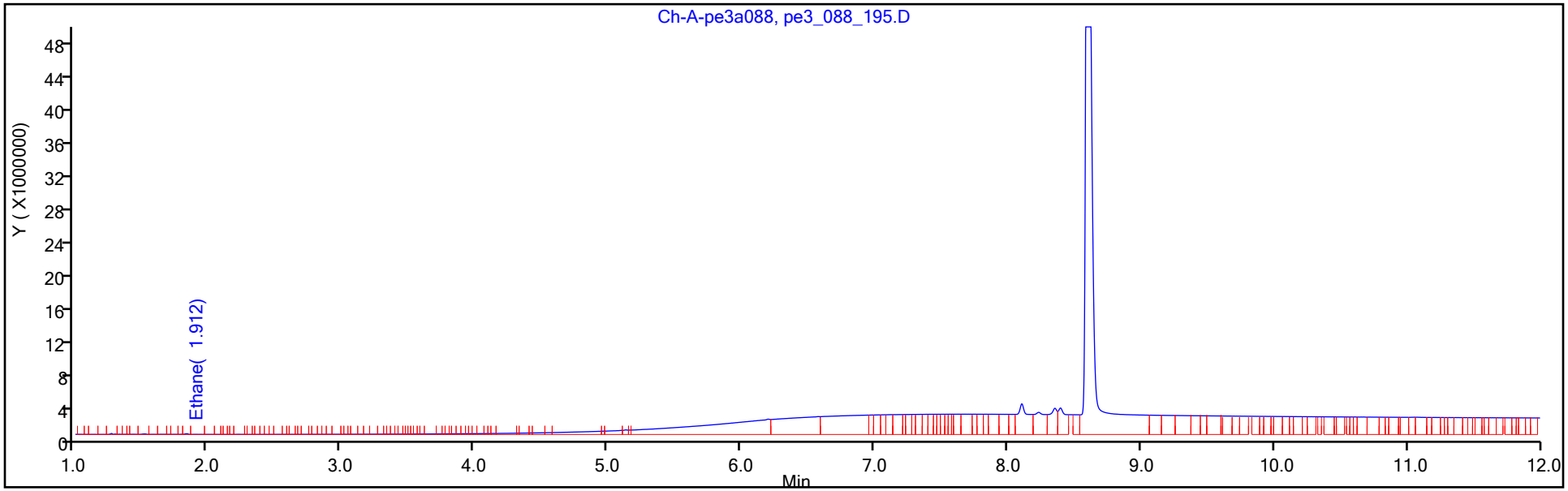
Report Date: 29-Sep-2023 12:45:29 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

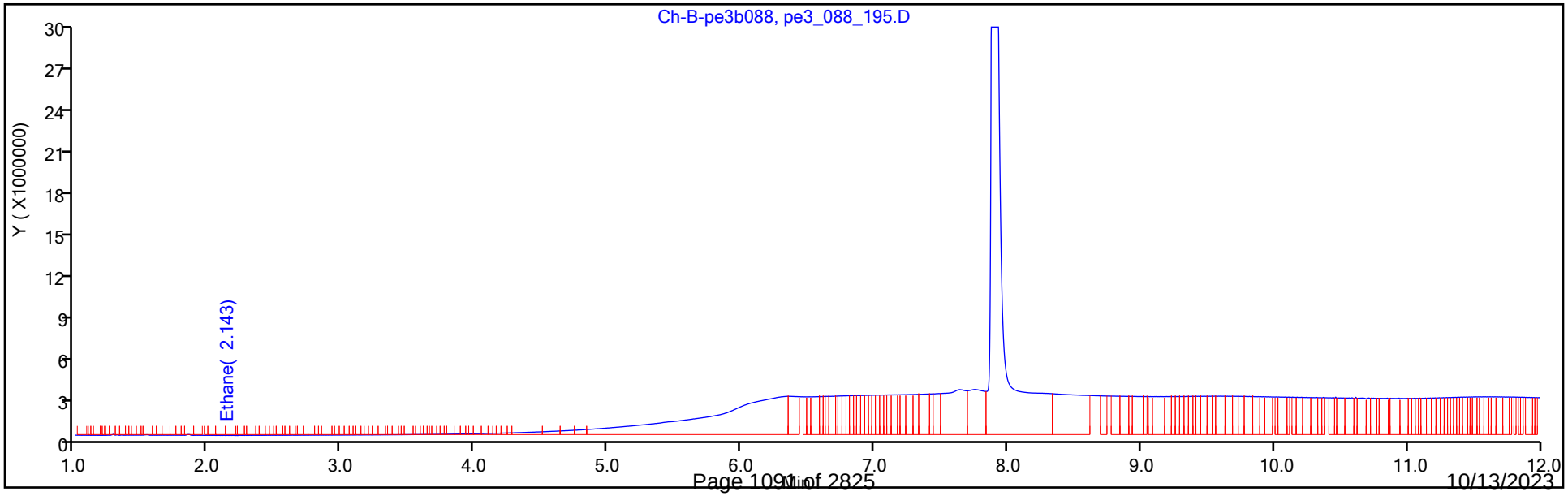
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_195.D

Injection Date:	29-Sep-2023 11:33:53	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213168-F-10	Lab Sample ID:	480-213168-10	Worklist Smp#:	15
Client ID:	EB-3-09272023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-4S-09282023 | Lab Sample ID: 480-213196-1

Matrix: Water | Lab File ID: pe3_088_229.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 08:50

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 08:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_229.D				
Lims ID:	480-213196-F-1				
Client ID:	GW-4S-09282023				
Sample Type:	Client				
Inject. Date:	04-Oct-2023 08:38:30	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	05-Oct-2023 06:29:40	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1662				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.891	1.896	-0.005	795256	-1.71	
2	2.157	2.171	-0.014	88845	0.1959	

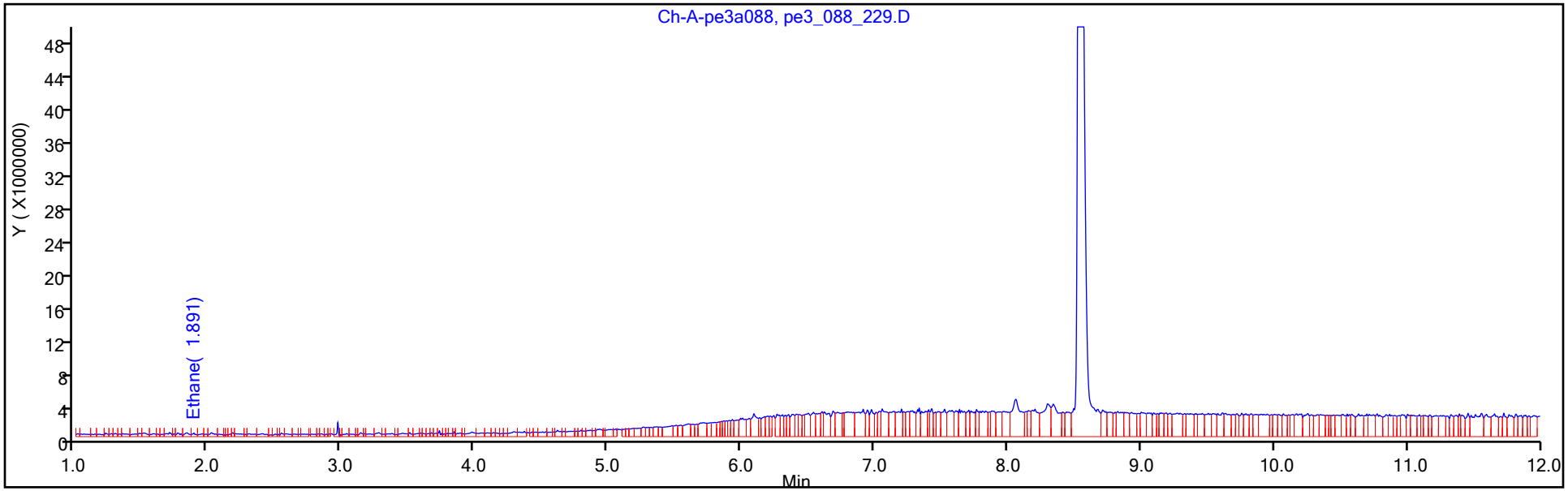
Report Date: 05-Oct-2023 06:29:44 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

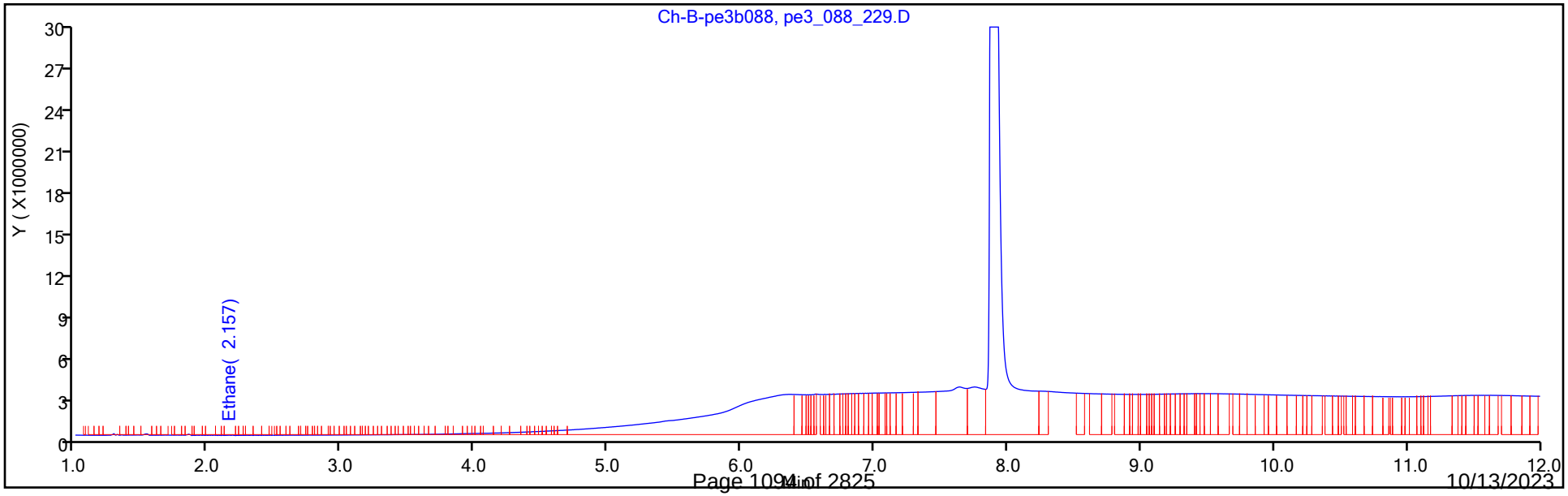
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_229.D

Injection Date:	04-Oct-2023 08:38:30	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-1	Lab Sample ID:	480-213196-1	Worklist Smp#:	6
Client ID:	GW-4S-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-4D-09282023 | Lab Sample ID: 480-213196-2

Matrix: Water | Lab File ID: pe3_088_230.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 08:55

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 08:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_230.D
Lims ID: 480-213196-F-2
Client ID: GW-4D-09282023
Sample Type: Client
Inject. Date: 04-Oct-2023 08:57:21 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.884	1.896	-0.012	250528	-2.92	
2	2.163	2.171	-0.008	77098	0.1700	

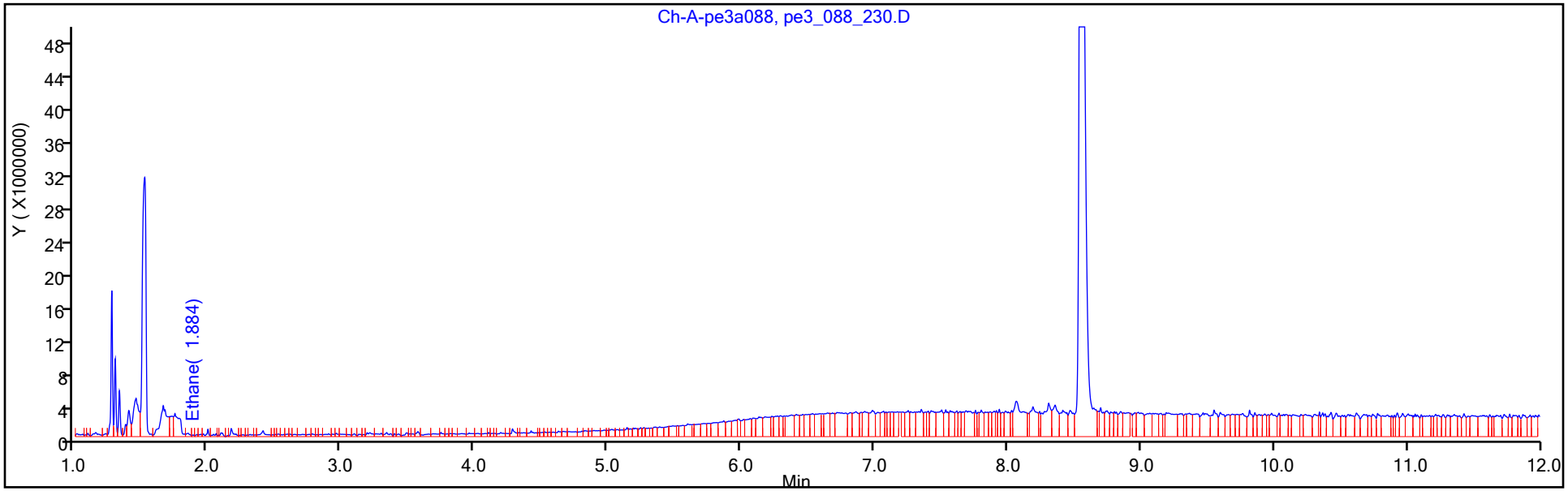
Report Date: 05-Oct-2023 06:29:45 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

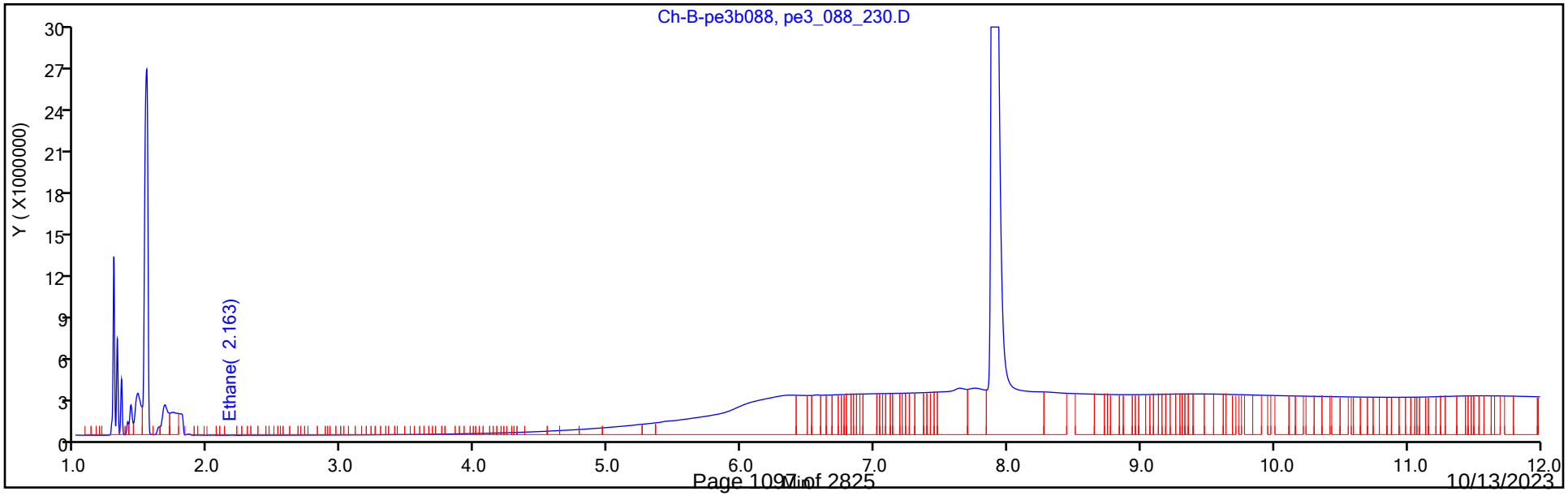
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_230.D

Injection Date:	04-Oct-2023 08:57:21	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-2	Lab Sample ID:	480-213196-2	Worklist Smp#:	7
Client ID:	GW-4D-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-M-24DR-09282023 | Lab Sample ID: 480-213196-3

Matrix: Water | Lab File ID: pe3_088_231.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 11:00

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 09:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_231.D
Lims ID: 480-213196-F-3
Client ID: GW-M-24DR-09282023
Sample Type: Client
Inject. Date: 04-Oct-2023 09:16:13 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.913	1.896	0.017	208737	-3.01	
2	2.171	2.171	0.000	94061	0.2074	

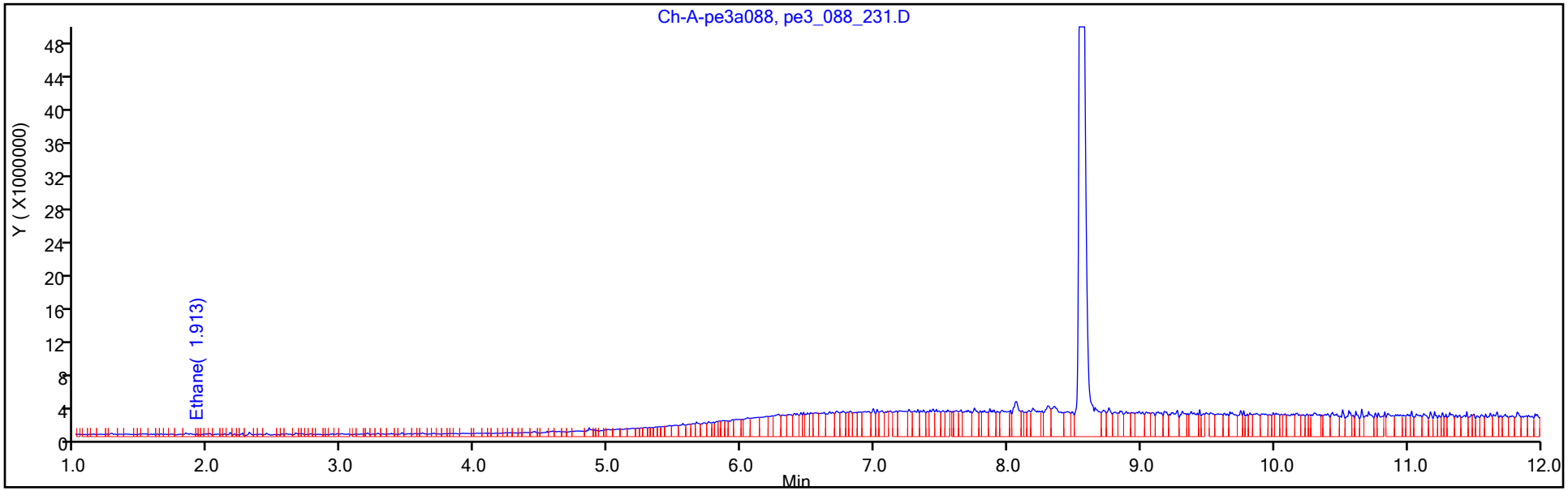
Report Date: 05-Oct-2023 06:29:46 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

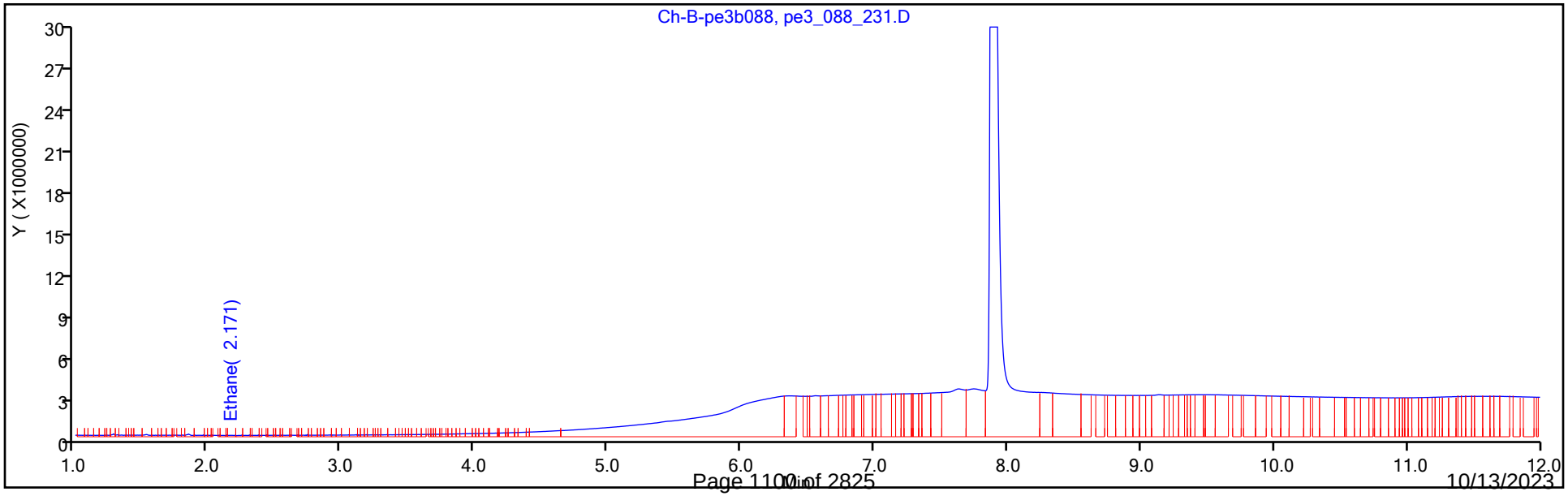
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_231.D

Injection Date:	04-Oct-2023 09:16:13	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-3	Lab Sample ID:	480-213196-3	Worklist Smp#:	8
Client ID:	GW-M-24DR-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-DGC-4S-09282023 | Lab Sample ID: 480-213196-4

Matrix: Water | Lab File ID: pe3_088_232.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 10:45

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 09:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_232.D
Lims ID: 480-213196-F-4
Client ID: GW-DGC-4S-09282023
Sample Type: Client
Inject. Date: 04-Oct-2023 09:35:05 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.896	1.896	0.000	316253	-2.77	
2	2.152	2.171	-0.019	61136	0.1348	

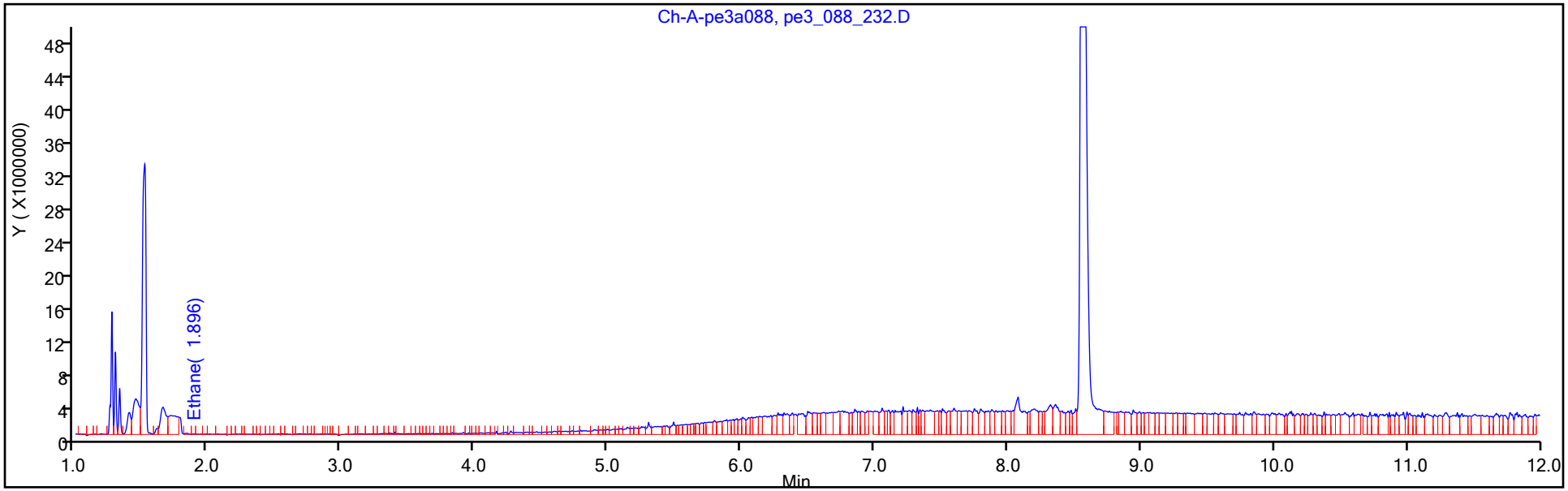
Report Date: 05-Oct-2023 06:29:47 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

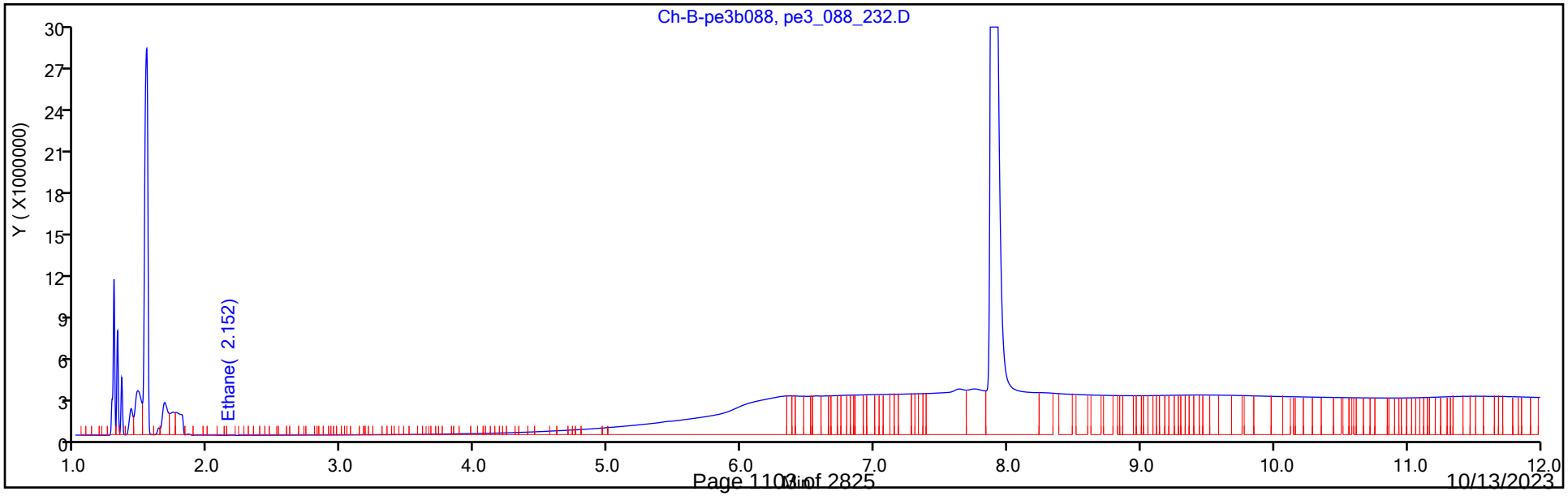
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_232.D

Injection Date:	04-Oct-2023 09:35:05	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-4	Lab Sample ID:	480-213196-4	Worklist Smp#:	9
Client ID:	GW-DGC-4S-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-F-09282023 | Lab Sample ID: 480-213196-5

Matrix: Water | Lab File ID: pe3_088_233.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 12:50

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 09:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_233.D
Lims ID: 480-213196-F-5
Client ID: SW-F-09282023
Sample Type: Client
Inject. Date: 04-Oct-2023 09:53:56 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.899	1.896	0.003	539224	-2.28	
2	2.176	2.171	0.005	43386	0.0957	

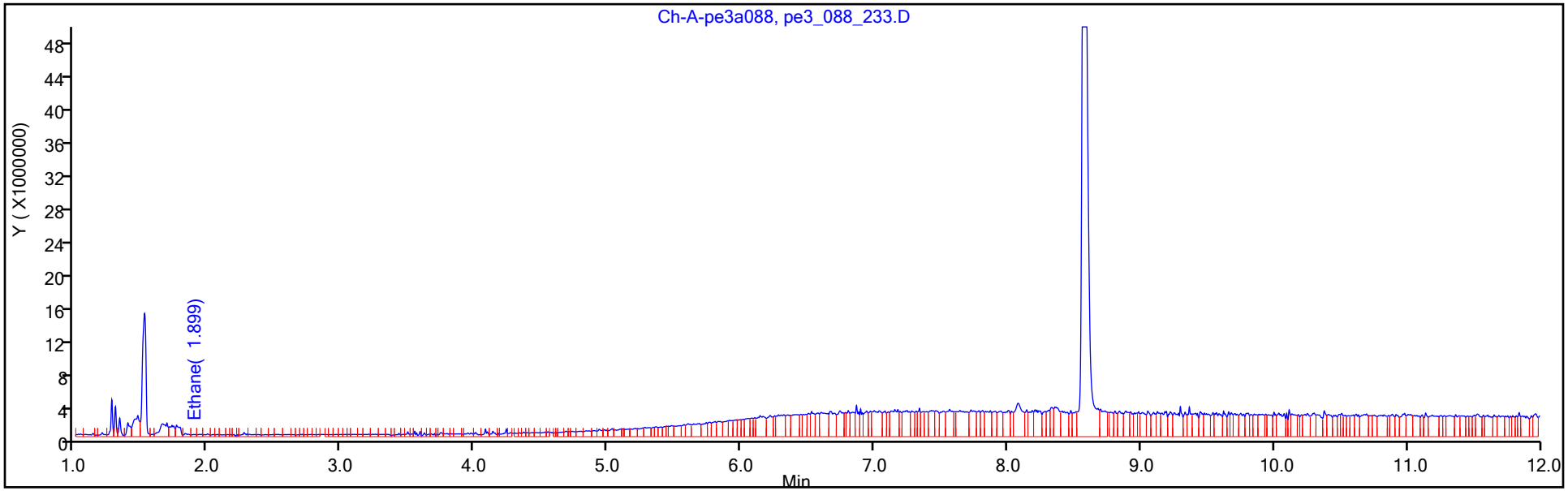
Report Date: 05-Oct-2023 06:29:48 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

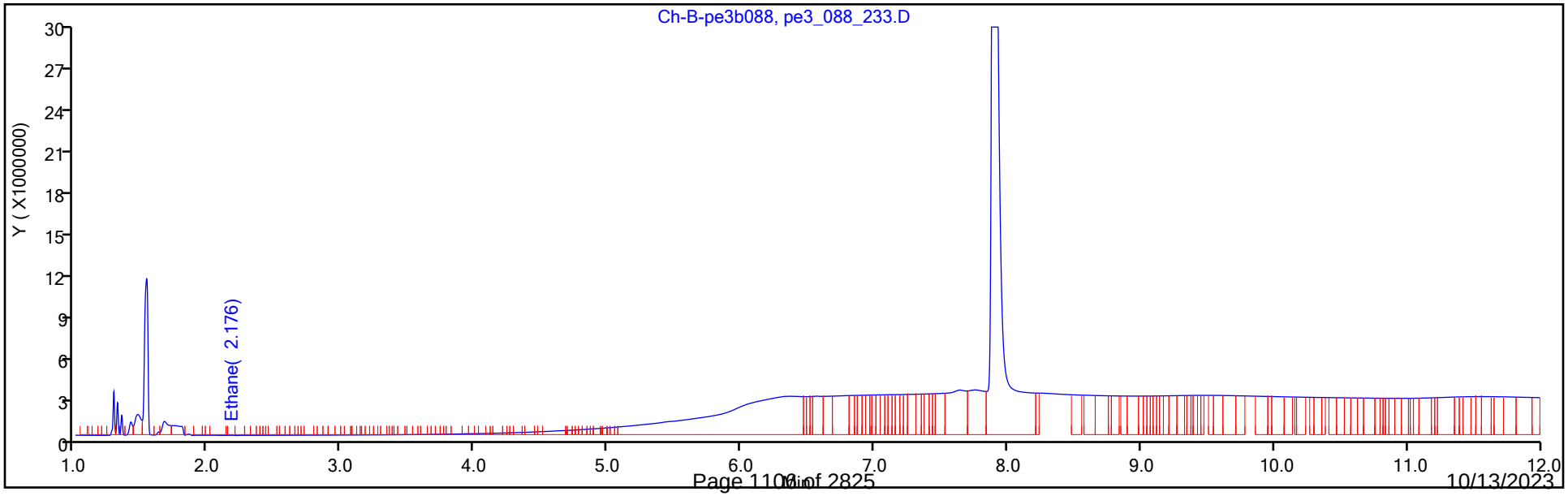
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_233.D

Injection Date:	04-Oct-2023 09:53:56	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-5	Lab Sample ID:	480-213196-5	Worklist Smp#:	10
Client ID:	SW-F-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-A-09282023 | Lab Sample ID: 480-213196-6

Matrix: Water | Lab File ID: pe3_088_234.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 11:35

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 10:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_234.D
Lims ID: 480-213196-F-6
Client ID: SW-A-09282023
Sample Type: Client
Inject. Date: 04-Oct-2023 10:12:48 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.911	1.896	0.015	381289	-2.63	
2	2.164	2.171	-0.007	30944	0.0682	

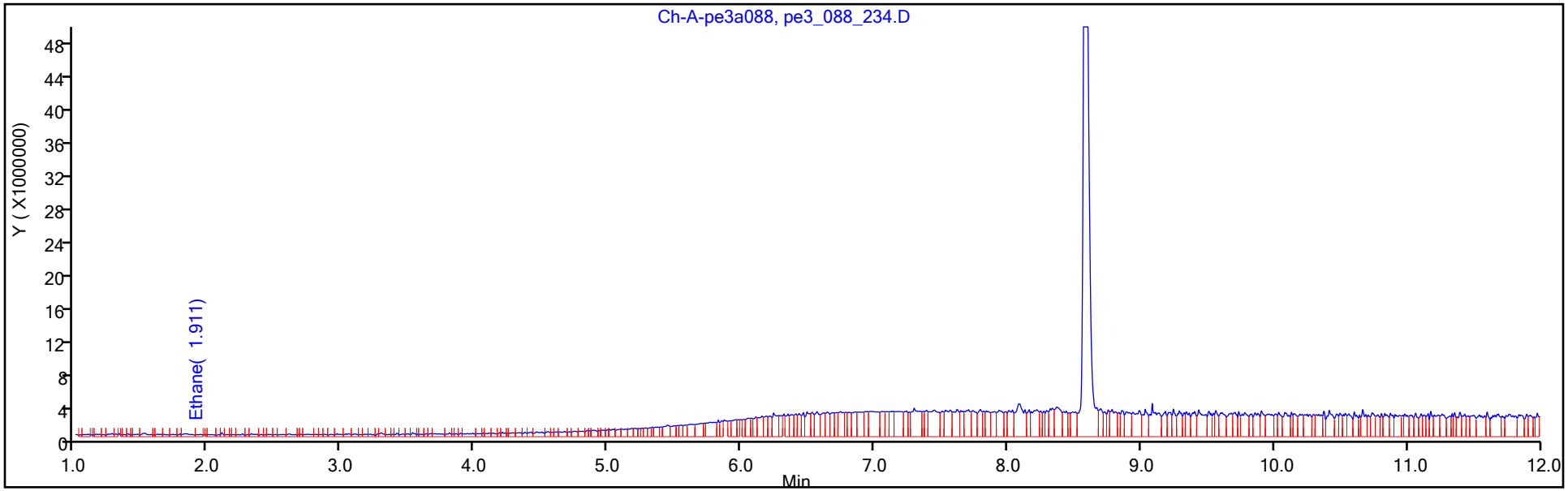
Report Date: 05-Oct-2023 06:29:49 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

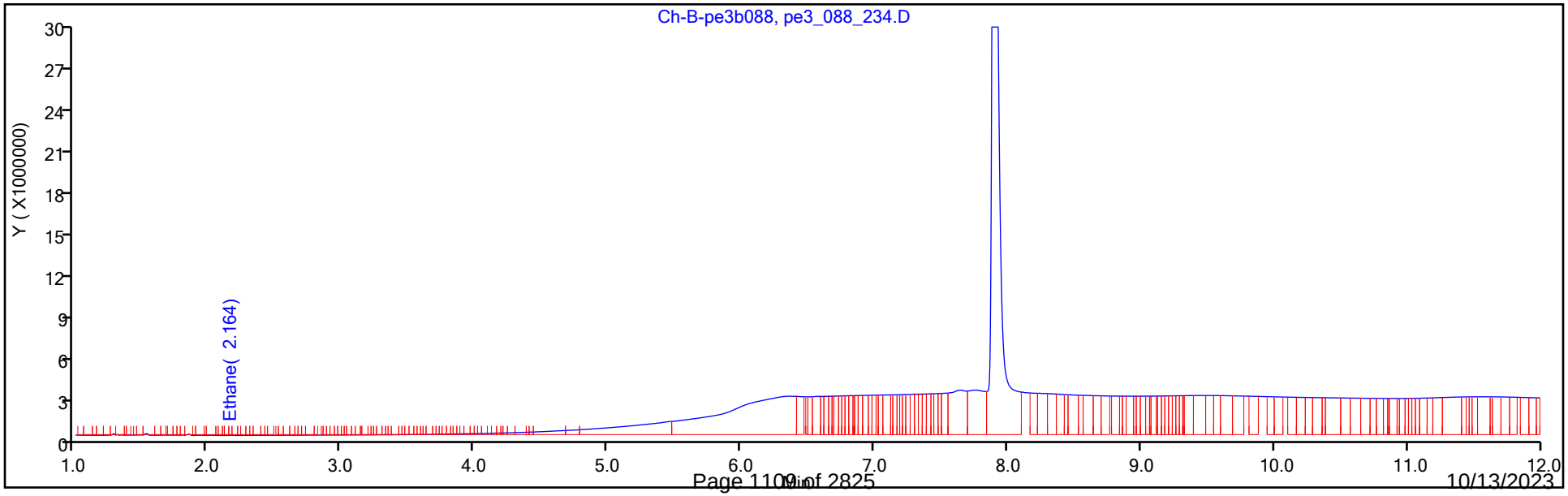
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_234.D

Injection Date:	04-Oct-2023 10:12:48	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-6	Lab Sample ID:	480-213196-6	Worklist Smp#:	11
Client ID:	SW-A-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-E-09282023 | Lab Sample ID: 480-213196-7

Matrix: Water | Lab File ID: pe3_088_235.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 12:30

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 10:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_235.D				
Lims ID:	480-213196-F-7				
Client ID:	SW-E-09282023				
Sample Type:	Client				
Inject. Date:	04-Oct-2023 10:31:40	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	05-Oct-2023 06:29:40	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1662				

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.907	1.896	0.011	322819	-2.76	
2	2.169	2.171	-0.002	34707	0.0765	

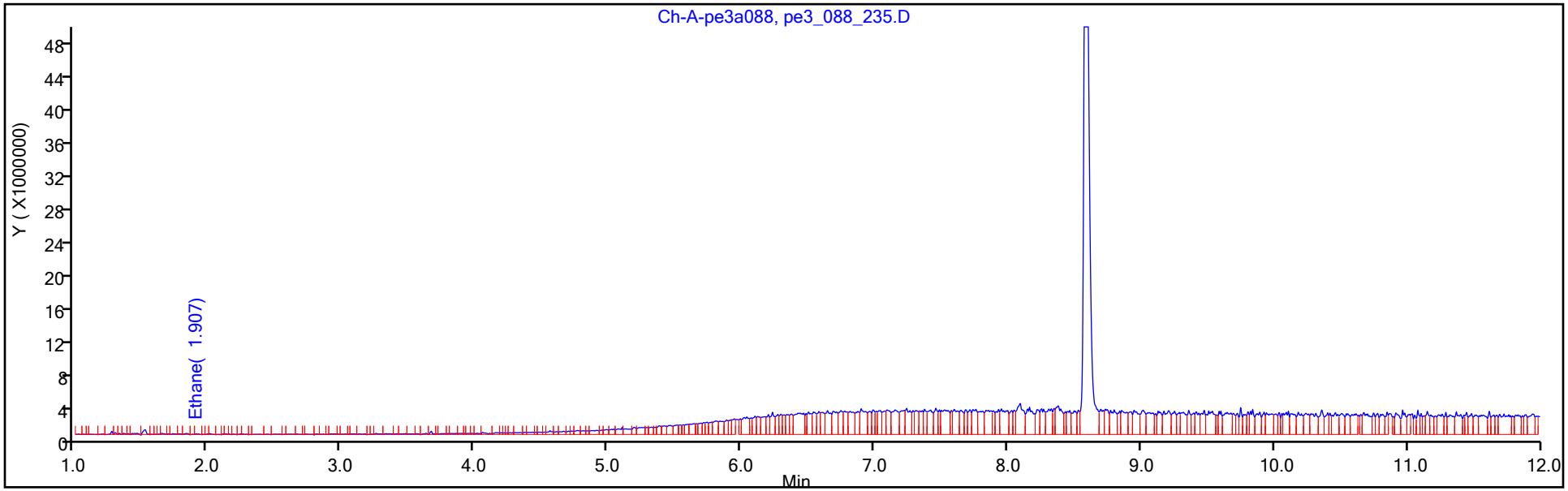
Report Date: 05-Oct-2023 06:29:50 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

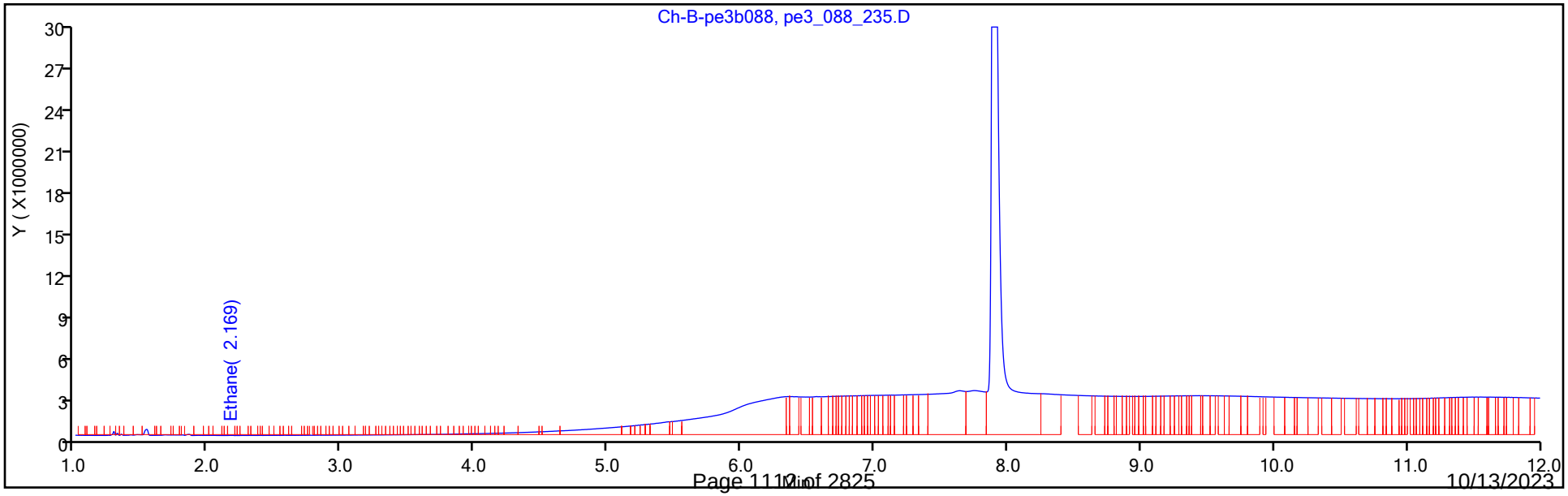
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_235.D

Injection Date:	04-Oct-2023 10:31:40	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-7	Lab Sample ID:	480-213196-7	Worklist Smp#:	12
Client ID:	SW-E-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-G-09282023 | Lab Sample ID: 480-213196-8

Matrix: Water | Lab File ID: pe3_088_236.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 12:00

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 10:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_236.D
Lims ID: 480-213196-F-8
Client ID: SW-G-09282023
Sample Type: Client
Inject. Date: 04-Oct-2023 10:50:31 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.889	1.896	-0.007	878996	-1.52	
2	2.172	2.171	0.001	39270	0.0866	

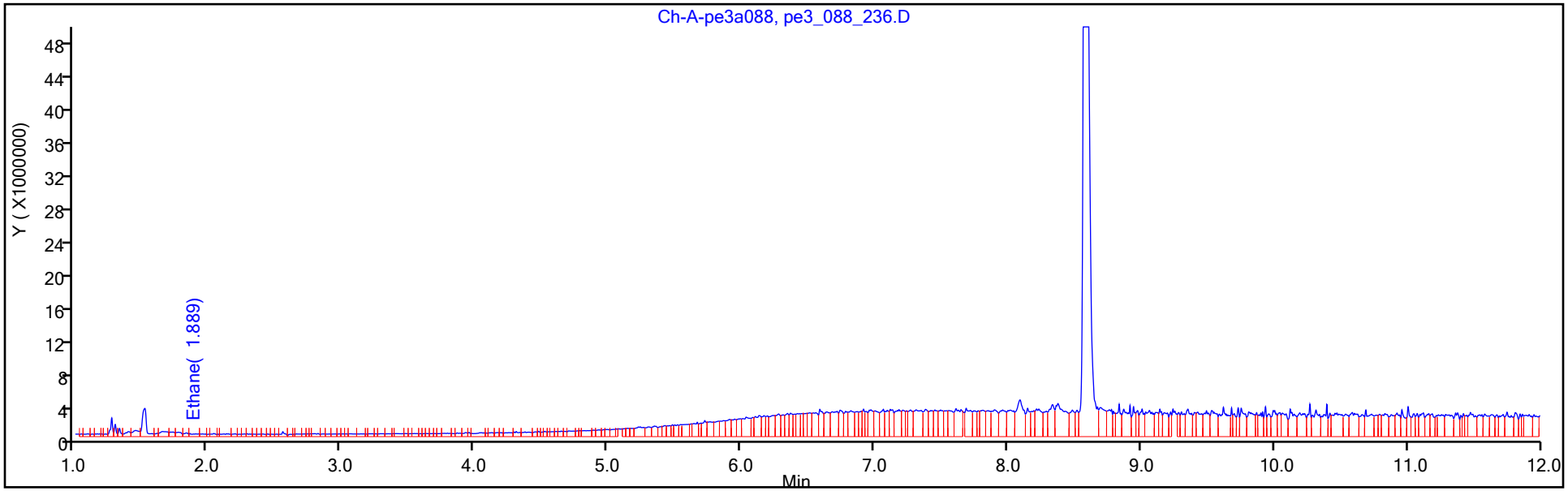
Report Date: 05-Oct-2023 06:29:51 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

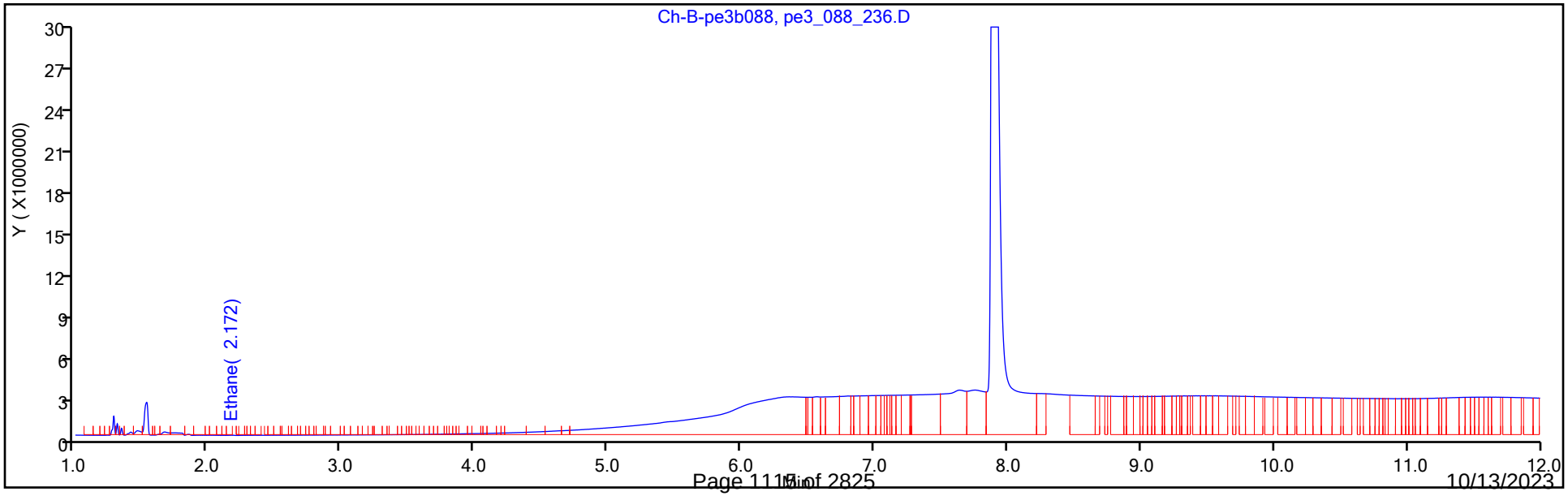
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_236.D

Injection Date:	04-Oct-2023 10:50:31	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-8	Lab Sample ID:	480-213196-8	Worklist Smp#:	13
Client ID:	SW-G-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: EB-4-09282023 | Lab Sample ID: 480-213196-9

Matrix: Water | Lab File ID: pe3_088_237.D

Analysis Method: RSK-175 | Date Collected: 09/28/2023 00:00

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 11:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_237.D				
Lims ID:	480-213196-F-9				
Client ID:	EB-4-09282023				
Sample Type:	Client				
Inject. Date:	04-Oct-2023 11:09:23	ALS Bottle#:	0	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Operator ID:	tchrom	Instrument ID:	PE-03		
Method:	\\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m				
Limit Group:	GC - RSK175 ICAL				
Last Update:	05-Oct-2023 06:29:40	Calib Date:	07-Mar-2023 14:58:19		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D				
Column 1 :	Alumina (0.00 mm)		Det: Ch-A-21a09074		
Column 2 :	RTX-U Plot (0.32 mm)		Det: Ch-B-21b09074		
Process Host:	CTX1662				
First Level Reviewer: RH3X		Date:	04-Oct-2023 11:45:40		

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
2 Ethane						
1	1.872	1.896	-0.024	401126	-2.58	
2	2.183	2.171	0.012	62836	0.1386	

QC Flag Legend

Processing Flags

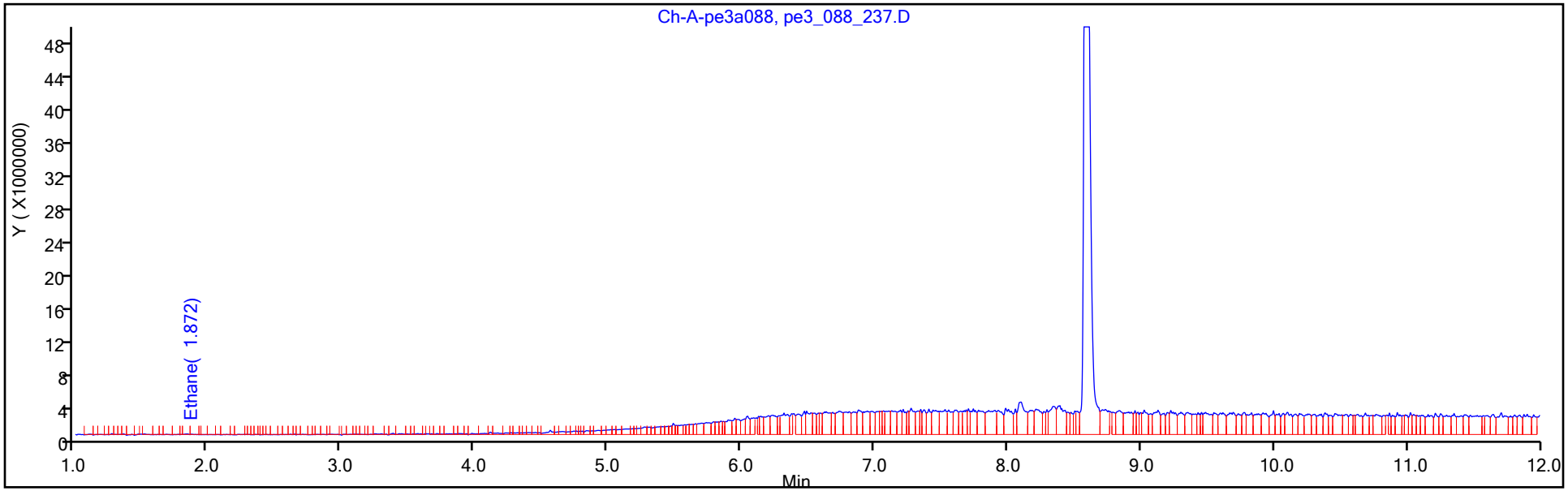
Report Date: 05-Oct-2023 06:29:53 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

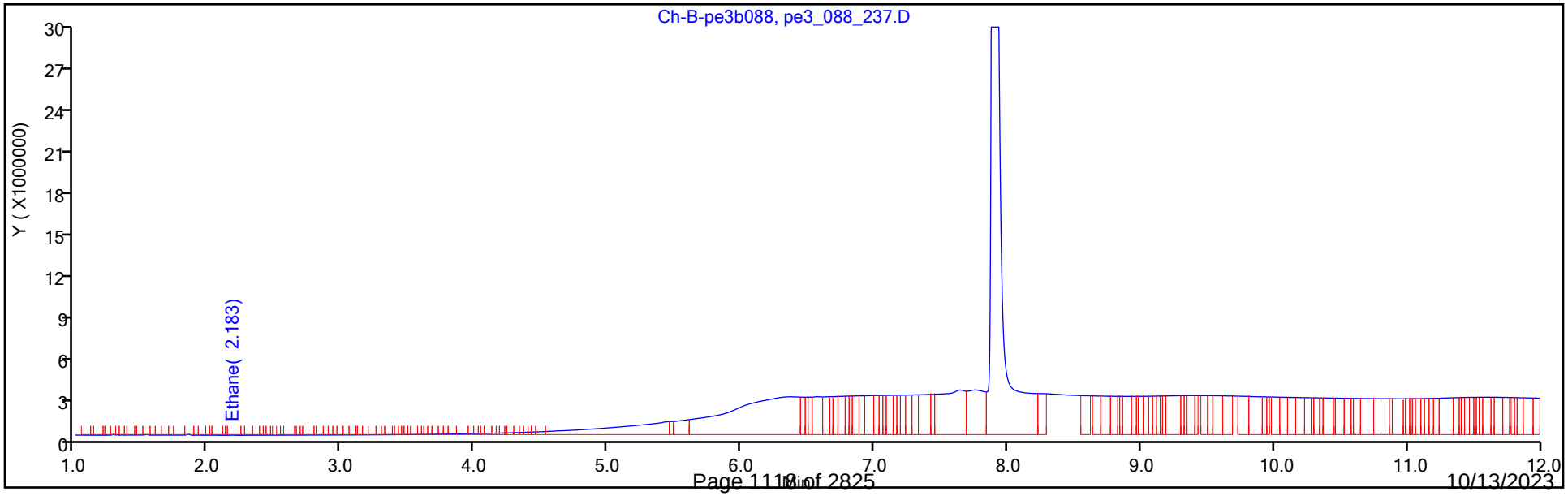
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_237.D

Injection Date:	04-Oct-2023 11:09:23	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213196-F-9	Lab Sample ID:	480-213196-9	Worklist Smp#:	14
Client ID:	EB-4-09282023				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 660706

SDG No.: 480-213061-1

Instrument ID: PE-03 GC Column: Alumina ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/07/2023 12:27 Calibration End Date: 03/07/2023 14:58 Calibration ID: 44570

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-660706/4	pe3_081_330.D
Level 2	IC 480-660706/5	pe3_081_331.D
Level 3	IC 480-660706/6	pe3_081_332.D
Level 4	IC 480-660706/7	pe3_081_333.D
Level 5	IC 480-660706/8	pe3_081_334.D
Level 6	IC 480-660706/9	pe3_081_335.D
Level 7	IC 480-660706/10	pe3_081_336.D
Level 8	IC 480-660706/11	pe3_081_337.D
Level 9	IC 480-660706/12	pe3_081_338.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.516	1.517	1.517	1.517	1.517	1.517	1.517	1.517	1.517		1.267 - 1.767	1.517
Ethane	1.880	1.880	1.879	1.879	1.879	1.877	1.876	1.884	+++++		1.629 - 2.129	1.879
Ethene	2.597	2.596	2.591	2.588	2.583	2.573	2.568	2.568	+++++		2.341 - 2.841	2.583

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-213061-1 Analy Batch No.: 660706

SDG No.: 480-213061-1

Instrument ID: PE-03 GC Column: Alumina ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/07/2023 12:27 Calibration End Date: 03/07/2023 14:58 Calibration ID: 44570

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-660706/4	pe3_081_330.D
Level 2	IC 480-660706/5	pe3_081_331.D
Level 3	IC 480-660706/6	pe3_081_332.D
Level 4	IC 480-660706/7	pe3_081_333.D
Level 5	IC 480-660706/8	pe3_081_334.D
Level 6	IC 480-660706/9	pe3_081_335.D
Level 7	IC 480-660706/10	pe3_081_336.D
Level 8	IC 480-660706/11	pe3_081_337.D
Level 9	IC 480-660706/12	pe3_081_338.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	677065 454620 455763	539336 486671	517962 462479	469850 485690	Lin1	722402.240	465725.651							0.9990		0.9900
Ethane	638820 462824 +++++	526901 495280	515779 469564	476381 417021	Lin1	1561159.29	449171.294							0.9950		0.9900
Ethene	541345 425128 +++++	449959 439140	445139 419744	426453 387335	Lin1	942392.524	408497.309							0.9970		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1 | Analy Batch No.: 660706

SDG No.: 480-213061-1

Instrument ID: PE-03 | GC Column: Alumina | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/07/2023 12:27 | Calibration End Date: 03/07/2023 14:58 | Calibration ID: 44570

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-660706/4	pe3_081_330.D
Level 2	IC 480-660706/5	pe3_081_331.D
Level 3	IC 480-660706/6	pe3_081_332.D
Level 4	IC 480-660706/7	pe3_081_333.D
Level 5	IC 480-660706/8	pe3_081_334.D
Level 6	IC 480-660706/9	pe3_081_335.D
Level 7	IC 480-660706/10	pe3_081_336.D
Level 8	IC 480-660706/11	pe3_081_337.D
Level 9	IC 480-660706/12	pe3_081_338.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methane	Lin1	2615901 75211913	4167543 107209811	10005957 150120486	18153063 176088028	35129261	3.86 155	7.73 232	19.3 309	38.6 386	77.3
Ethane	Lin1	4640836 143922467	7655561 204674737	18734918 242362738	34607654 +++++	67245584	7.26 291	14.5 436	36.3 581	72.6 +++++	145
Ethene	Lin1	3648347 118381920	6064923 169729524	14999880 208832706	28740443 +++++	57302279	6.74 270	13.5 404	33.7 539	67.4 +++++	135

Curve Type Legend:
Lin1 = Linear 1/conc

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_330.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Mar-2023 12:27:22 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:19 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: YMS1 Date: 07-Mar-2023 14:46:40

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							M
1	1.516	1.517	-0.001	2615901	3.86	4.07	
2	1.536	1.536	0.000	1714405	3.86	4.81	M
2 Ethane							
1	1.880	1.879	0.001	4640836	7.26	6.86	
2	2.184	2.184	0.000	3575427	7.26	7.88	
3 Ethylene							
1	2.597	2.591	0.006	3648347	6.74	6.62	
2	2.055	2.055	0.000	2335955	6.74	7.36	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00027 Amount Added: 10.00 Units: uL

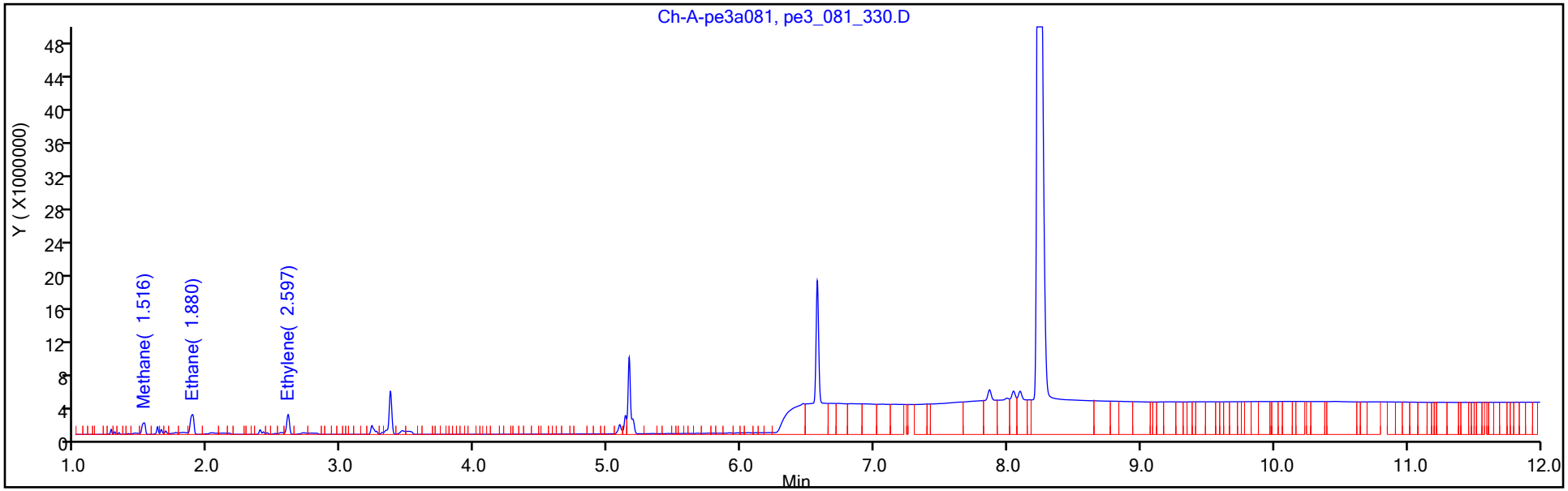
Report Date: 08-Mar-2023 11:01:19 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

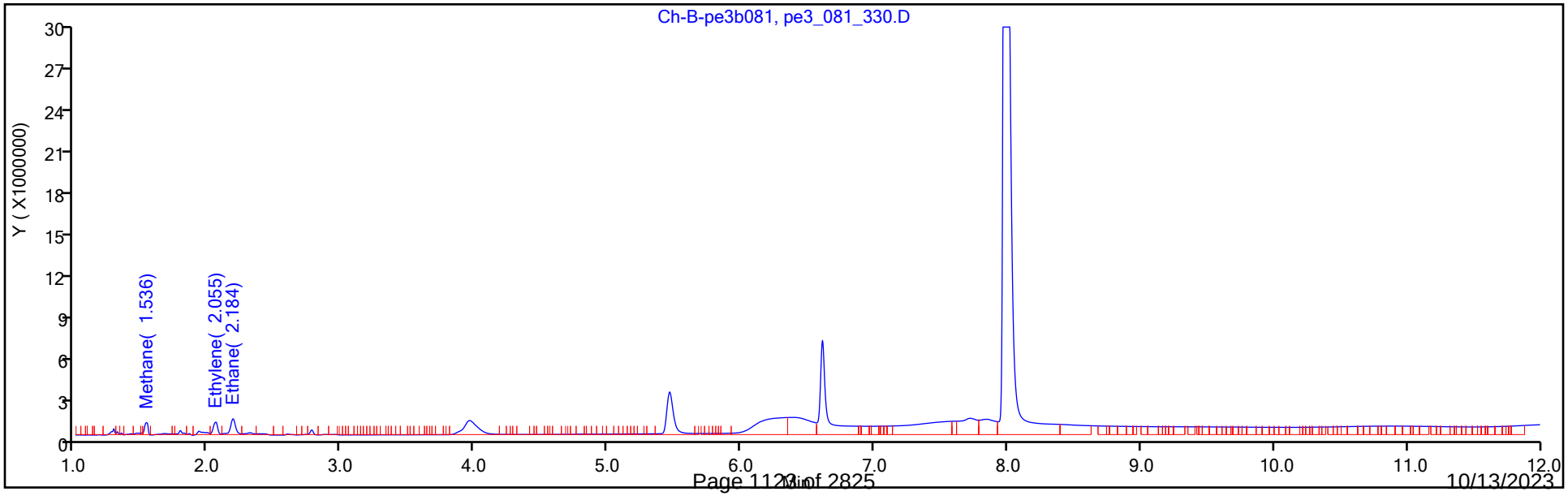
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_330.D

Injection Date:	07-Mar-2023 12:27:22	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_331.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Mar-2023 12:46:15 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:20 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: YMS1 Date: 07-Mar-2023 14:50:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							M
1	1.517	1.517	0.000	4167543	7.73	7.40	
2	1.536	1.536	0.000	2682152	7.73	7.53	M
2 Ethane							M
1	1.880	1.879	0.001	7655561	14.5	13.6	
2	2.185	2.184	0.001	5857747	14.5	12.9	M
3 Ethylene							
1	2.596	2.591	0.005	6064923	13.5	12.5	
2	2.055	2.055	0.000	3804759	13.5	12.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00027 Amount Added: 20.00 Units: uL

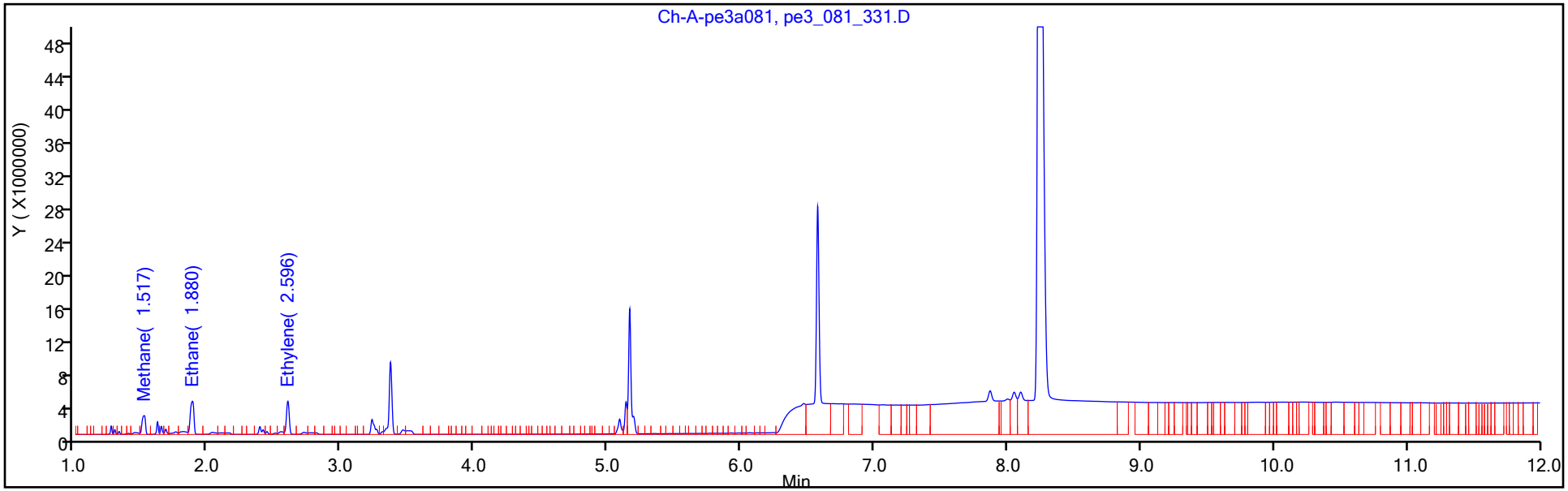
Report Date: 08-Mar-2023 11:01:20 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

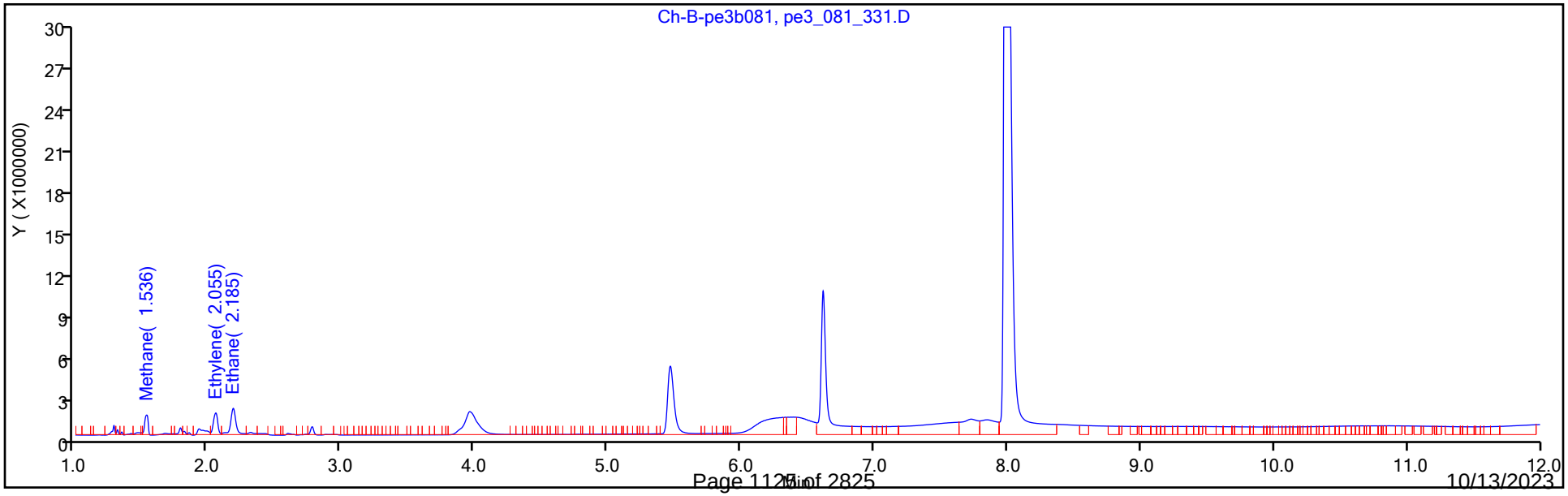
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_331.D

Injection Date:	07-Mar-2023 12:46:15	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_332.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Mar-2023 13:05:07 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:21 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: YMS1 Date: 07-Mar-2023 14:50:24

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.517	1.517	0.000	10005957	19.3	19.9	
2	1.536	1.536	0.000	6476916	19.3	18.2	
2 Ethane							M
1	1.879	1.879	0.000	18734918	36.3	38.2	
2	2.184	2.184	0.000	15065143	36.3	33.2	M
3 Ethylene							
1	2.591	2.591	0.000	14999880	33.7	34.4	
2	2.055	2.055	0.000	9922888	33.7	31.2	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00027 Amount Added: 50.00 Units: uL

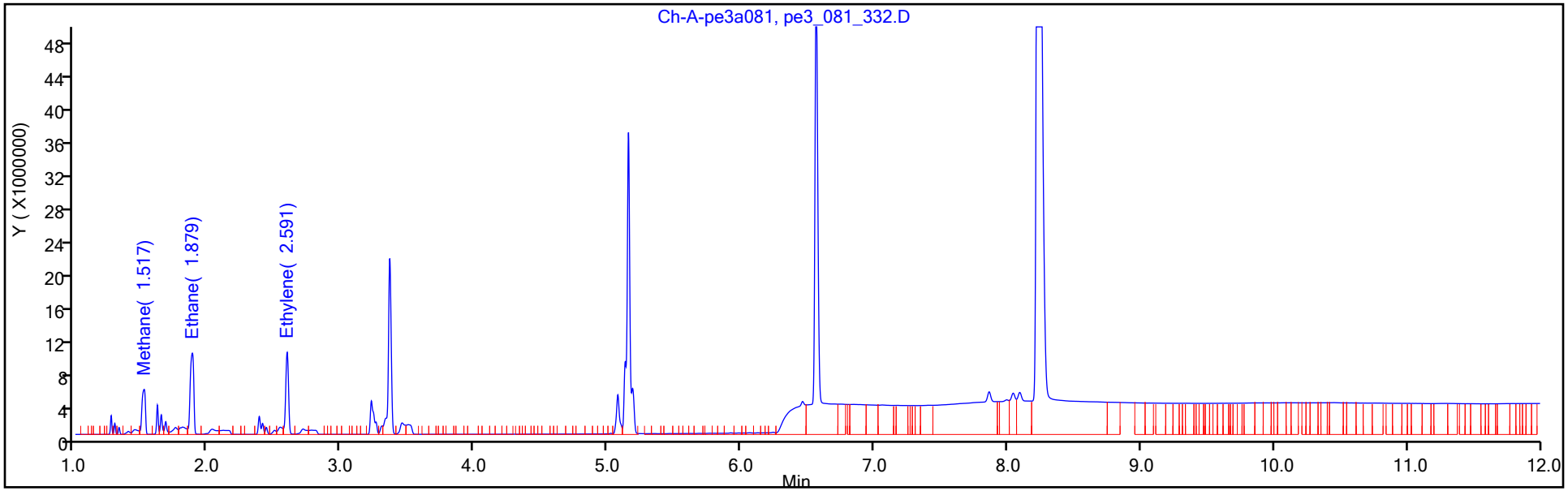
Report Date: 08-Mar-2023 11:01:21 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

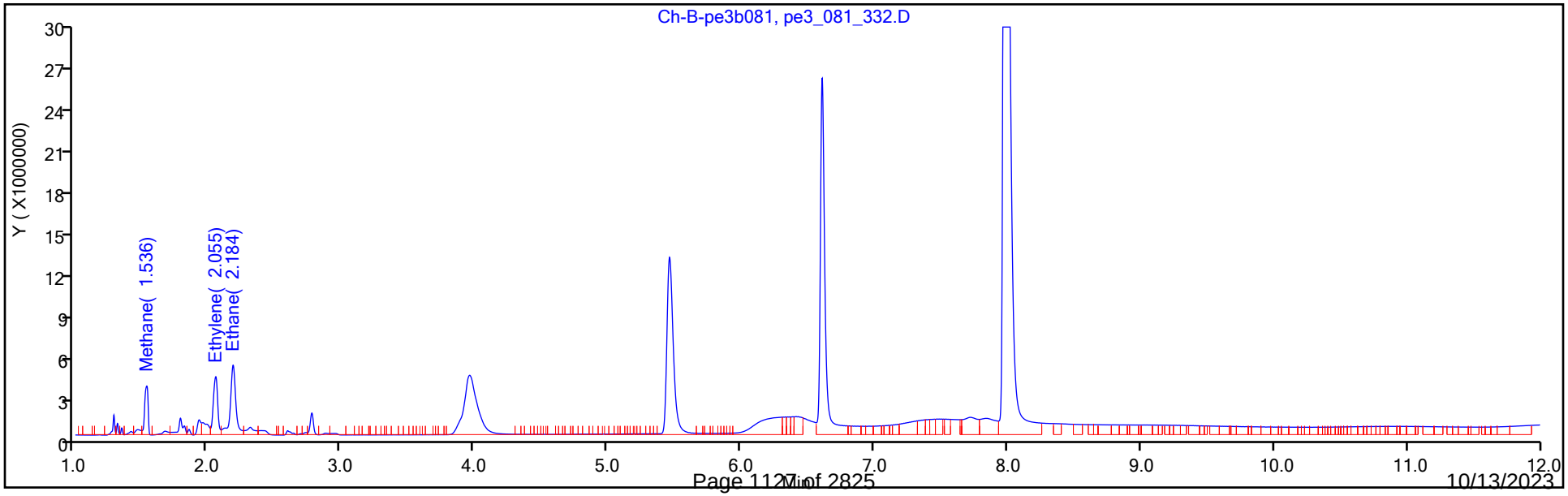
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_332.D

Injection Date:	07-Mar-2023 13:05:07	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_333.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Mar-2023 13:23:59 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:22 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: O0RH Date: 08-Mar-2023 10:57:51

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.517	1.517	0.000	18153063	38.6	37.4	
2	1.537	1.536	0.001	11835823	38.6	33.2	
2 Ethane							
1	1.879	1.879	0.000	34607654	72.6	73.6	
2	2.185	2.184	0.001	30186254	72.6	66.6	
3 Ethylene							
1	2.588	2.591	-0.003	28740443	67.4	68.0	
2	2.055	2.055	0.000	19439374	67.4	61.2	

QC Flag Legend
Processing Flags

Reagents:
_RSK_STK_00027 Amount Added: 100.00 Units: uL

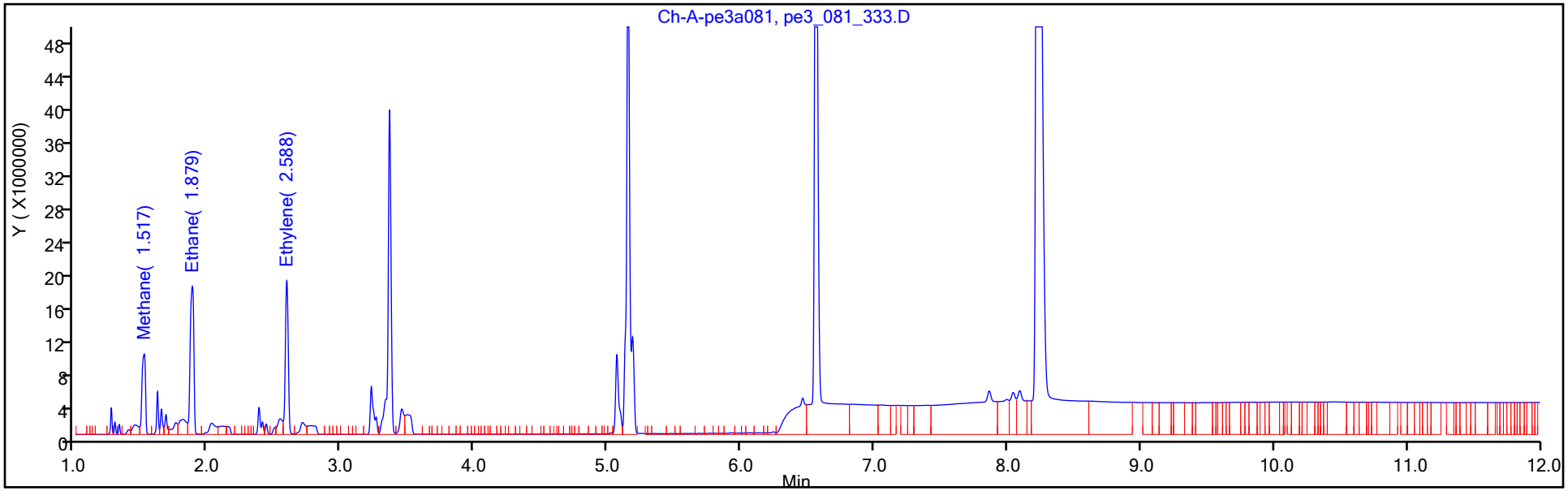
Report Date: 08-Mar-2023 11:01:23 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

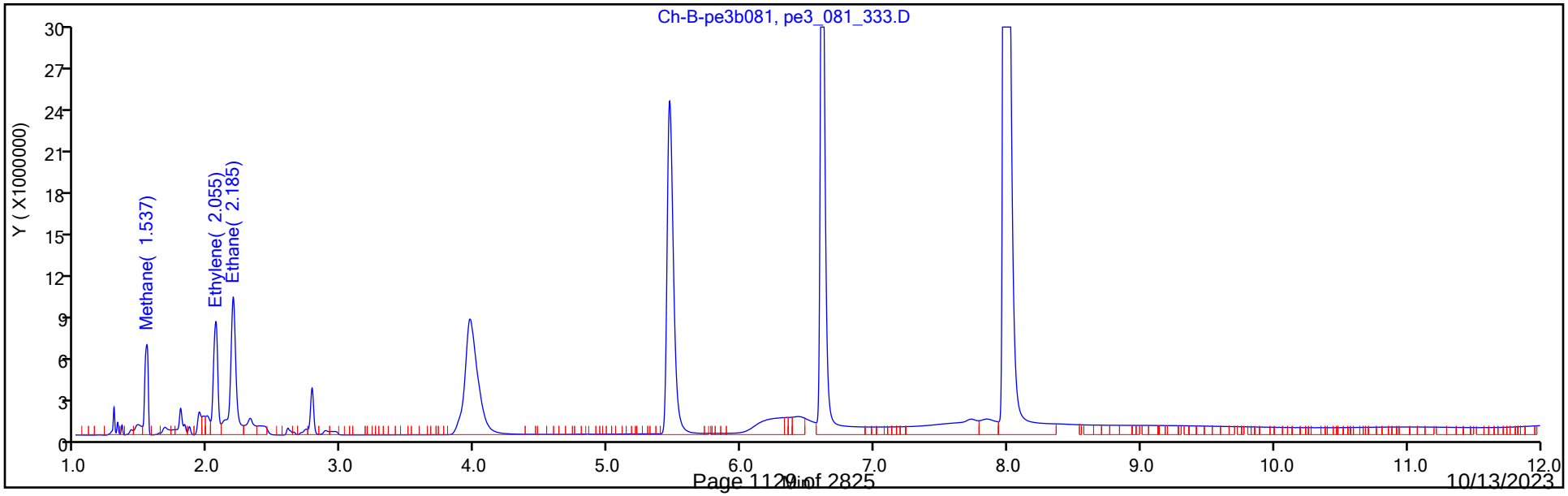
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_333.D

Injection Date:	07-Mar-2023 13:23:59	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_334.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Mar-2023 13:42:50 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:24 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: YMS1 Date: 07-Mar-2023 14:50:37

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.517	1.517	0.000	35129261	77.3	73.9	
2	1.537	1.536	0.001	23964190	77.3	67.3	
2 Ethane							
1	1.879	1.879	0.000	67245584	145.3	146.2	
2	2.185	2.184	0.001	63228435	145.3	139.4	
3 Ethylene							
1	2.583	2.591	-0.008	57302279	134.8	138.0	
2	2.055	2.055	0.000	42889423	134.8	135.1	

QC Flag Legend
Processing Flags

Reagents:
_RSK_STK_00027 Amount Added: 200.00 Units: uL

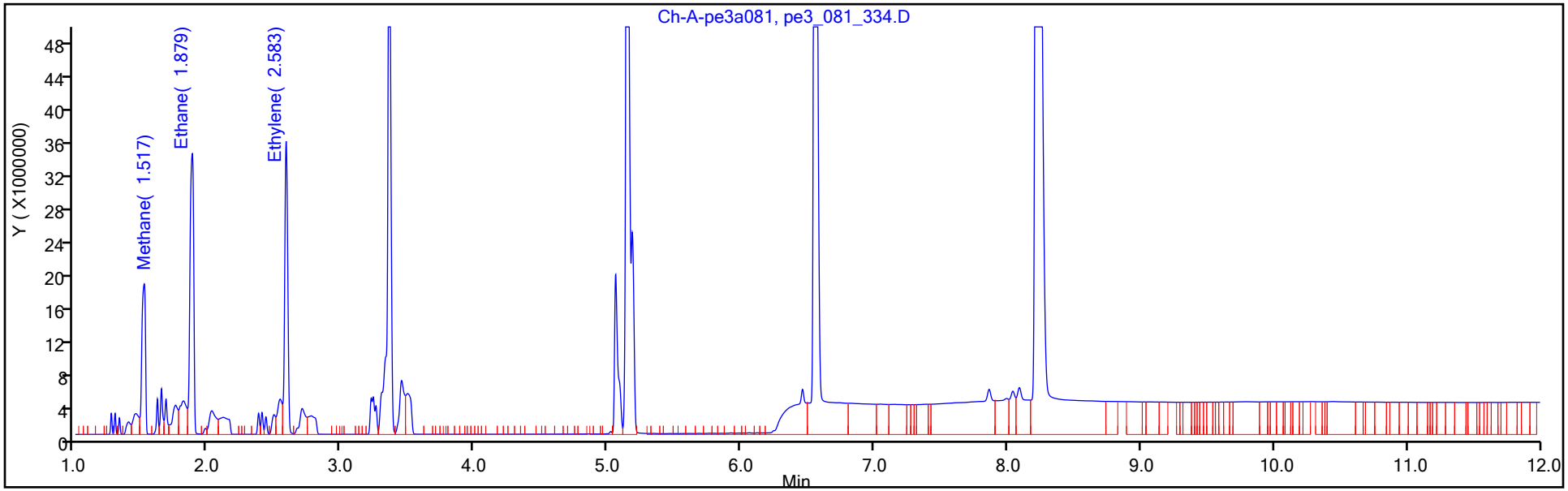
Report Date: 08-Mar-2023 11:01:24 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

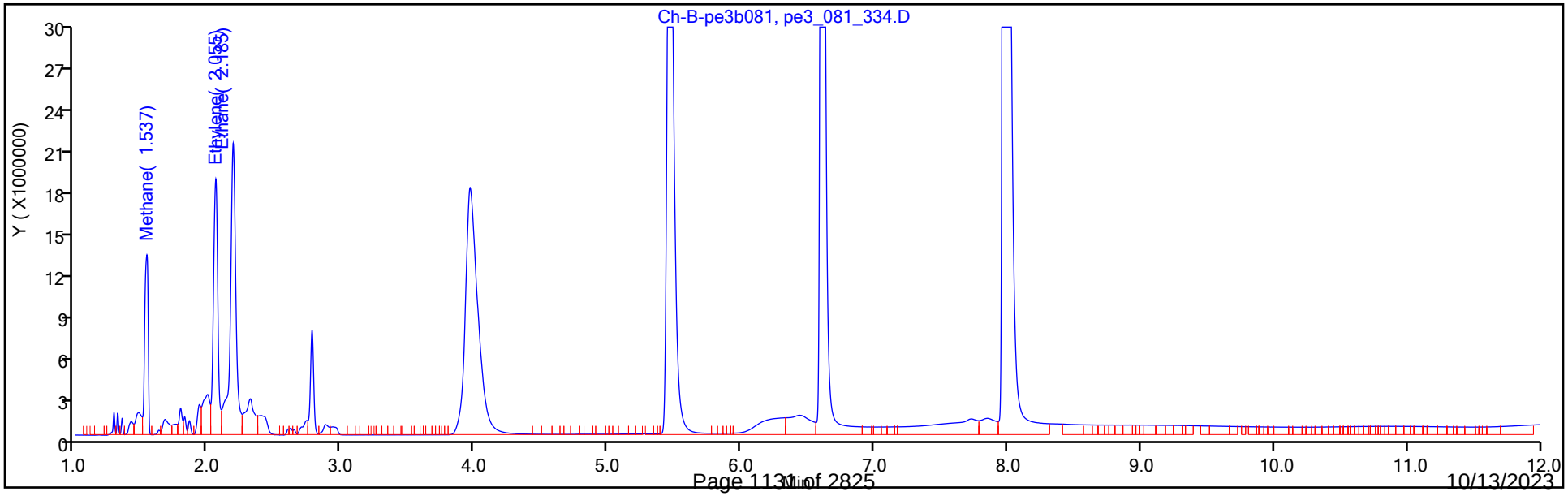
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_334.D

Injection Date:	07-Mar-2023 13:42:50	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_335.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-Mar-2023 14:01:42 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:25 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: YMS1 Date: 07-Mar-2023 14:50:45

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.517	1.517	0.000	75211913	154.5	159.9	
2	1.537	1.536	0.001	55896681	154.5	156.9	
2 Ethane							M
1	1.877	1.879	-0.002	143922467	290.6	316.9	
2	2.184	2.184	0.000	140085370	290.6	308.9	M
3 Ethylene							
1	2.573	2.591	-0.018	118381920	269.6	287.5	
2	2.055	2.055	0.000	93336371	269.6	293.9	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00027 Amount Added: 400.00 Units: uL

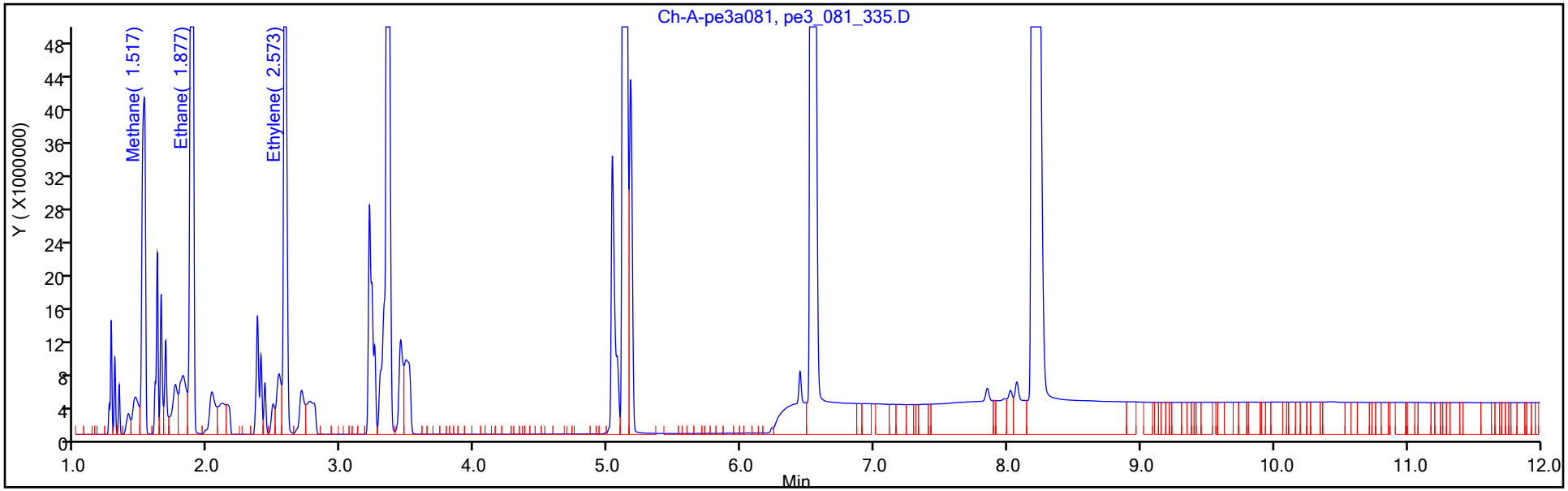
Report Date: 08-Mar-2023 11:01:25 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

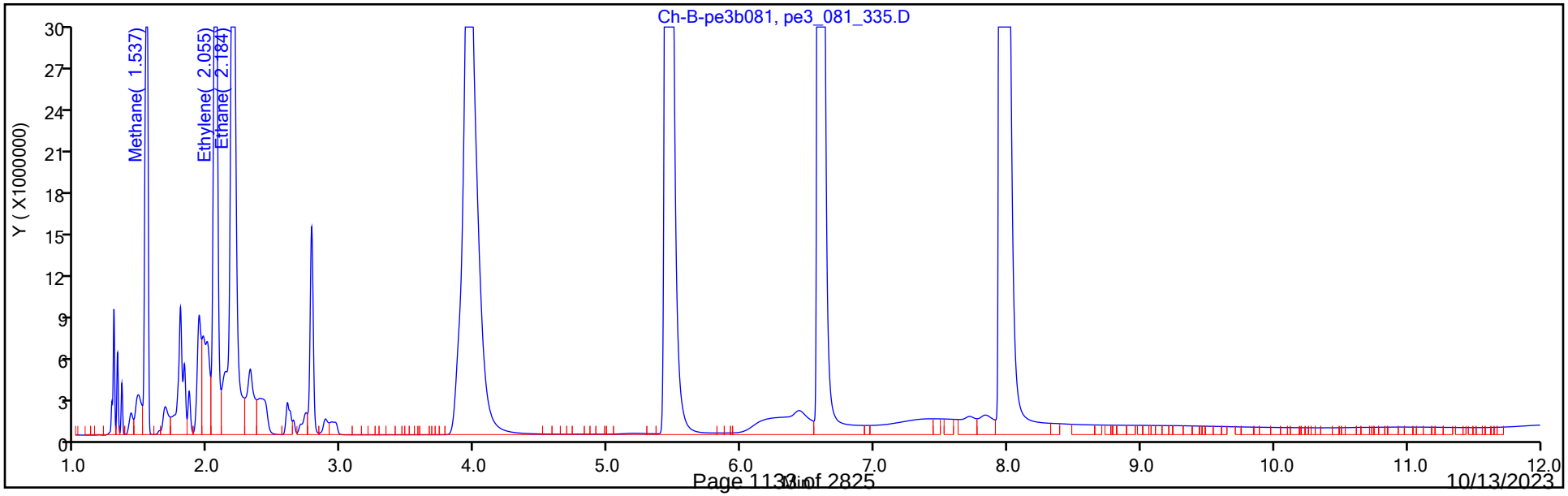
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_335.D

Injection Date:	07-Mar-2023 14:01:42	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_336.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-Mar-2023 14:20:35 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:26 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: YMS1 Date: 07-Mar-2023 15:30:07

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.517	1.517	0.000	107209811	231.8	228.6	
2	1.537	1.536	0.001	82194403	231.8	230.8	
2 Ethane							
1	1.876	1.879	-0.003	204674737	435.9	452.2	
2	2.184	2.184	0.000	208059561	435.9	458.8	
3 Ethylene							
1	2.568	2.591	-0.023	169729524	404.4	413.2	
2	2.053	2.055	-0.002	140235967	404.4	441.6	

QC Flag Legend
Processing Flags

Reagents:
_RSK_STK_00027 Amount Added: 600.00 Units: uL

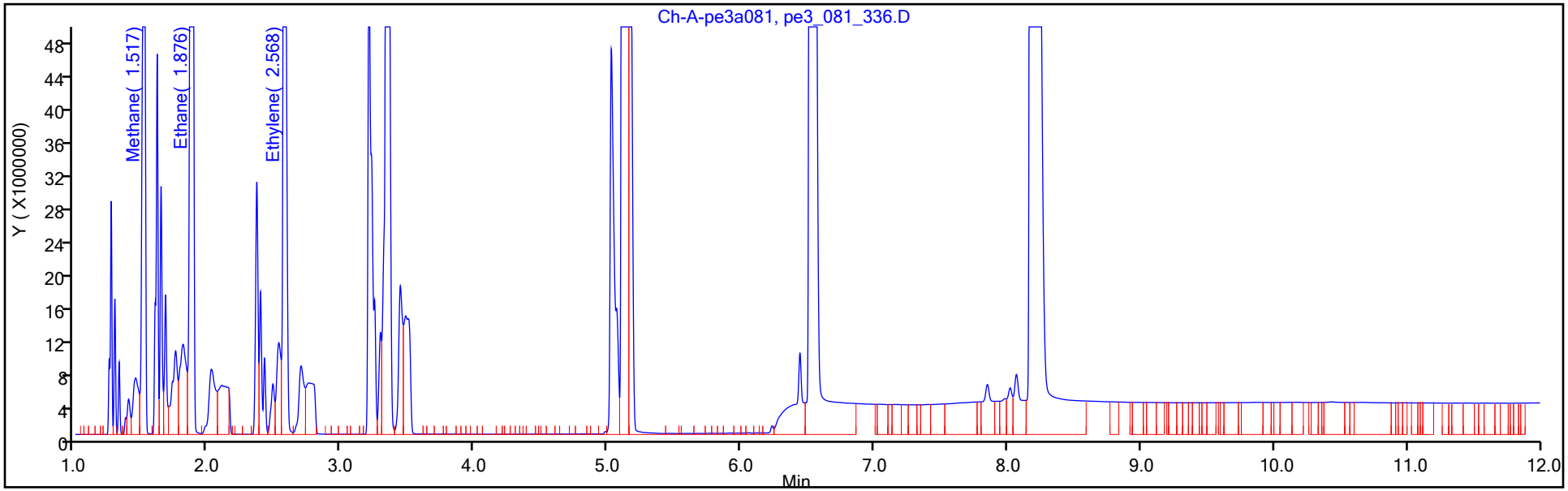
Report Date: 08-Mar-2023 11:01:26 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

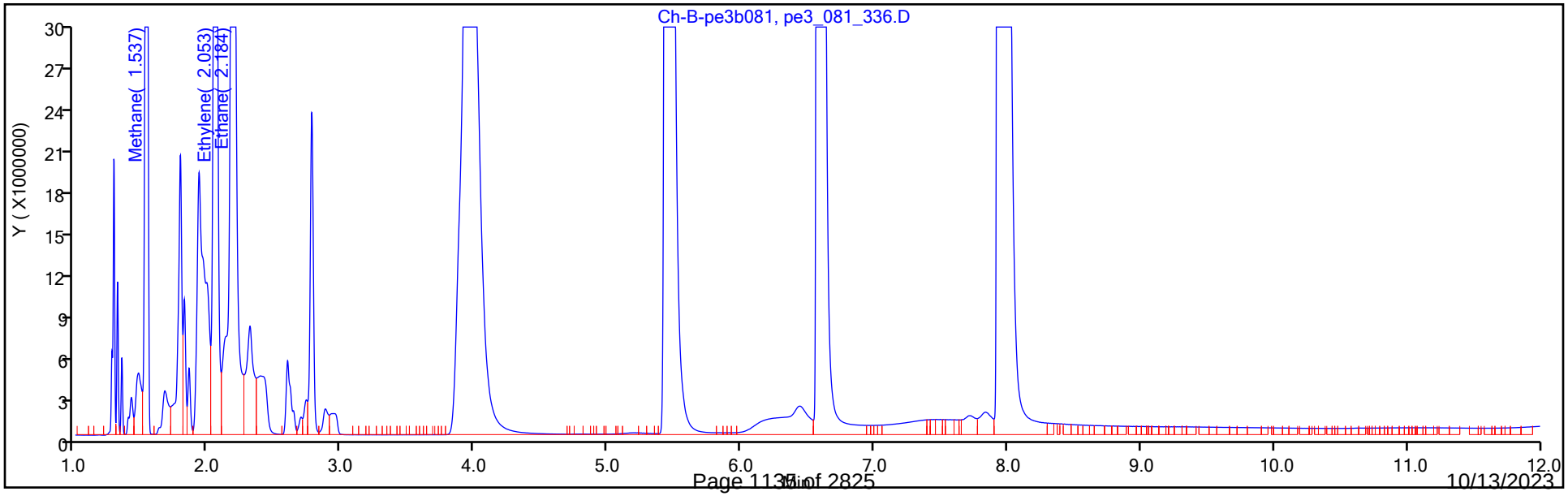
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_336.D

Injection Date:	07-Mar-2023 14:20:35	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_337.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 07-Mar-2023 14:39:26 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:27 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: YMS1 Date: 07-Mar-2023 15:41:52

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.517	1.517	0.000	150120486	309.1	320.8	
2	1.537	1.536	0.001	118115016	309.1	331.6	
2 Ethane							M
1	1.884	1.879	0.005	242362738	581.2	536.1	
2	2.181	2.184	-0.003	295247439	581.2	651.0	M
3 Ethylene							
1	2.568	2.591	-0.023	208832706	539.2	508.9	
2	2.052	2.055	-0.003	189975782	539.2	598.2	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00027 Amount Added: 800.00 Units: uL

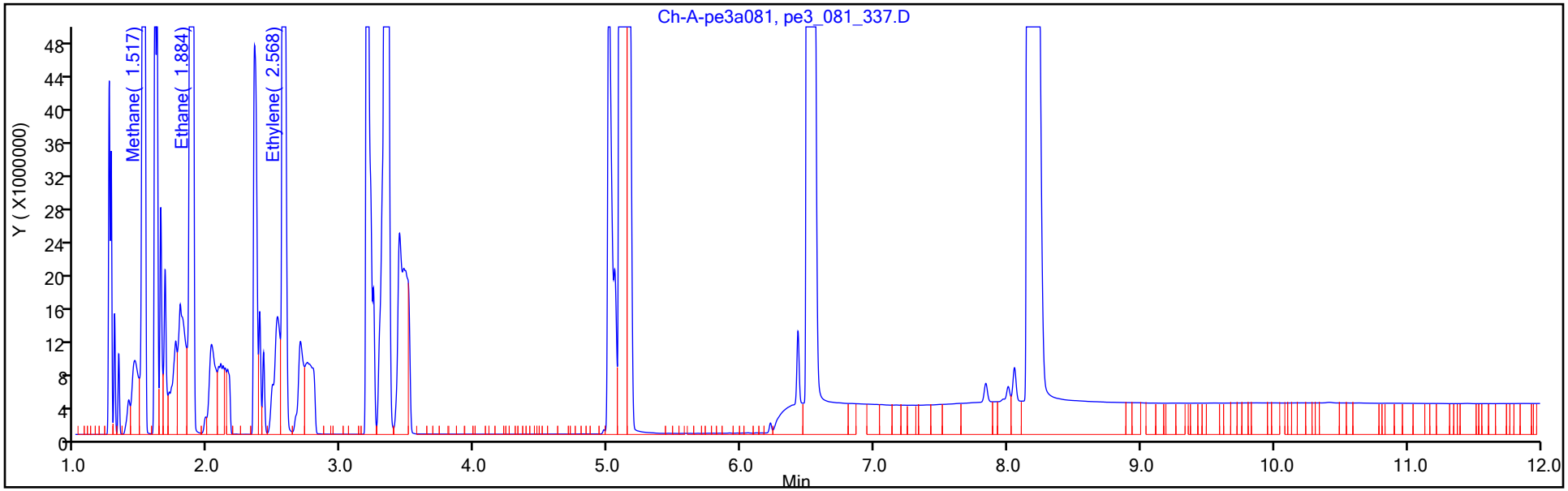
Report Date: 08-Mar-2023 11:01:28 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

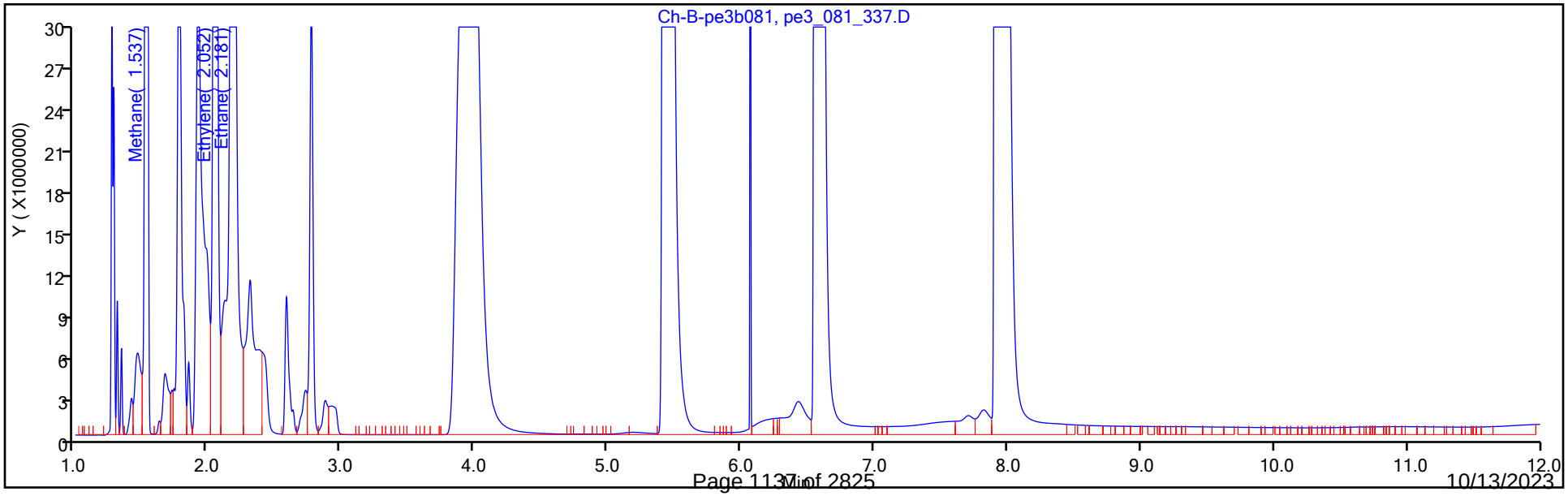
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_337.D

Injection Date:	07-Mar-2023 14:39:26	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 07-Mar-2023 14:58:19 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 08-Mar-2023 11:01:28 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1650

First Level Reviewer: YMS1 Date: 07-Mar-2023 15:47:24

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.517	1.517	0.000	176088028	386.4	376.5	
2	1.537	1.536	0.001	140794319	386.4	395.3	
2 Ethane							
1	1.885	1.879	0.006	254788601	726.5	563.8	
2	2.188	2.184	0.004	344143345	726.5	758.8	
3 Ethylene							
1	2.568	2.591	-0.023	229696926	673.9	560.0	
2	2.053	2.055	-0.002	238752071	673.9	751.8	

QC Flag Legend

Processing Flags

Reagents:

_RSK_STK_00027 Amount Added: 1000.00 Units: uL

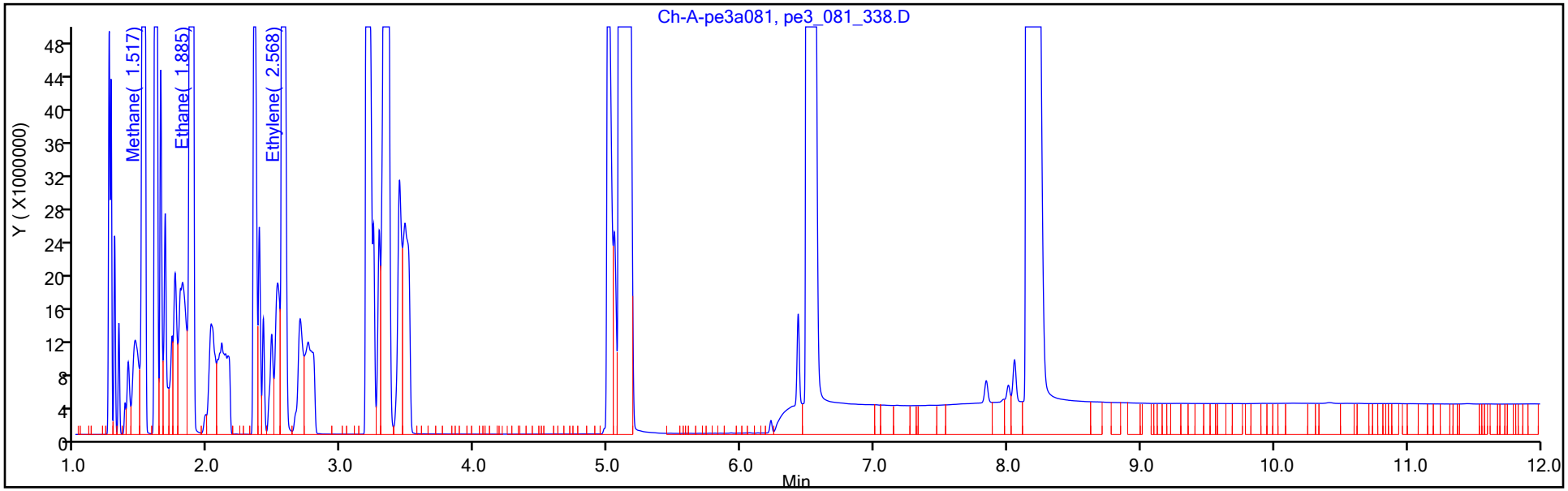
Report Date: 08-Mar-2023 11:01:29 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

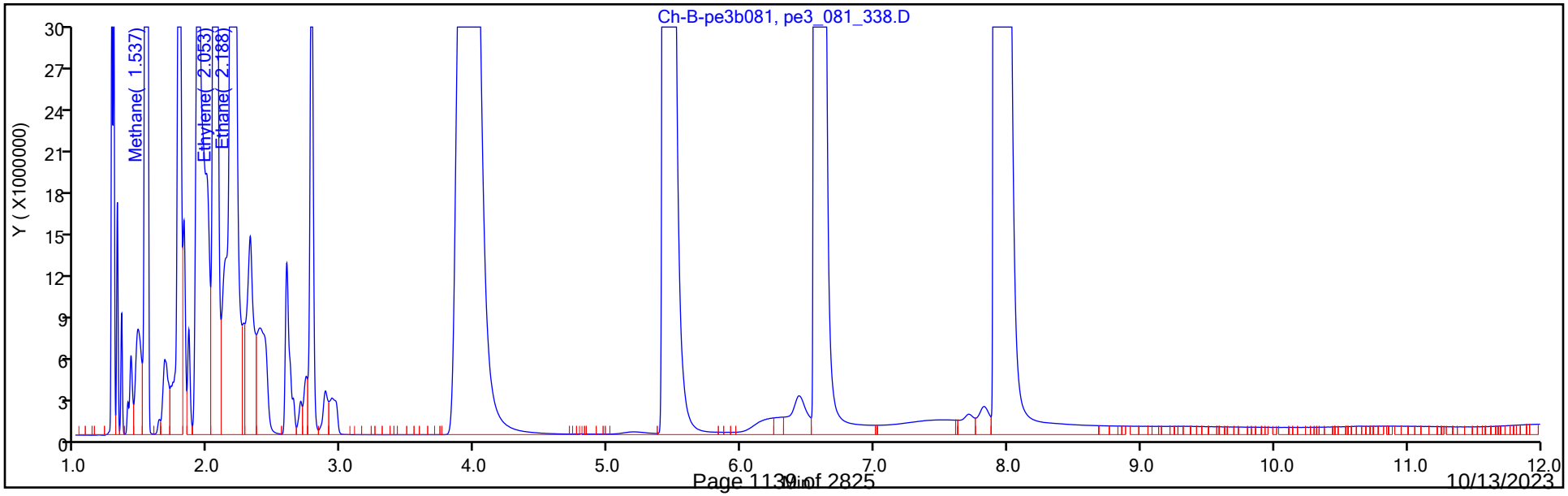
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Injection Date:	07-Mar-2023 14:58:19	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	IC			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Calibration / Methane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

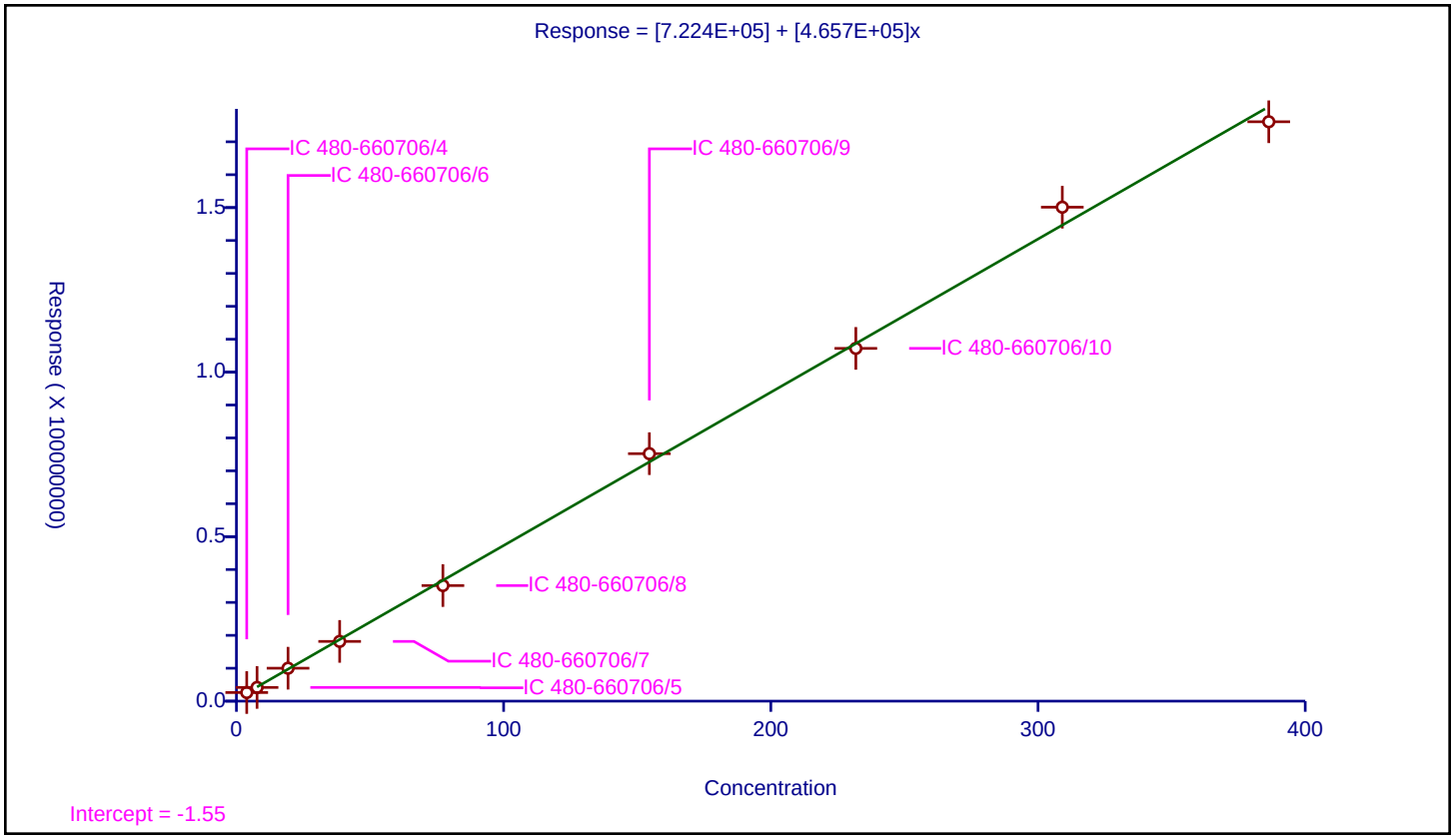
Curve Coefficients

Intercept:	7.224E+05
Slope:	4.657E+05

Error Coefficients

Standard Error:	2980000
Relative Standard Error:	4.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 480-660706/4	3.863588	2615901.0			677065.16344	Y
2	IC 480-660706/5	7.727176	4167543.0			539335.812487	Y
3	IC 480-660706/6	19.317941	10005957.0			517961.873296	Y
4	IC 480-660706/7	38.635882	18153063.0			469849.836331	Y
5	IC 480-660706/8	77.271765	35129261.0			454619.628964	Y
6	IC 480-660706/9	154.543529	75211913.0			486671.381754	Y
7	IC 480-660706/10	231.815294	107209811.0			462479.4555	Y
8	IC 480-660706/11	309.087059	150120486.0			485689.975412	Y
9	IC 480-660706/12	386.358824	176088028.0			455762.926265	Y



10/13/2023
10:08 AM

Calibration / Ethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

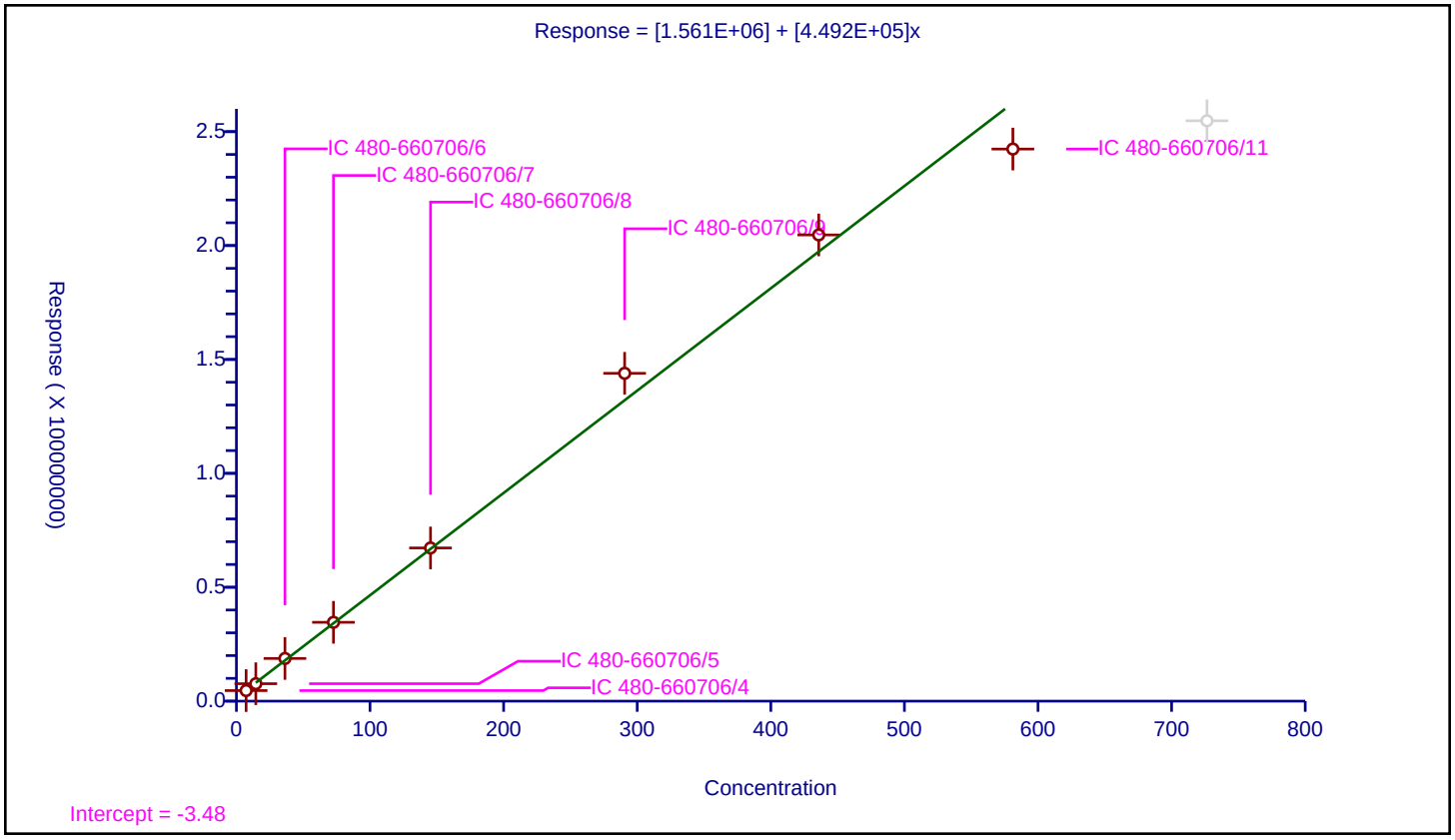
Curve Coefficients

Intercept:	1.561E+06
Slope:	4.492E+05

Error Coefficients

Standard Error:	10000000
Relative Standard Error:	6.6
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 480-660706/4	7.264706	4640836.0			638819.53036	Y
2	IC 480-660706/5	14.529412	7655561.0			526900.959514	Y
3	IC 480-660706/6	36.323529	18734918.0			515779.119028	Y
4	IC 480-660706/7	72.647059	34607654.0			476380.662348	Y
5	IC 480-660706/8	145.294118	67245584.0			462823.85749	Y
6	IC 480-660706/9	290.588235	143922467.0			495279.744737	Y
7	IC 480-660706/10	435.882353	204674737.0			469564.173954	Y
8	IC 480-660706/11	581.176471	242362738.0			417020.905466	Y
9	IC 480-660706/12	726.470588	254788601.0			350721.151174	N



Calibration / Ethylene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

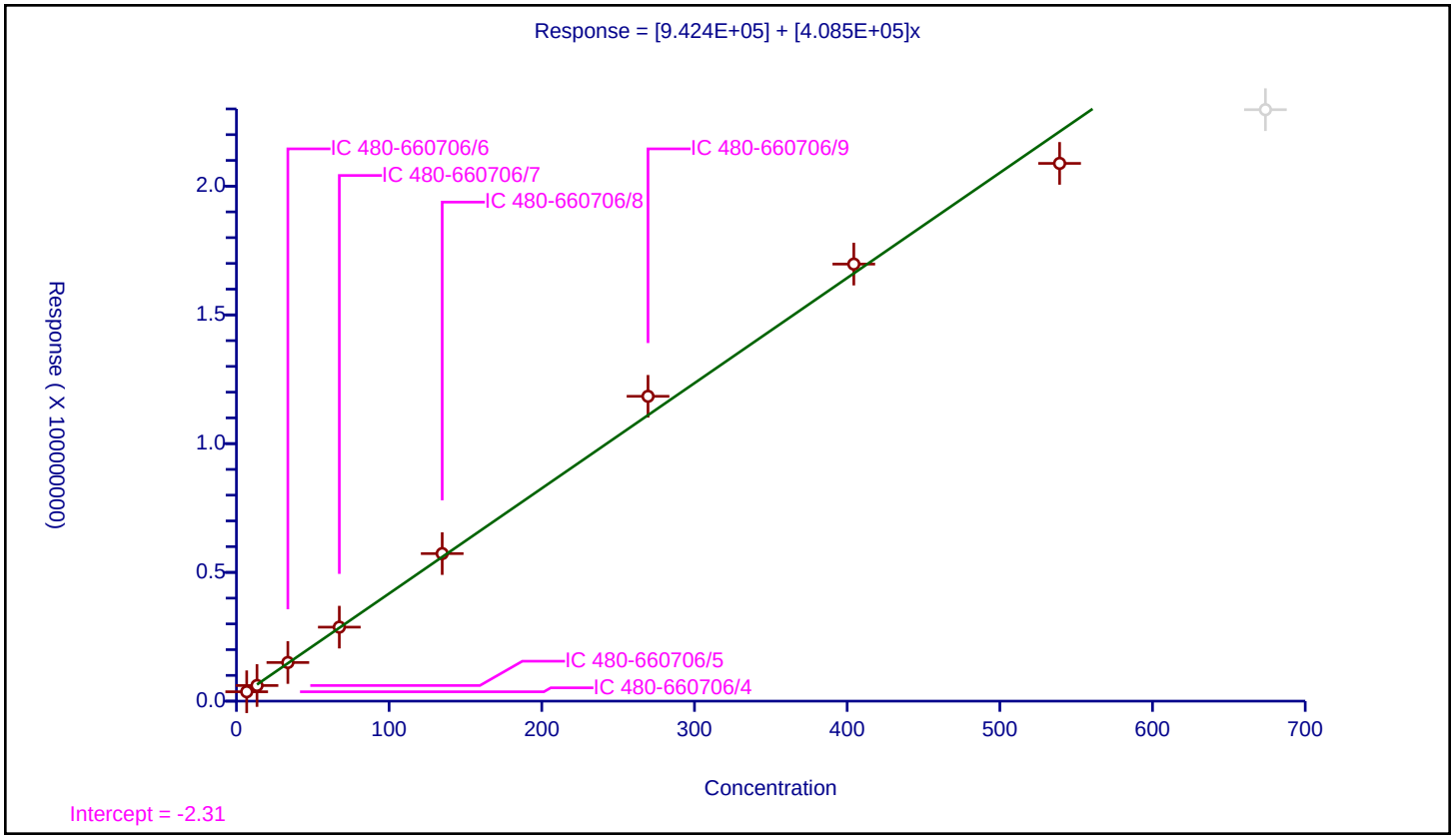
Curve Coefficients

Intercept:	9.424E+05
Slope:	4.085E+05

Error Coefficients

Standard Error:	6070000
Relative Standard Error:	4.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 480-660706/4	6.739412	3648347.0			541345.020512	Y
2	IC 480-660706/5	13.478824	6064923.0			449959.374182	Y
3	IC 480-660706/6	33.697059	14999880.0			445139.146374	Y
4	IC 480-660706/7	67.394118	28740443.0			426453.287073	Y
5	IC 480-660706/8	134.788235	57302279.0			425128.193681	Y
6	IC 480-660706/9	269.576471	118381920.0			439140.403247	Y
7	IC 480-660706/10	404.364706	169729524.0			419743.665881	Y
8	IC 480-660706/11	539.152941	208832706.0			387334.817361	Y
9	IC 480-660706/12	673.941176	229696926.0			340826.371825	N



10/13/2023
10:08 AM

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-660706/13 Calibration Date: 03/07/2023 15:17

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_081_339.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		471150		37.7	38.8	-2.8	15.0
Ethane	Lin1		475804		73.5	72.6	1.1	15.0
Ethene	Lin1		420240		67.7	68.0	-0.5	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICV 480-660706/13 Calibration Date: 03/07/2023 15:17

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_081_339.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.88	1.63	2.13
Ethene	2.57	2.34	2.84

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_339.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 07-Mar-2023 15:17:11 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub3

Method: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 07-Mar-2023 20:22:05 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1630

First Level Reviewer: YMS1 Date: 07-Mar-2023 15:42:10

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.519	1.517	0.002	18275922	38.8	37.7	
2	1.539	1.536	0.003	11904071	38.8	34.2	
2 Ethane							M
1	1.877	1.879	-0.002	34565740	72.6	73.5	
2	2.187	2.184	0.003	29320181	72.6	64.6	M
3 Ethylene							
1	2.569	2.591	-0.022	28591136	68.0	67.7	
2	2.056	2.055	0.001	18831351	68.0	59.3	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00026 Amount Added: 100.00 Units: uL

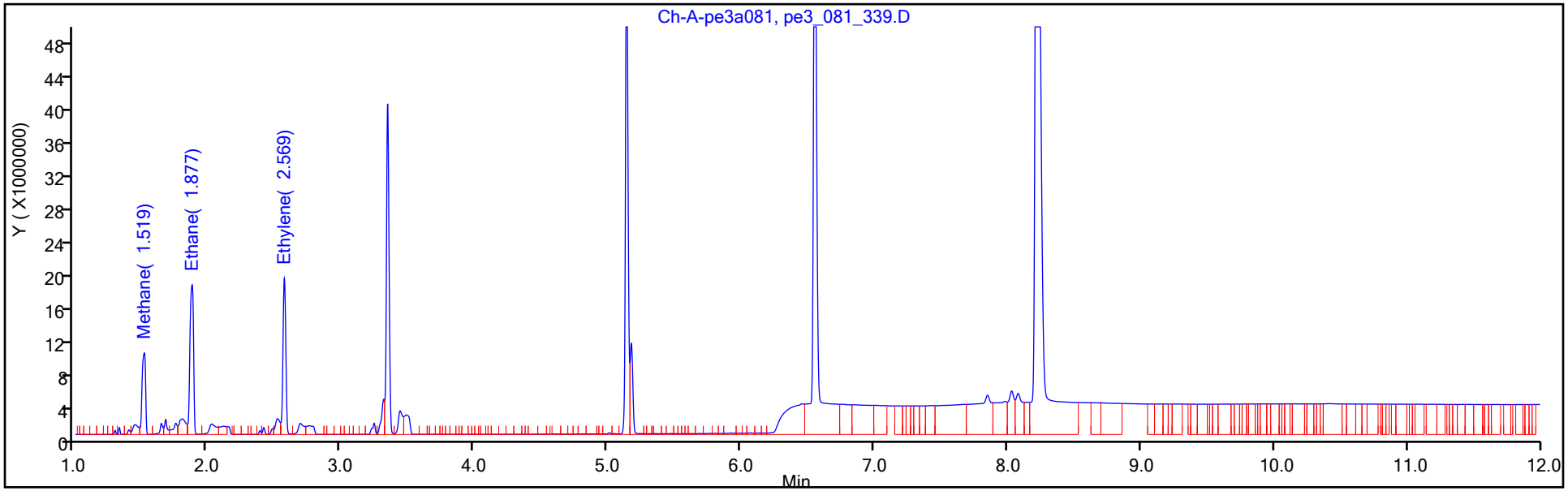
Report Date: 07-Mar-2023 21:46:29 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Buffalo

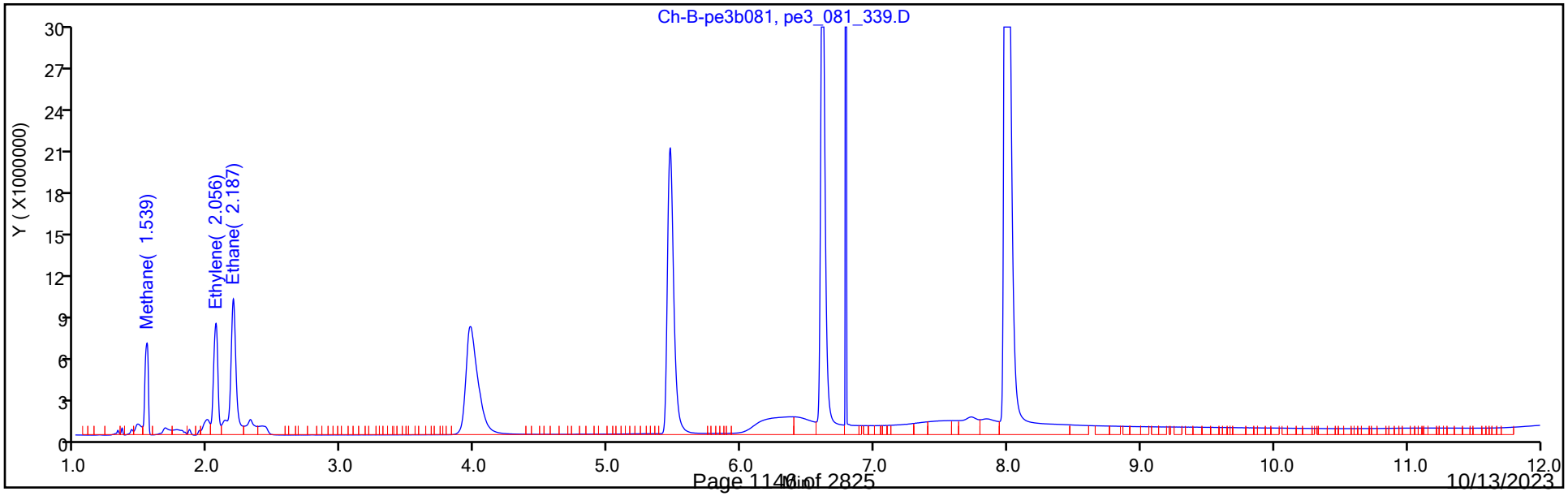
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_339.D

Injection Date:	07-Mar-2023 15:17:11	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ICV			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685202/2 Calibration Date: 09/27/2023 10:32

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_145.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		498899		40.2	39.0	3.1	15.0
Ethane	Lin1		506945		79.0	73.1	8.1	15.0
Ethene	Lin1		442982		71.5	68.0	5.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685202/2 Calibration Date: 09/27/2023 10:32

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_145.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.90	1.65	2.15
Ethene	2.59	2.34	2.84

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_145.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 27-Sep-2023 10:32:09 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 28-Sep-2023 09:02:41 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1680

First Level Reviewer: RH3X Date: 27-Sep-2023 10:57:10

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.521	0.000	19467644	39.0	40.2	
2	1.536	1.536	0.000	14523316	39.0	40.8	
2 Ethane							
1	1.900	1.900	0.000	37045756	73.1	79.0	
2	2.172	2.172	0.000	36202236	73.1	79.8	
3 Ethylene							
1	2.589	2.589	0.000	30138381	68.0	71.5	
2	2.044	2.044	0.000	23475424	68.0	73.9	

QC Flag Legend

Processing Flags

Reagents:

_RSK_STK_00028 Amount Added: 100.00 Units: uL

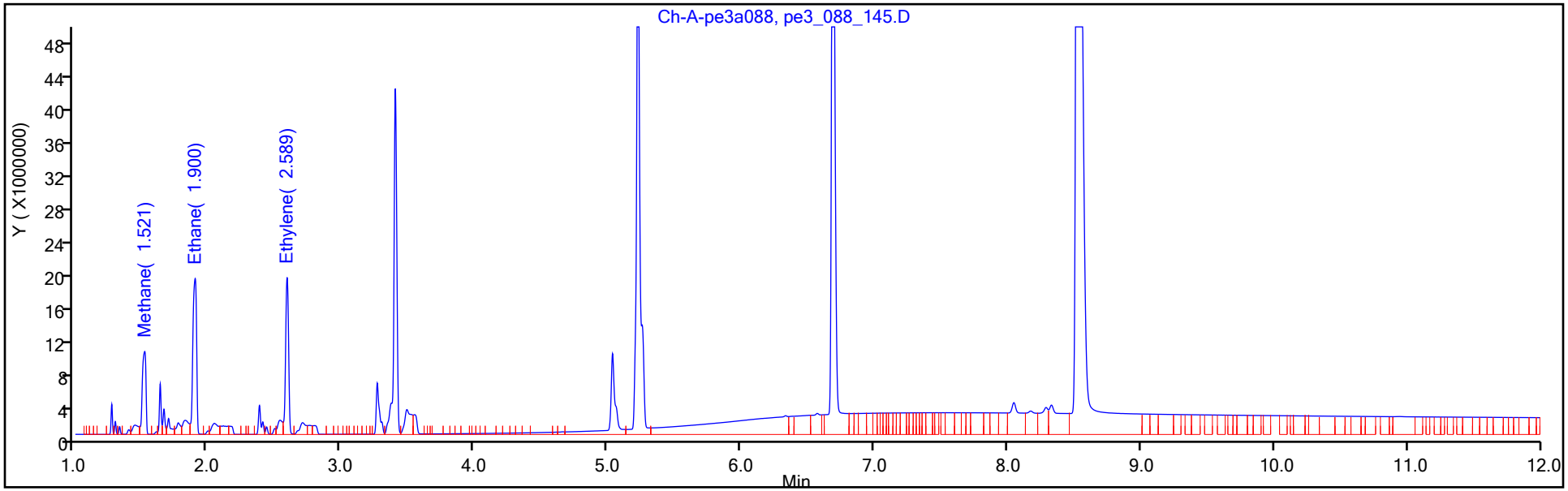
Report Date: 28-Sep-2023 09:02:41 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

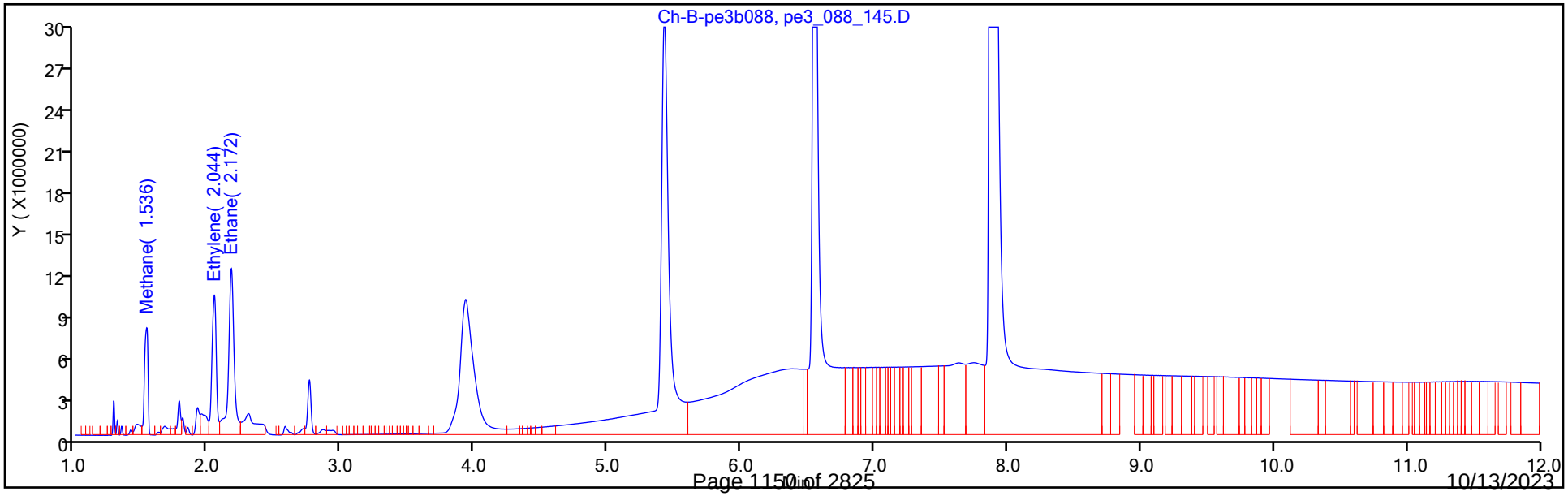
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_145.D

Injection Date:	27-Sep-2023 10:32:09	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ccv			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685202/11 Calibration Date: 09/27/2023 13:24

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_154.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		519865		42.0	39.0	7.6	15.0
Ethane	Lin1		525893		82.1	73.1	12.3	15.0
Ethene	Lin1		454742		73.4	68.0	7.9	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685202/11 Calibration Date: 09/27/2023 13:24

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_154.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.90	1.65	2.15
Ethene	2.61	2.34	2.84

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_154.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 27-Sep-2023 13:24:39 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 28-Sep-2023 09:02:50 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1680

First Level Reviewer: RH3X Date: 27-Sep-2023 13:43:15

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	20285749	39.0	42.0	
2	1.536	1.536	0.000	15297655	39.0	43.0	
2 Ethane							M
1	1.903	1.900	0.003	38430384	73.1	82.1	
2	2.172	2.172	0.000	35509534	73.1	78.3	M
3 Ethylene							
1	2.611	2.589	0.022	30938496	68.0	73.4	
2	2.044	2.044	0.000	25502482	68.0	80.3	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00028 Amount Added: 100.00 Units: uL

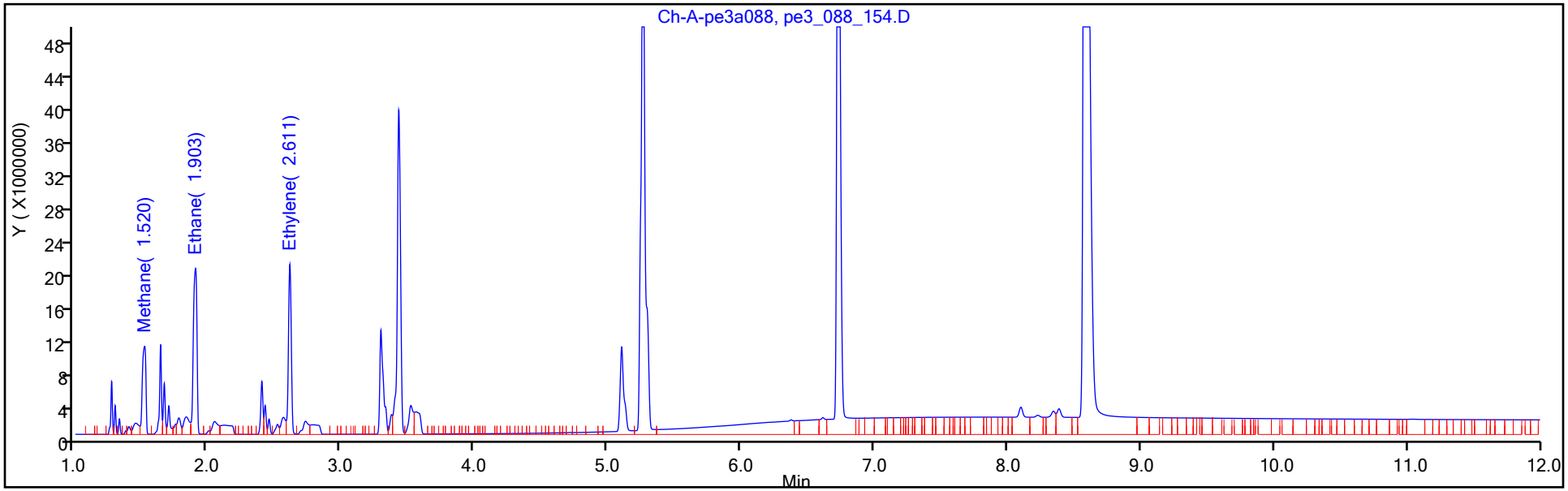
Report Date: 28-Sep-2023 09:02:50 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

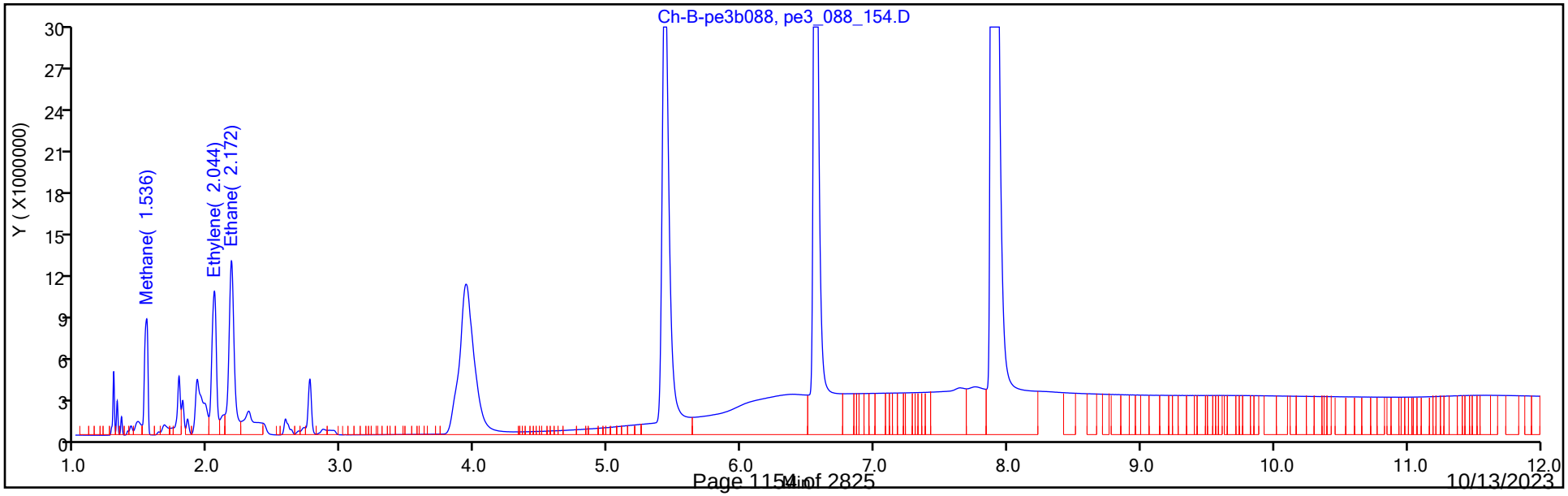
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_154.D

Injection Date:	27-Sep-2023 13:24:39	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ccv			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685350/2 Calibration Date: 09/28/2023 09:43

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_162.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		478136		38.5	39.0	-1.3	15.0
Ethane	Lin1		487100		75.8	73.1	3.7	15.0
Ethene	Lin1		414331		66.7	68.0	-2.0	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685350/2 Calibration Date: 09/28/2023 09:43

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_162.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.90	1.65	2.15
Ethene	2.60	2.35	2.85

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_162.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 28-Sep-2023 09:43:45 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:35 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

First Level Reviewer: RH3X Date: 28-Sep-2023 11:08:15

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.521	0.000	18657439	39.0	38.5	
2	1.537	1.537	0.000	13975155	39.0	39.2	
2 Ethane							
1	1.903	1.903	0.000	35595577	73.1	75.8	
2	2.172	2.172	0.000	35290269	73.1	77.8	
3 Ethylene							
1	2.597	2.597	0.000	28189160	68.0	66.7	
2	2.044	2.044	0.000	22005288	68.0	69.3	

QC Flag Legend

Processing Flags

Reagents:

_RSK_STK_00028 Amount Added: 100.00 Units: uL

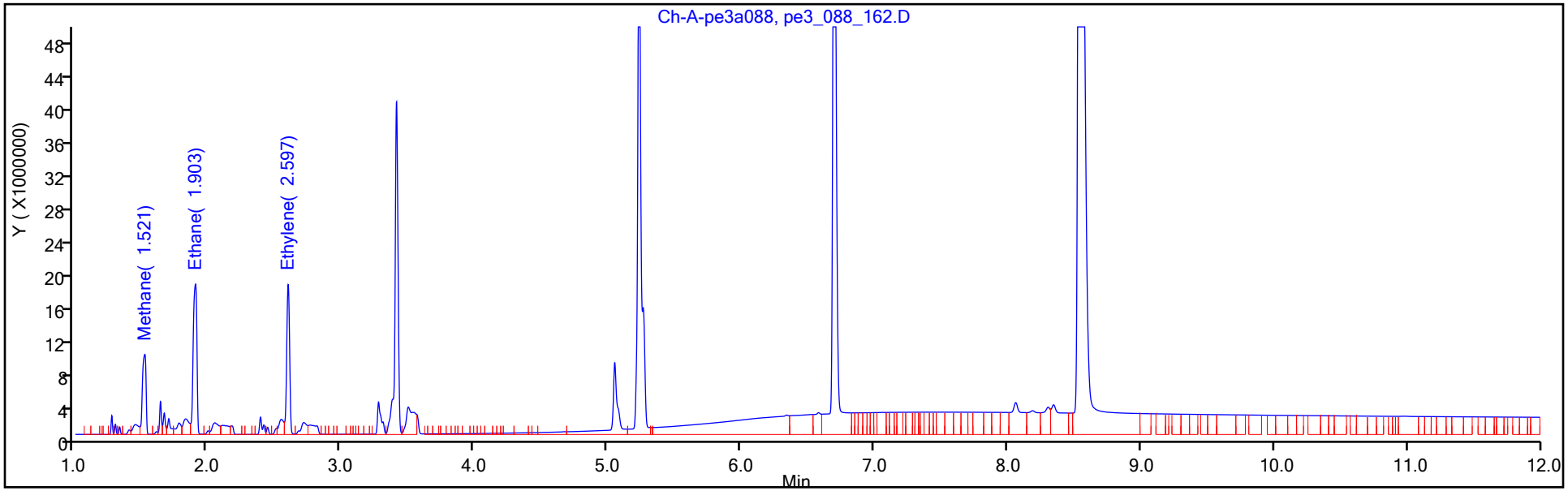
Report Date: 29-Sep-2023 06:30:35 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

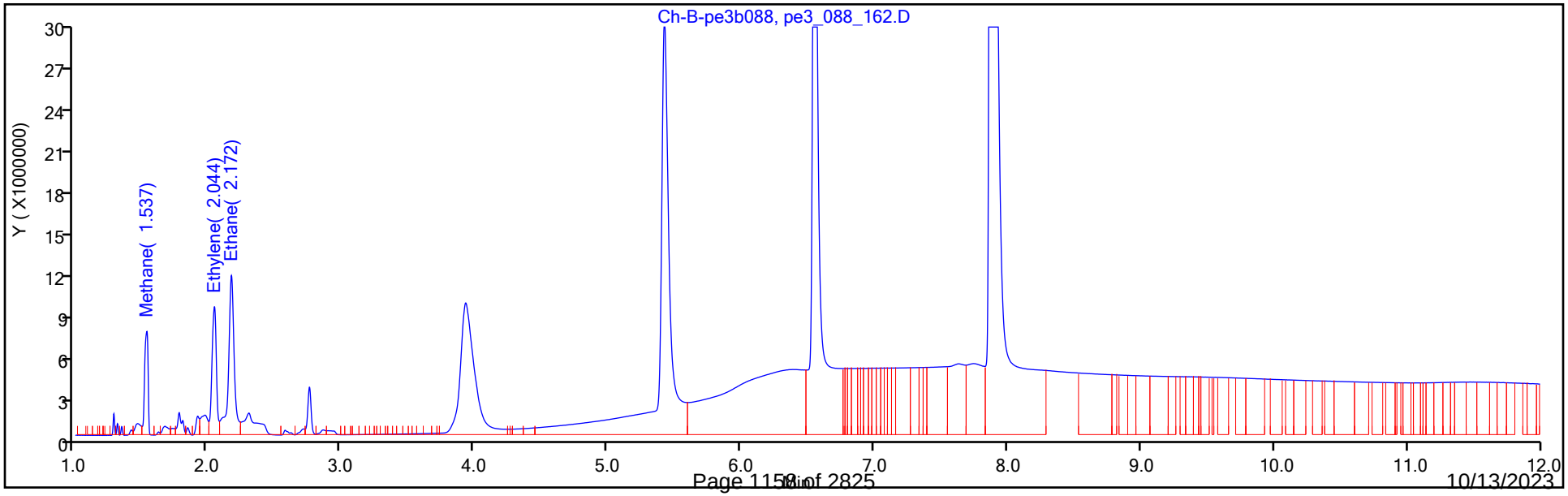
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_162.D

Injection Date:	28-Sep-2023 09:43:45	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ccv			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685350/20 Calibration Date: 09/28/2023 15:23

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_180.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		485950		39.2	39.0	0.4	15.0
Ethane	Lin1		494619		77.0	73.1	5.4	15.0
Ethene	Lin1		424635		68.4	68.0	0.6	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685350/20 Calibration Date: 09/28/2023 15:23

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_180.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.91	1.65	2.15
Ethene	2.62	2.35	2.85

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_180.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 28-Sep-2023 15:23:13 ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:34 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

First Level Reviewer: RH3X Date: 29-Sep-2023 06:30:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.521	0.000	18962345	39.0	39.2	
2	1.536	1.537	-0.001	14429553	39.0	40.5	
2 Ethane							
1	1.905	1.903	0.002	36144981	73.1	77.0	
2	2.173	2.172	0.001	37553149	73.1	82.8	
3 Ethylene							
1	2.617	2.597	0.020	28890193	68.0	68.4	
2	2.044	2.044	0.000	23473795	68.0	73.9	

QC Flag Legend

Processing Flags

Reagents:

_RSK_STK_00028 Amount Added: 100.00 Units: uL

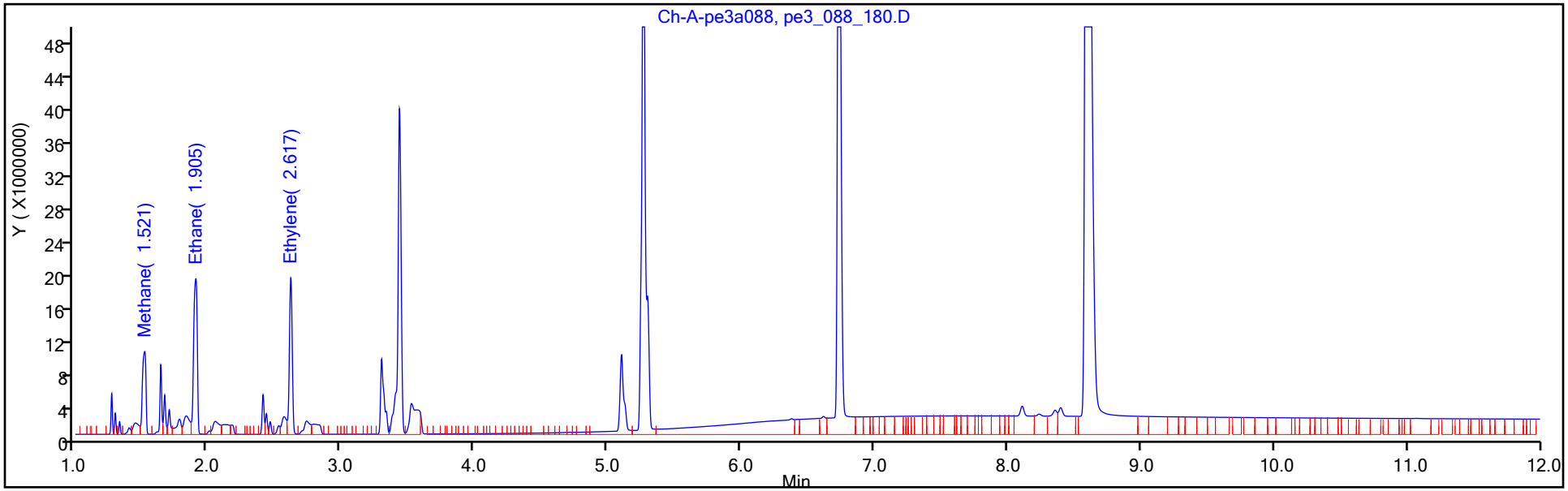
Report Date: 29-Sep-2023 06:30:34 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

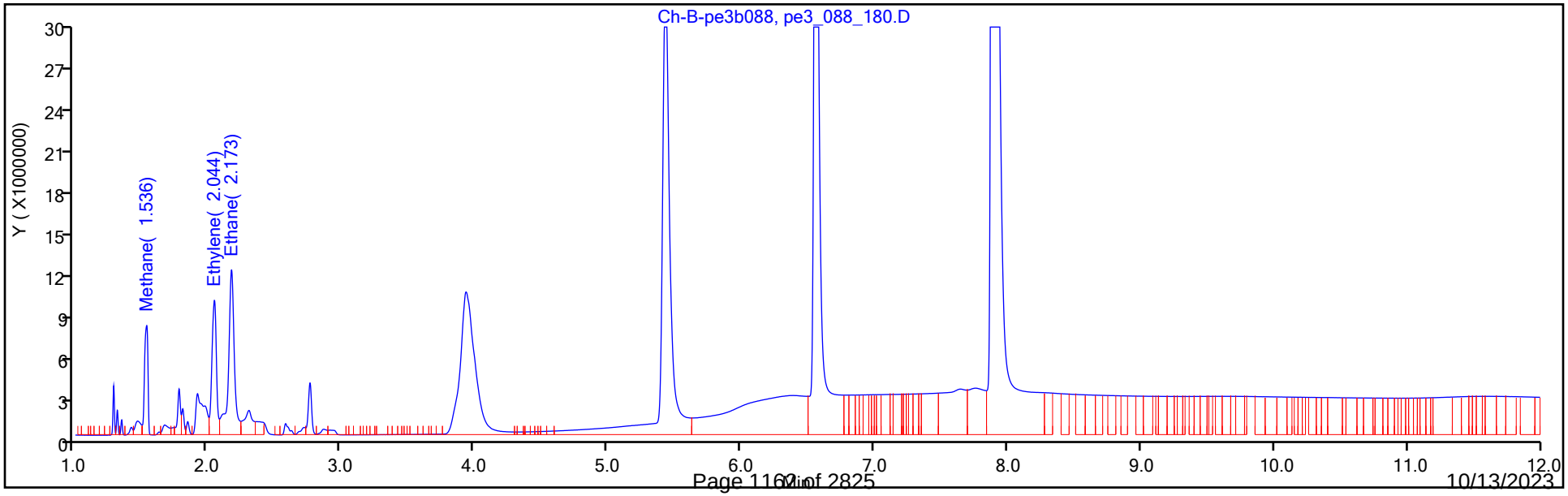
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_180.D

Injection Date:	28-Sep-2023 15:23:13	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ccv			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685513/2 Calibration Date: 09/29/2023 07:27

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_182.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		494624		39.9	39.0	2.2	15.0
Ethane	Lin1		504037		78.5	73.1	7.5	15.0
Ethene	Lin1		431049		69.5	68.0	2.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685513/2 Calibration Date: 09/29/2023 07:27

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_182.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.90	1.65	2.15
Ethene	2.59	2.35	2.85

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_182.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 29-Sep-2023 07:27:18 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 12:45:14 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

First Level Reviewer: RH3X Date: 29-Sep-2023 07:46:37

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.521	0.000	19300798	39.0	39.9	
2	1.536	1.537	-0.001	14359119	39.0	40.3	
2 Ethane							M
1	1.901	1.903	-0.002	36833276	73.1	78.5	
2	2.172	2.172	0.000	34362028	73.1	75.8	M
3 Ethylene							
1	2.593	2.597	-0.004	29326553	68.0	69.5	
2	2.044	2.044	0.000	23507760	68.0	74.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00028 Amount Added: 100.00 Units: uL

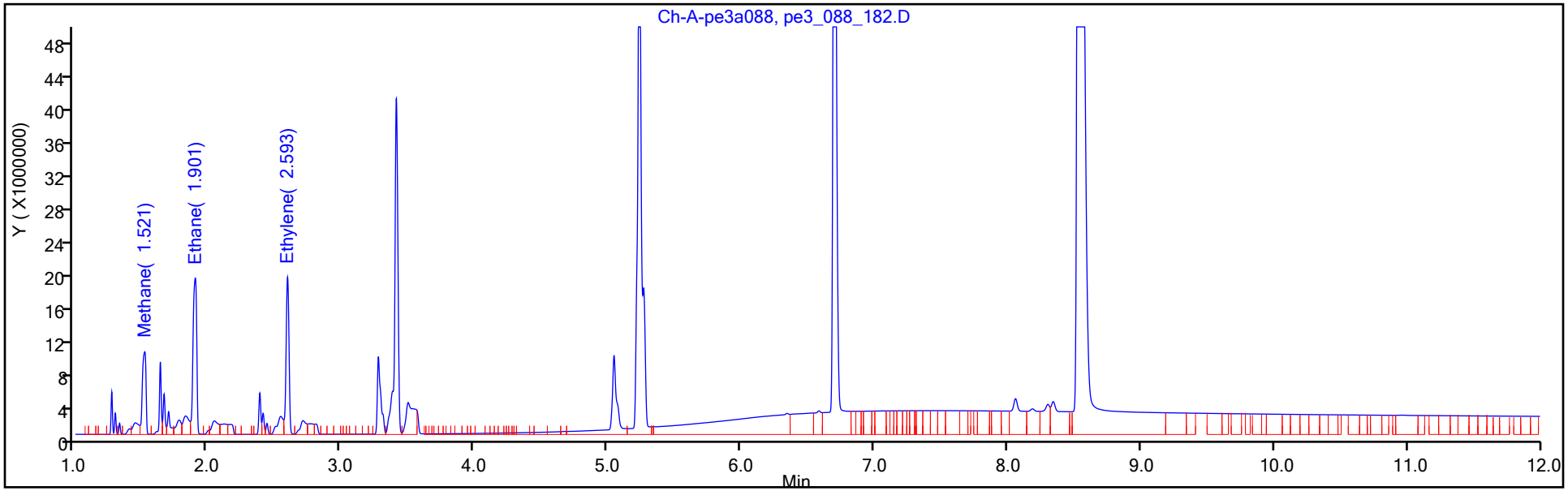
Report Date: 29-Sep-2023 12:45:14 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

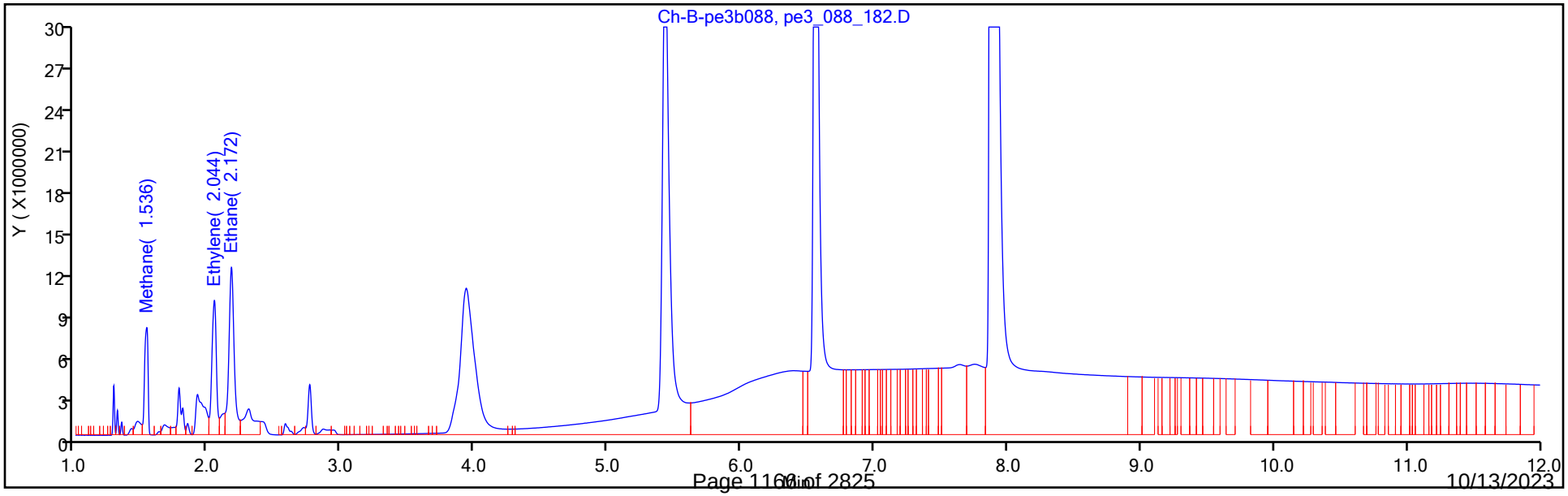
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_182.D

Injection Date:	29-Sep-2023 07:27:18	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ccv			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685513/16 Calibration Date: 09/29/2023 11:52

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_196.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		481506		38.8	39.0	-0.6	15.0
Ethane	Lin1		489253		76.1	73.1	4.2	15.0
Ethene	Lin1		422155		68.0	68.0	-0.0	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-685513/16 Calibration Date: 09/29/2023 11:52

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_196.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.91	1.65	2.15
Ethene	2.62	2.35	2.85

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_196.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 29-Sep-2023 11:52:45 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 12:45:29 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.521	0.000	18788940	39.0	38.8	
2	1.536	1.537	-0.001	14186443	39.0	39.8	
2 Ethane							
1	1.907	1.903	0.004	35752847	73.1	76.1	
2	2.173	2.172	0.001	33261341	73.1	73.3	
3 Ethylene							
1	2.620	2.597	0.023	28721434	68.0	68.0	
2	2.045	2.044	0.001	23416966	68.0	73.7	

Reagents:

_RSK_STK_00028 Amount Added: 100.00 Units: uL

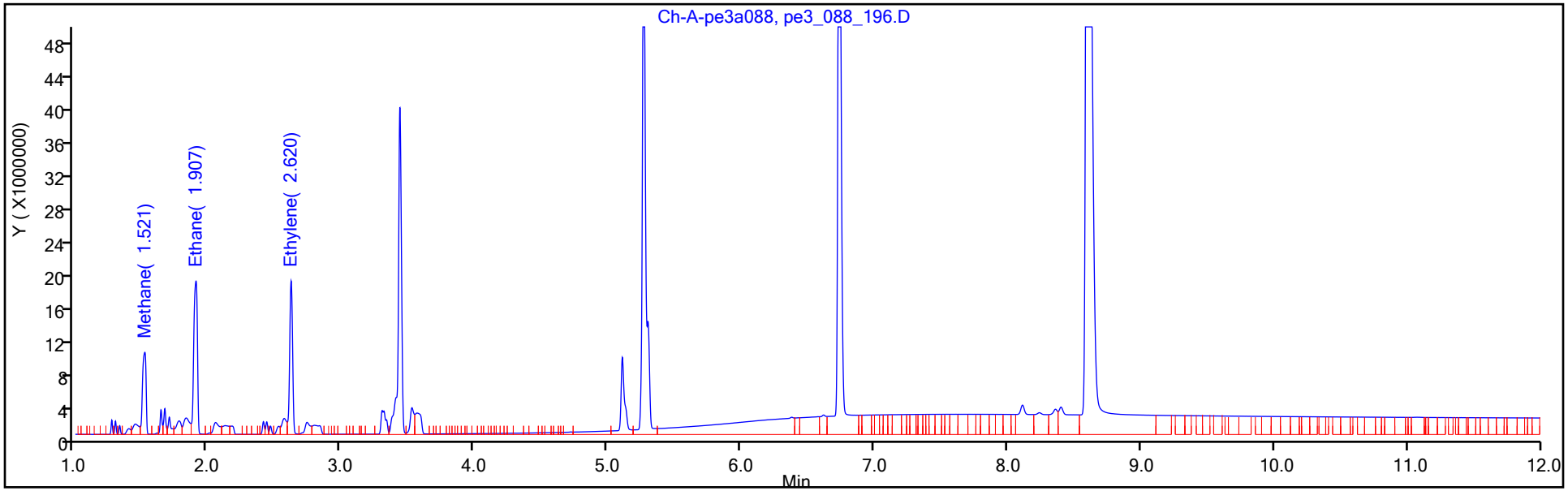
Report Date: 29-Sep-2023 12:45:30 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

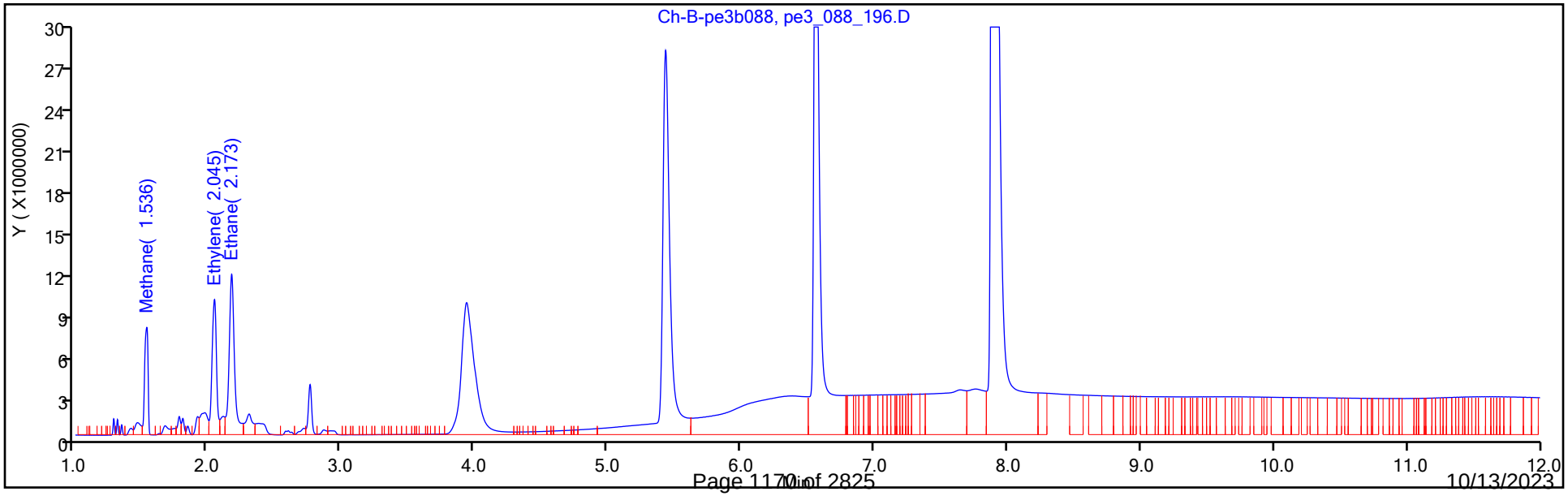
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_196.D

Injection Date:	29-Sep-2023 11:52:45	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ccv			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-686019/2 Calibration Date: 10/04/2023 07:23

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_225.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		536711		43.4	39.0	11.3	15.0
Ethane	Lin1		535246		83.6	73.1	14.4	15.0
Ethene	Lin1		453203		73.2	68.0	7.6	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-686019/2 Calibration Date: 10/04/2023 07:23

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_225.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.90	1.65	2.15
Ethene	2.58	2.33	2.83

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_225.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 04-Oct-2023 07:23:03 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

First Level Reviewer: RH3X Date: 04-Oct-2023 07:50:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.519	1.519	0.000	20943104	39.0	43.4	
2	1.535	1.535	0.000	15023589	39.0	42.2	
2 Ethane							
1	1.896	1.896	0.000	39113902	73.1	83.6	
2	2.171	2.171	0.000	34841525	73.1	76.8	
3 Ethylene							a
1	2.579	2.579	0.000	30833825	68.0	73.2	a
2	2.043	2.043	0.000	23093728	68.0	72.7	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

_RSK_STK_00028 Amount Added: 100.00 Units: uL

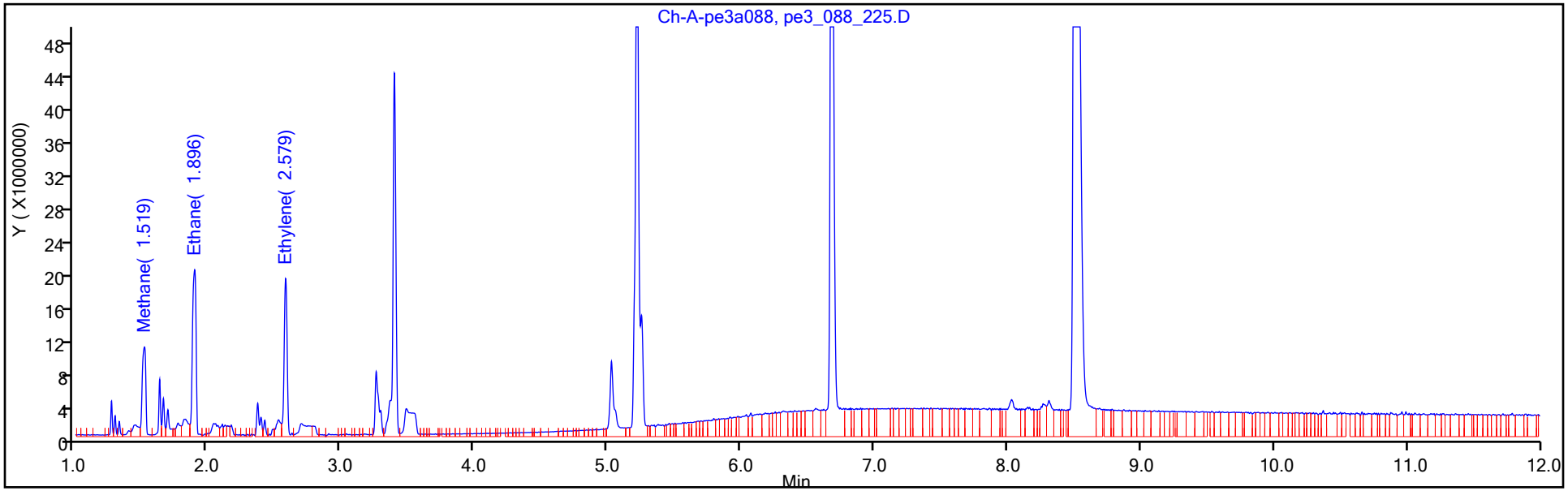
Report Date: 05-Oct-2023 06:29:41 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

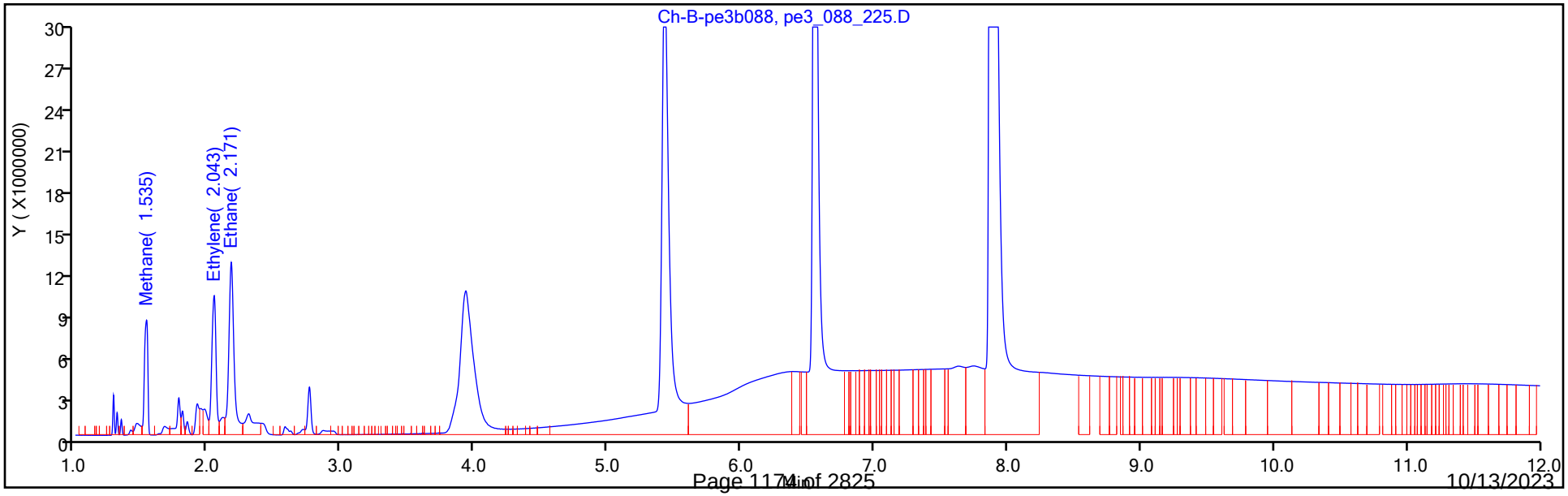
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_225.D

Injection Date:	04-Oct-2023 07:23:03	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ccv			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins Buffalo

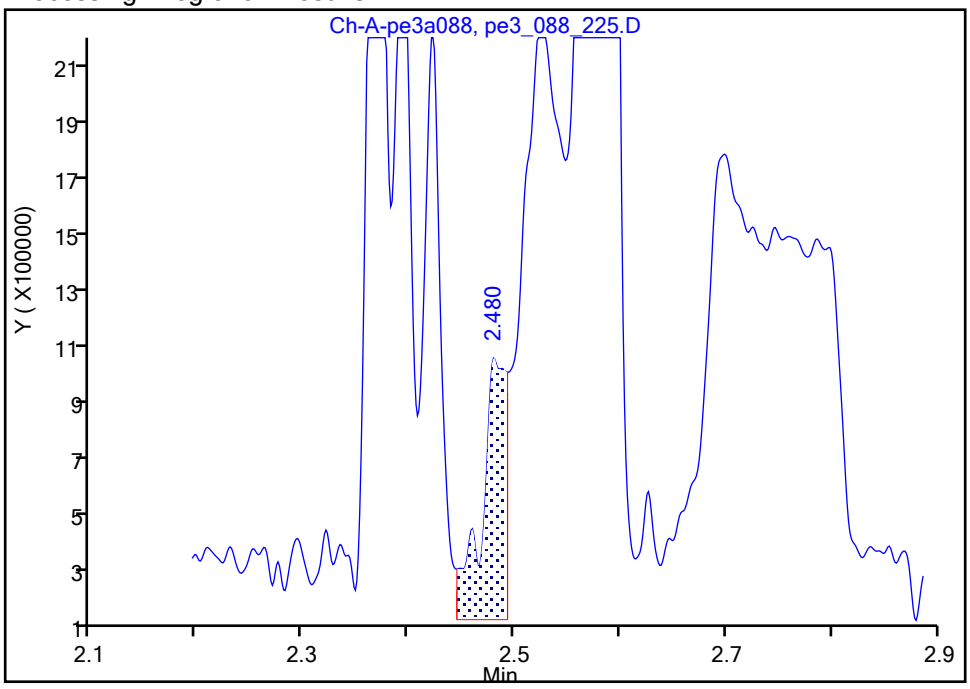
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_225.D
Injection Date: 04-Oct-2023 07:23:03 Instrument ID: PE-03
Lims ID: ccv
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: rsk175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.00 mm) Detector Ch-A-21a09074

3 Ethylene, CAS: 74-85-1

Signal: 1

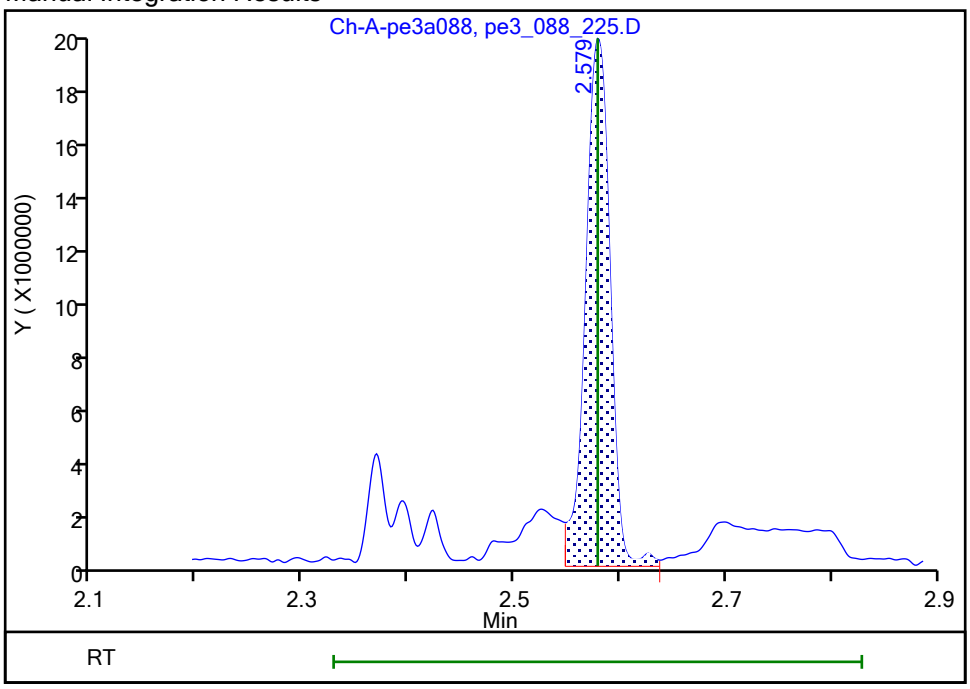
Processing Integration Results

RT: 2.48
Area: 1382223
Amount: 1.076703
Amount Units: ug/l



Manual Integration Results

RT: 2.58
Area: 30833825
Amount: 73.174123
Amount Units: ug/l



Reviewer: RH3X, 04-Oct-2023 07:45:07 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-686019/19 Calibration Date: 10/04/2023 12:43

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_242.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		502317		40.5	39.0	3.9	15.0
Ethane	Lin1		497274		77.4	73.1	6.0	15.0
Ethene	Lin1		433848		70.0	68.0	2.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: CCV 480-686019/19 Calibration Date: 10/04/2023 12:43

Instrument ID: PE-03 Calib Start Date: 03/07/2023 12:27

GC Column: Alumina ID: 0.53(mm) Calib End Date: 03/07/2023 14:58

Lab File ID: pe3_088_242.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.52	1.27	1.77
Ethane	1.91	1.65	2.15
Ethene	2.62	2.33	2.83

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_242.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 04-Oct-2023 12:43:41 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03
Sublist: chrom-rsk175*sub6

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:58 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

First Level Reviewer: RH3X Date: 05-Oct-2023 06:28:37

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.523	1.519	0.004	19600997	39.0	40.5	
2	1.536	1.535	0.001	13971200	39.0	39.2	
2 Ethane							
1	1.905	1.896	0.009	36339016	73.1	77.4	
2	2.172	2.171	0.001	32660912	73.1	72.0	
3 Ethylene							a
1	2.620	2.579	0.041	29516944	68.0	70.0	a
2	2.044	2.043	0.001	22786966	68.0	71.8	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

_RSK_STK_00028 Amount Added: 100.00 Units: uL

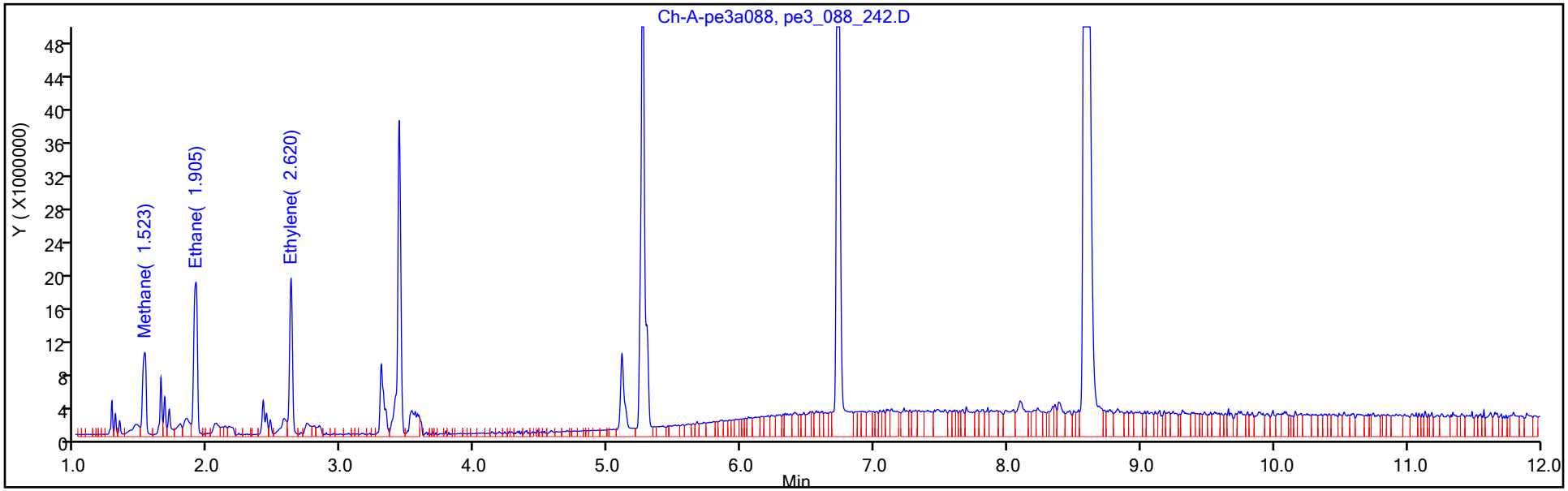
Report Date: 05-Oct-2023 06:29:58 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

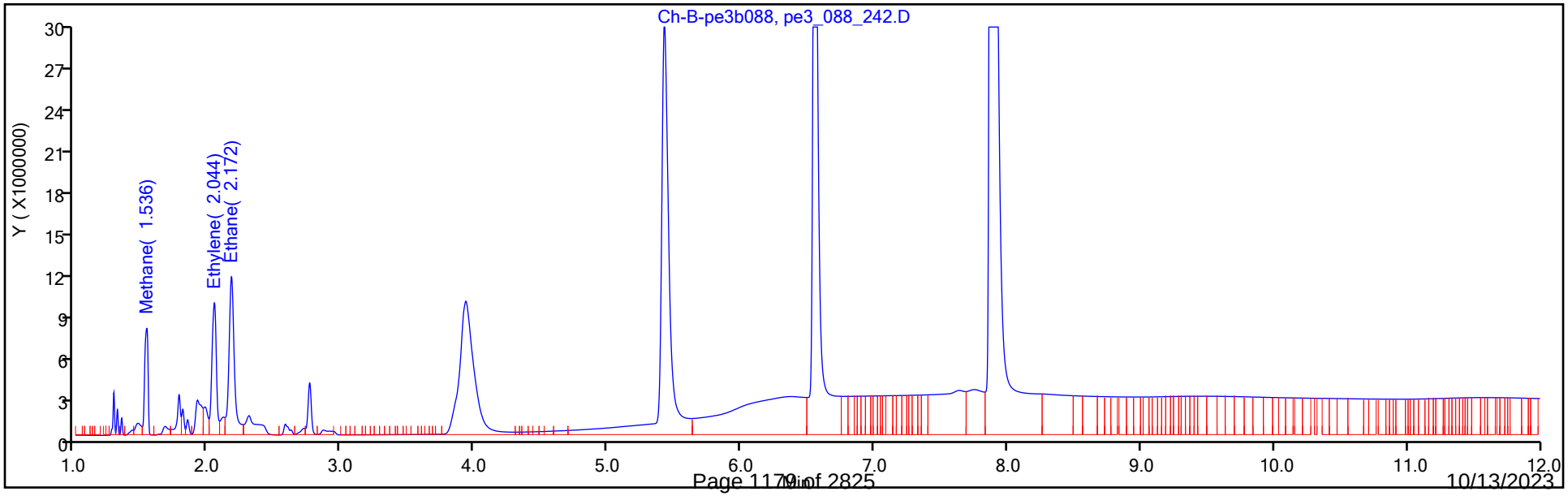
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_242.D

Injection Date:	04-Oct-2023 12:43:41	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	ccv			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins Buffalo

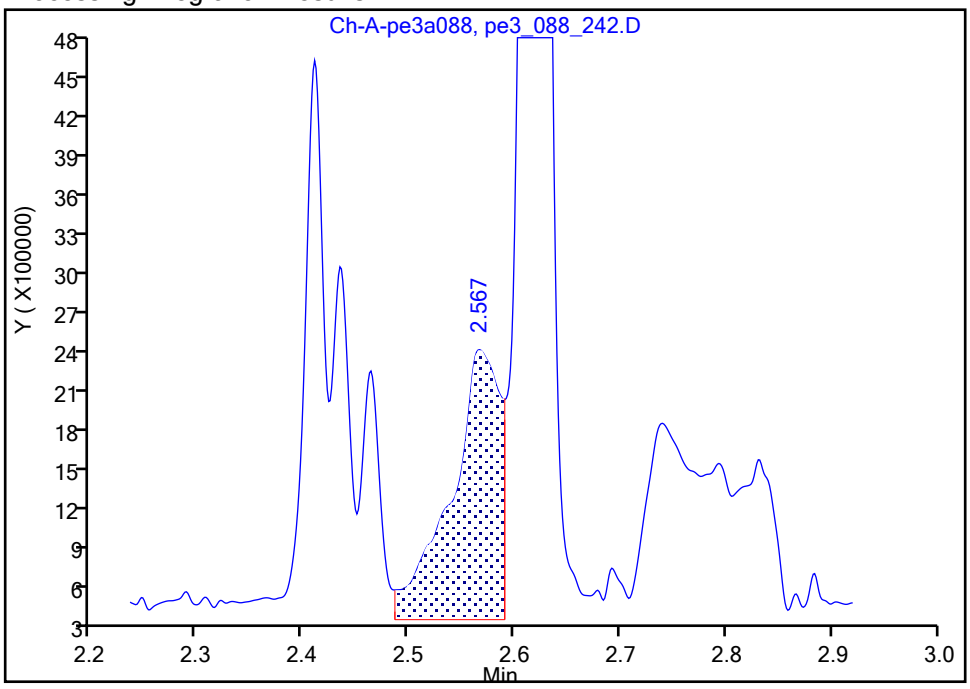
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_242.D
Injection Date: 04-Oct-2023 12:43:41 Instrument ID: PE-03
Lims ID: ccv
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: rsk175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.00 mm) Detector Ch-A-21a09074

3 Ethylene, CAS: 74-85-1

Signal: 1

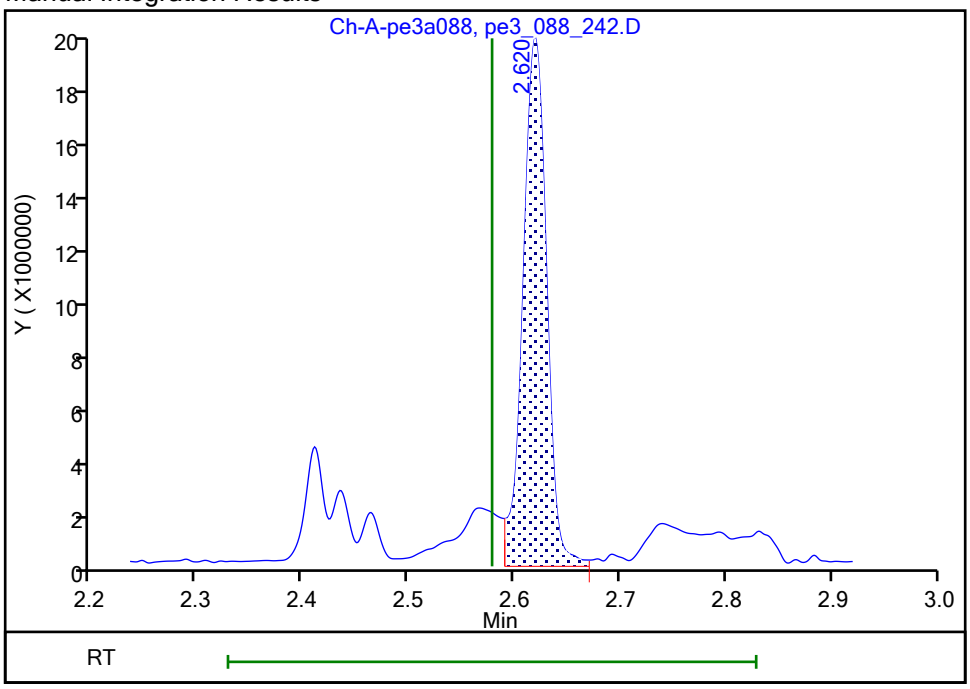
Processing Integration Results

RT: 2.57
Area: 6669983
Amount: 14.021122
Amount Units: ug/l



Manual Integration Results

RT: 2.62
Area: 29516944
Amount: 69.950403
Amount Units: ug/l



Reviewer: RH3X, 05-Oct-2023 06:28:29 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685202/3

Matrix: Water | Lab File ID: pe3_088_146.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 09/27/2023 10:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685202 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_146.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 27-Sep-2023 10:51:00 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 28-Sep-2023 09:02:41 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1680

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	327404		-0.8481	
2	1.536	1.536	0.000	230531		0.6473	
2 Ethane							
1	1.889	1.900	-0.011	45010		-3.38	
2	2.159	2.172	-0.013	39774		0.0877	
3 Ethylene							
1	2.599	2.589	0.010	30347		-2.23	
2	2.065	2.044	0.021	8923		0.0281	

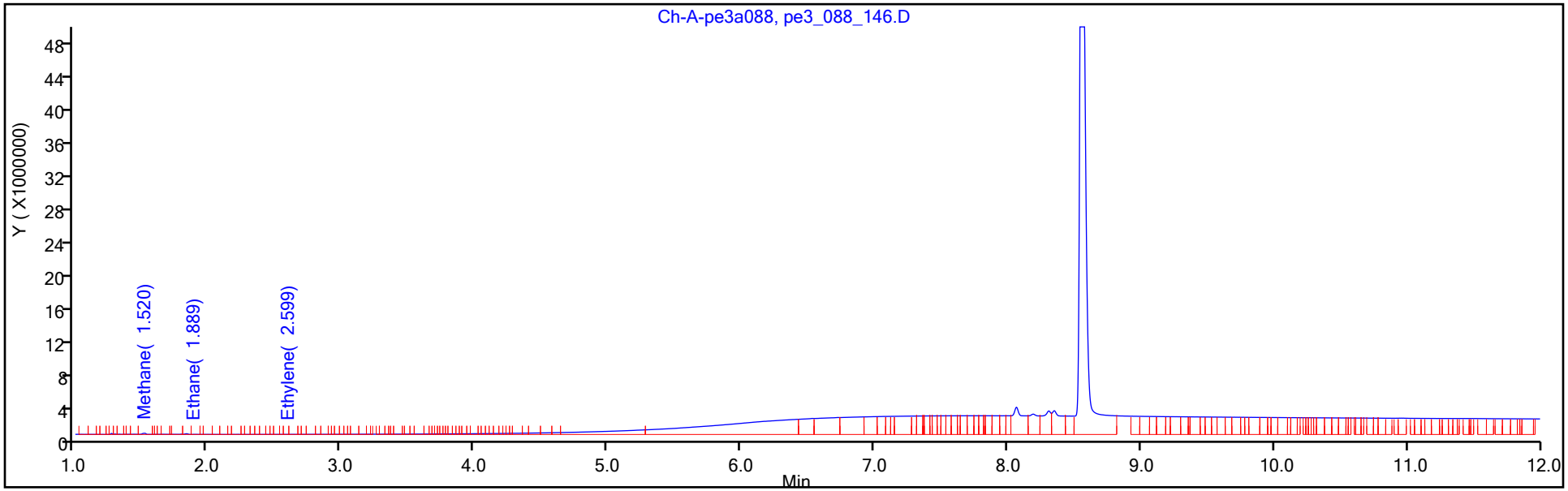
Report Date: 28-Sep-2023 09:02:42 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

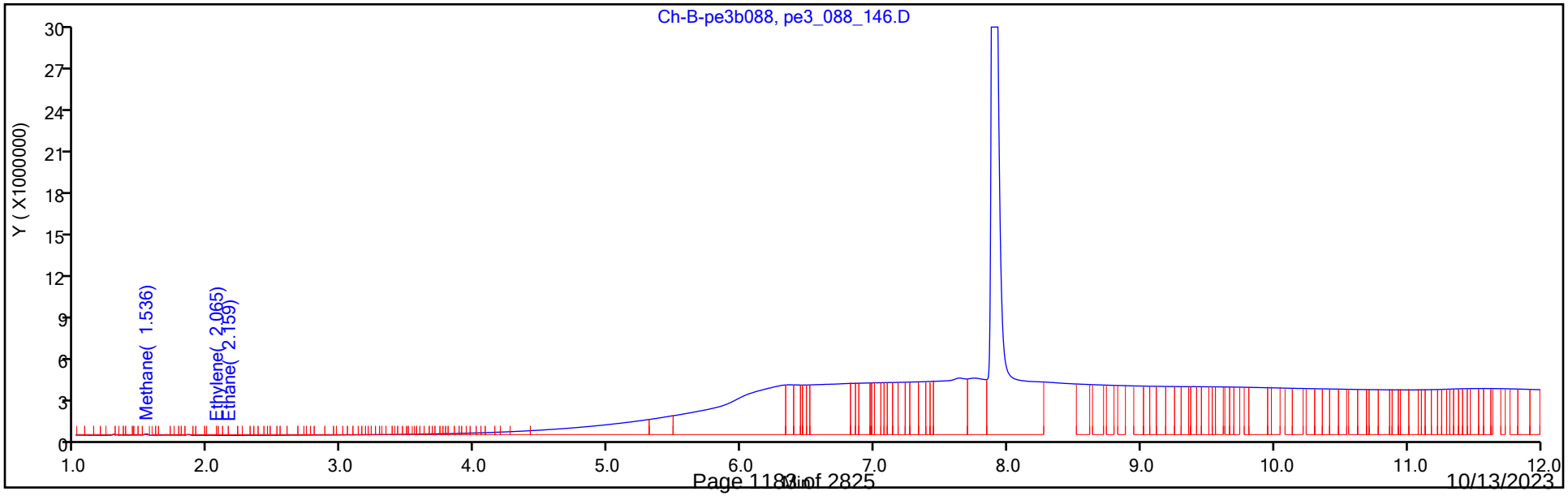
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_146.D

Injection Date:	27-Sep-2023 10:51:00	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	mb			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685350/3

Matrix: Water | Lab File ID: pe3_088_163.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 10:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_163.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 28-Sep-2023 10:02:35 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:35 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

First Level Reviewer: RH3X Date: 28-Sep-2023 11:08:43

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.521	0.000	276663		-0.9571	
2	1.536	1.537	-0.001	231730		0.6506	
2 Ethane							
1	1.899	1.903	-0.004	44503		-3.38	
2	2.149	2.172	-0.023	43510		0.0959	
3 Ethylene							
1	2.605	2.597	0.008	24860		-2.25	
2	2.041	2.044	-0.003	39831		0.1254	

QC Flag Legend
Processing Flags

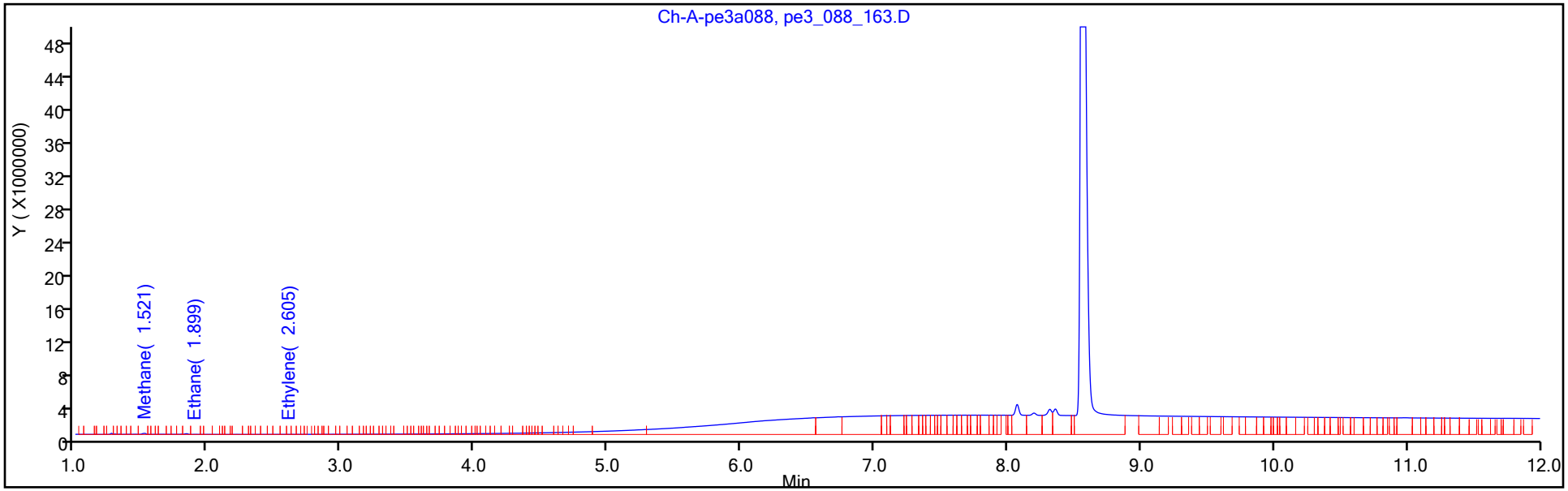
Report Date: 29-Sep-2023 06:30:36 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

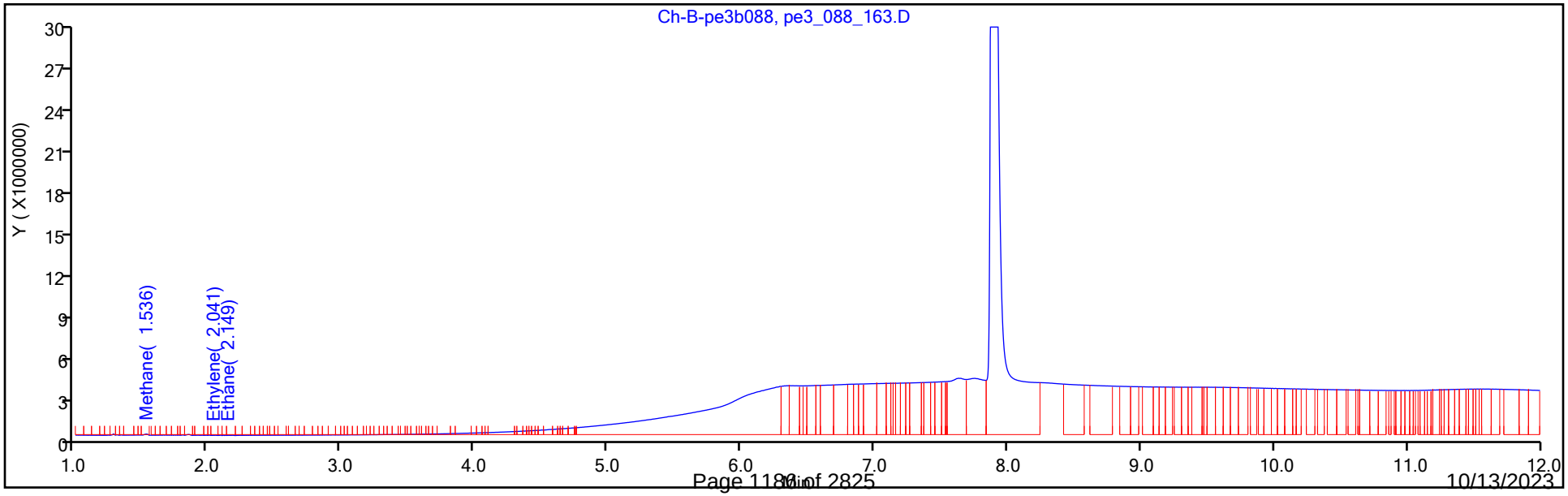
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_163.D

Injection Date:	28-Sep-2023 10:02:35	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	mb			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-685513/3

Matrix: Water | Lab File ID: pe3_088_183.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 07:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_183.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 29-Sep-2023 07:46:10 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 12:45:14 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.523	1.521	0.002	373344		-0.7495	
2	1.535	1.537	-0.002	403922		1.13	
2 Ethane							
1	1.901	1.903	-0.002	54297		-3.35	
2	2.148	2.172	-0.024	76819		0.1694	
3 Ethylene							
1	2.593	2.597	-0.004	31512		-2.23	
2	2.065	2.044	0.021	49124		0.1547	

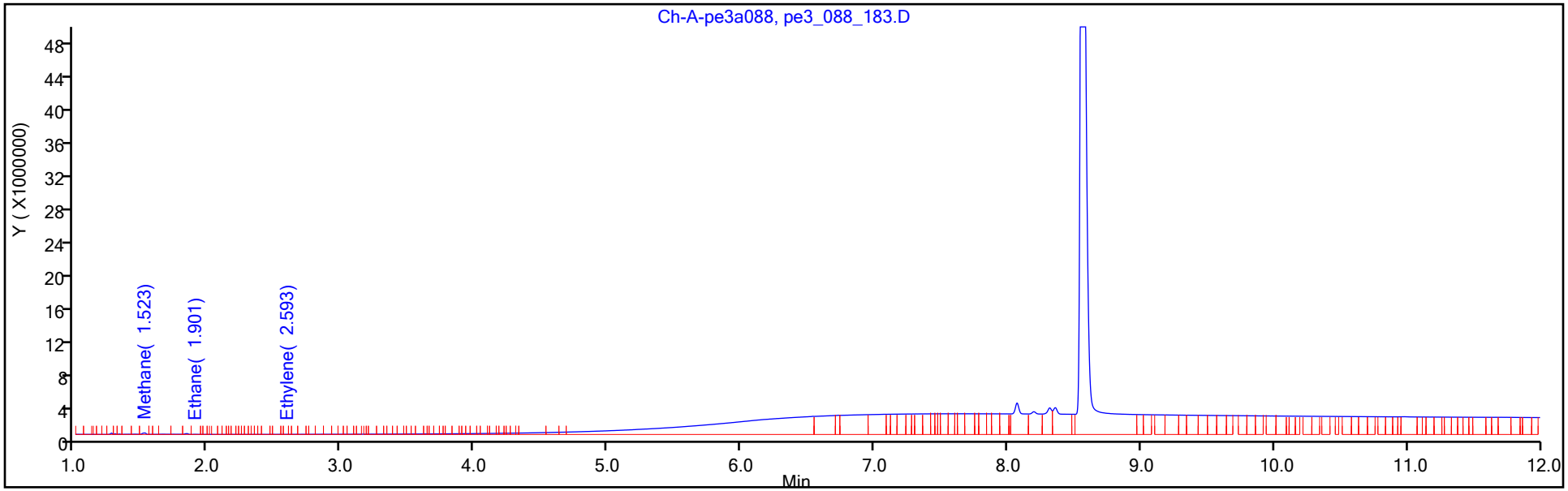
Report Date: 29-Sep-2023 12:45:15 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

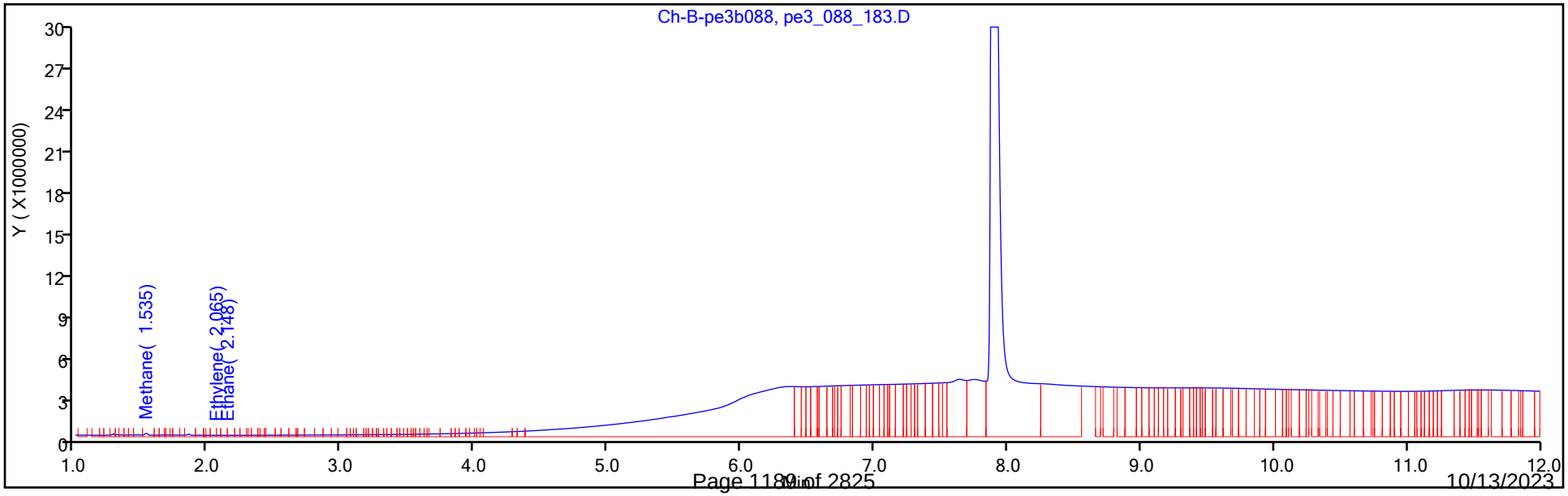
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_183.D

Injection Date:	29-Sep-2023 07:46:10	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	mb			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: MB 480-686019/3

Matrix: Water | Lab File ID: pe3_088_226.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 07:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	7.5	U	7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_226.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 04-Oct-2023 07:41:55 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.509	1.519	-0.010	964149		0.5191	
2	1.536	1.535	0.001	282983		0.7945	
2 Ethane							
1	1.897	1.896	0.001	996482		-1.26	
2	2.176	2.171	0.005	58081		0.1281	
3 Ethylene							
1	2.577	2.579	-0.002	935207		-0.0176	
2	2.047	2.043	0.004	76200		0.2399	

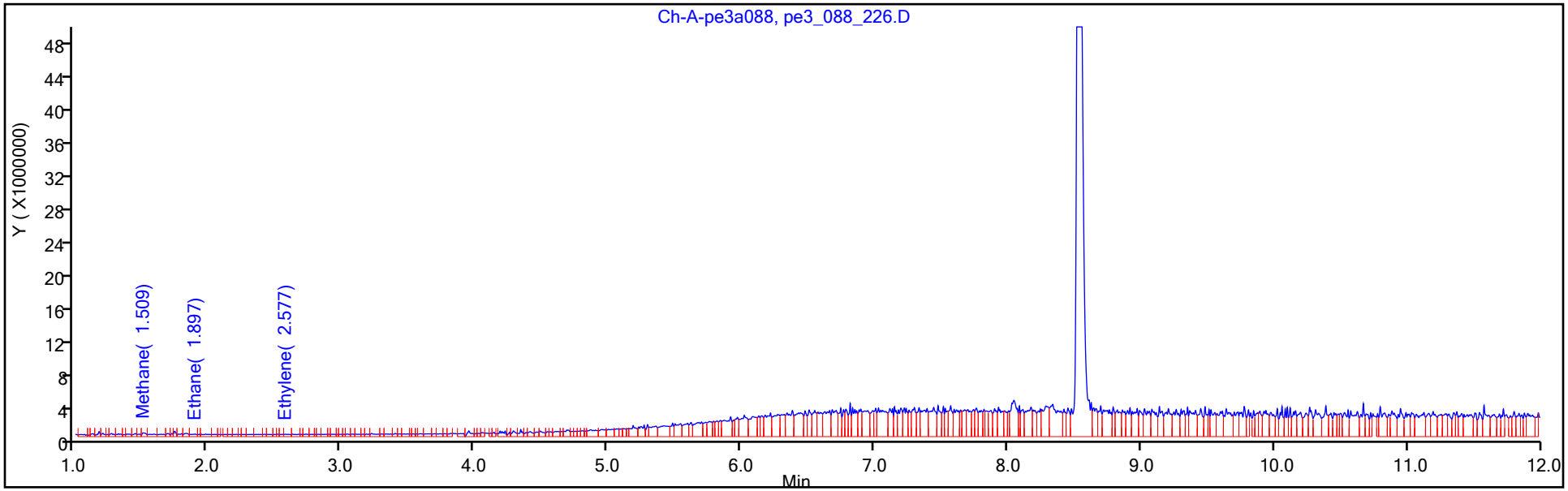
Report Date: 05-Oct-2023 06:29:42 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

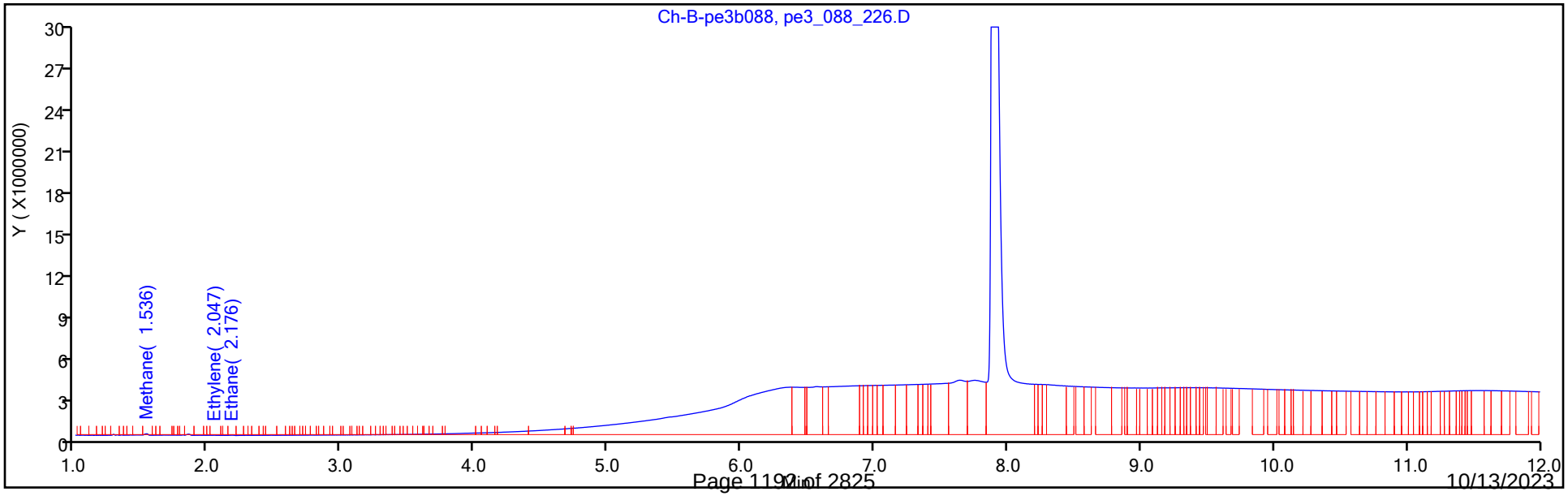
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_226.D

Injection Date:	04-Oct-2023 07:41:55	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	mb			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685202/4

Matrix: Water | Lab File ID: pe3_088_147.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 09/27/2023 11:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685202 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	41.6		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_147.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 27-Sep-2023 11:09:52 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 28-Sep-2023 09:02:41 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1680

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	10785982	19.5	21.6	
2	1.536	1.536	0.000	7855249	19.5	22.1	
2 Ethane							
1	1.900	1.900	0.000	20225863	36.5	41.6	
2	2.172	2.172	0.000	19446810	36.5	42.9	
3 Ethylene							
1	2.591	2.589	0.002	16569313	34.0	38.3	
2	2.044	2.044	0.000	12625109	34.0	39.8	

Reagents:

_RSK_STK_00028 Amount Added: 50.00 Units: uL

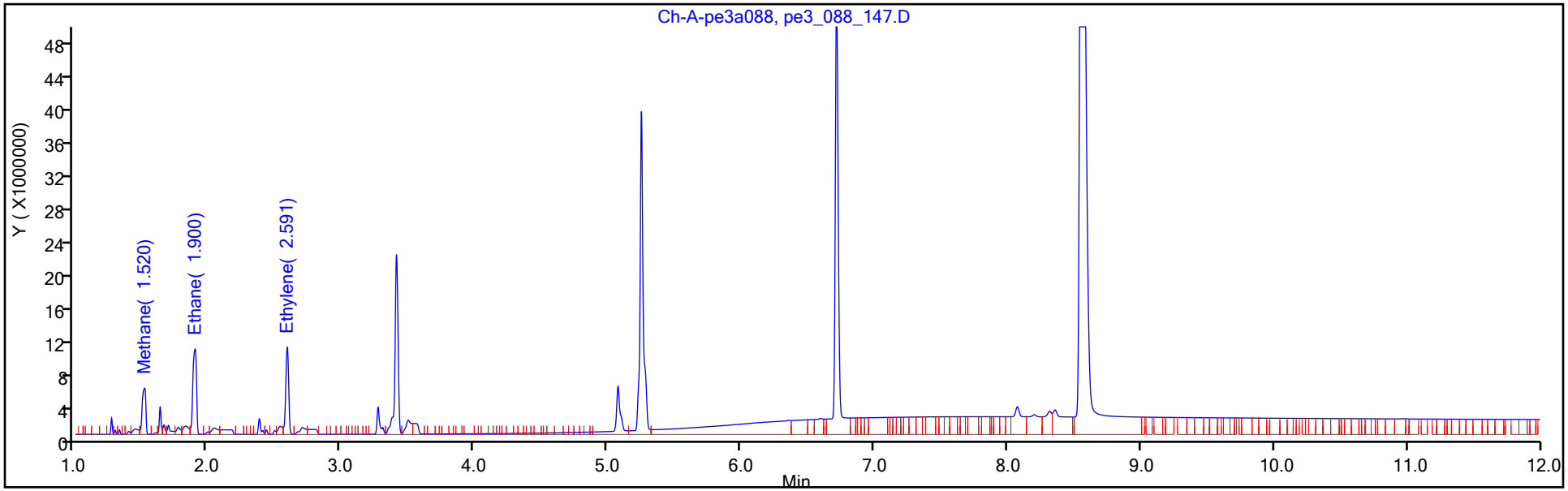
Report Date: 28-Sep-2023 09:02:43 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

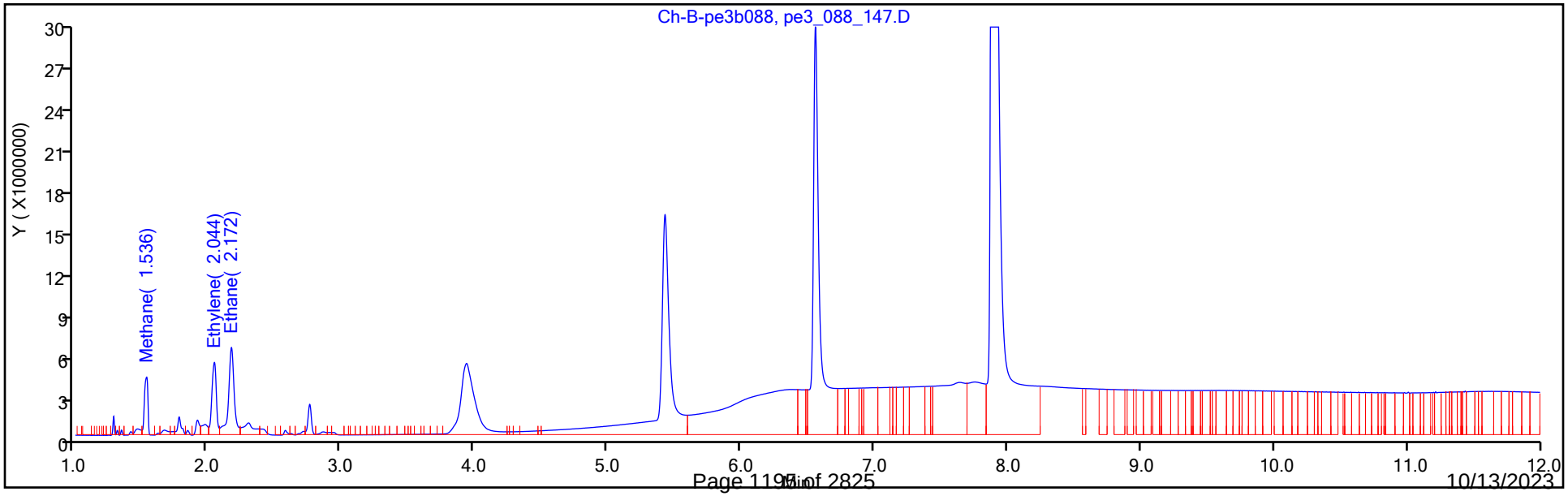
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_147.D

Injection Date:	27-Sep-2023 11:09:52	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	lcs			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685350/4

Matrix: Water | Lab File ID: pe3_088_164.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	36.6		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_164.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 28-Sep-2023 10:21:28 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:35 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.521	0.000	9544251	19.5	18.9	
2	1.536	1.537	-0.001	6965133	19.5	19.6	
2 Ethane							
1	1.903	1.903	0.000	17983773	36.5	36.6	
2	2.173	2.172	0.001	17573867	36.5	38.7	
3 Ethylene							
1	2.601	2.597	0.004	14481598	34.0	33.1	
2	2.045	2.044	0.001	11202723	34.0	35.3	

Reagents:

_RSK_STK_00028 Amount Added: 50.00 Units: uL

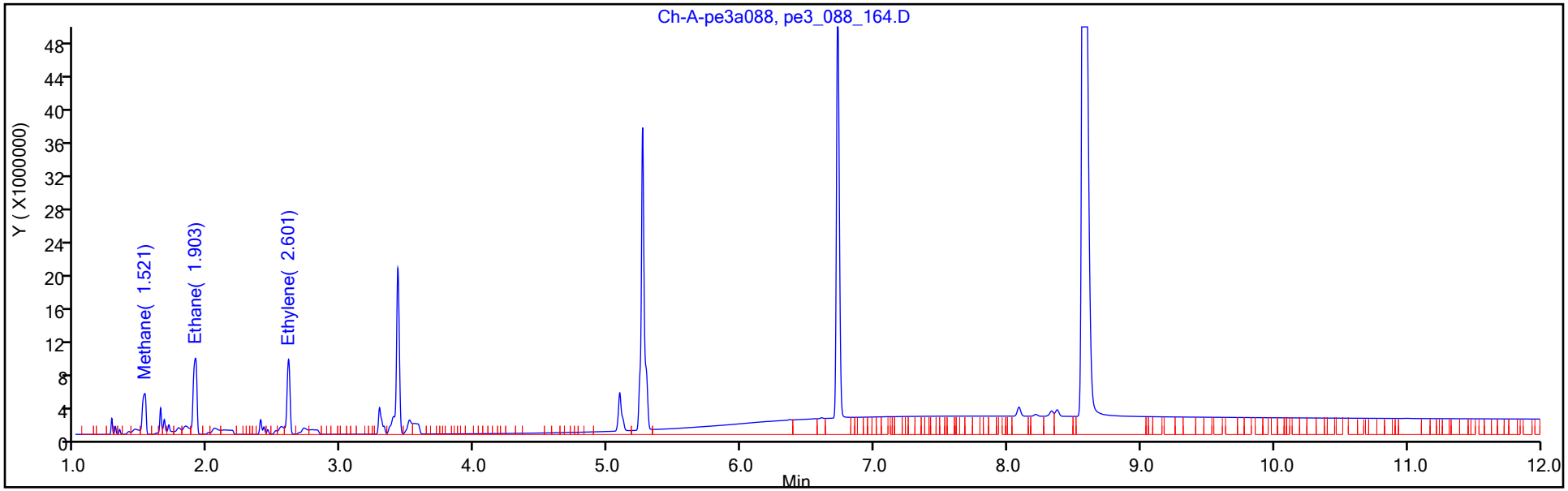
Report Date: 29-Sep-2023 06:30:36 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

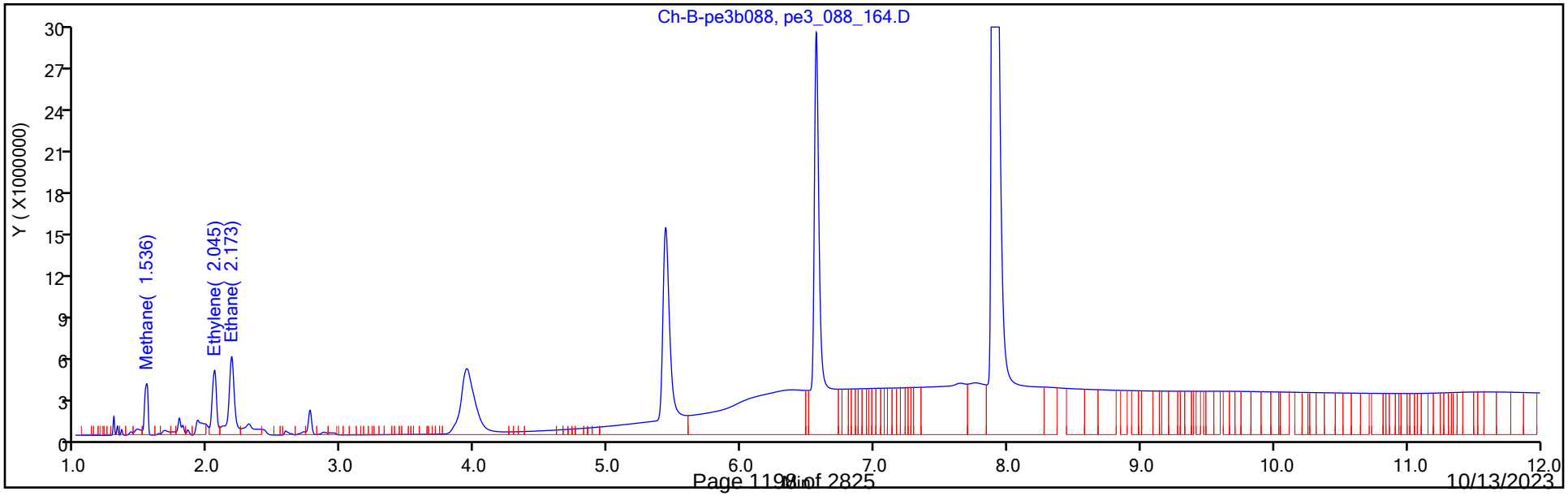
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_164.D

Injection Date:	28-Sep-2023 10:21:28	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	lcs			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-685513/4

Matrix: Water | Lab File ID: pe3_088_184.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 08:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	40.4		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_184.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 29-Sep-2023 08:05:01 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 12:45:14 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

First Level Reviewer: RH3X Date: 29-Sep-2023 08:43:44

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.521	0.000	10620945	19.5	21.3	
2	1.537	1.537	0.000	7757393	19.5	21.8	
2 Ethane							M
1	1.901	1.903	-0.002	19692165	36.5	40.4	
2	2.172	2.172	0.000	18791973	36.5	41.4	M
3 Ethylene							
1	2.593	2.597	-0.004	15807341	34.0	36.4	
2	2.045	2.044	0.001	12903281	34.0	40.6	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

_RSK_STK_00028 Amount Added: 50.00 Units: uL

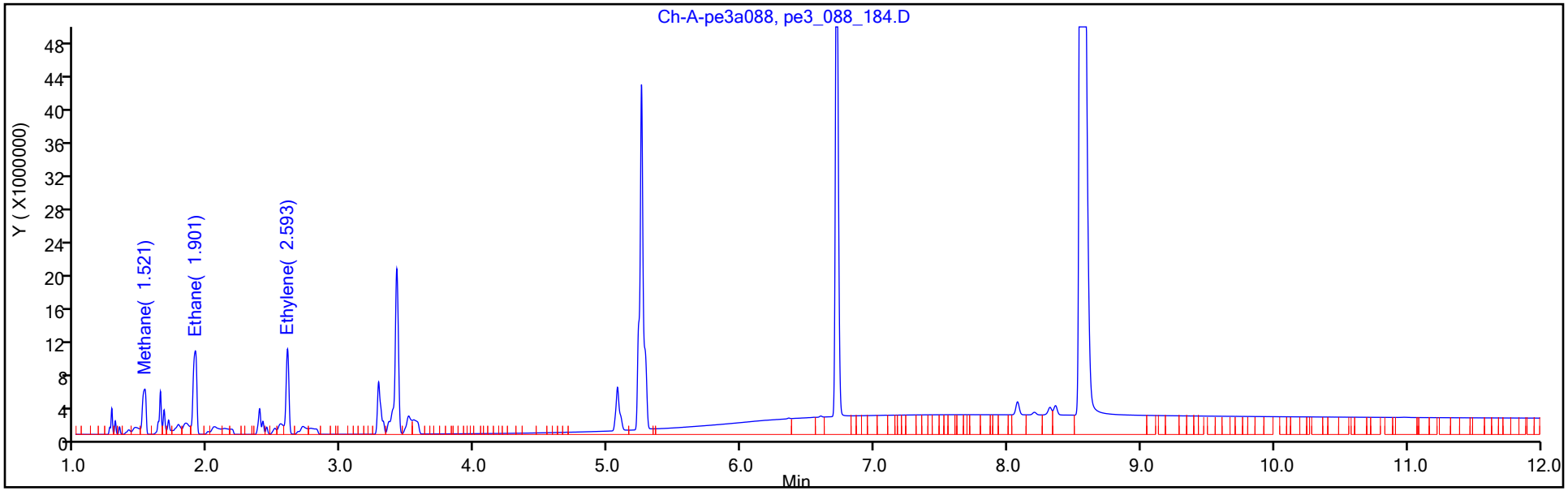
Report Date: 29-Sep-2023 12:45:17 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

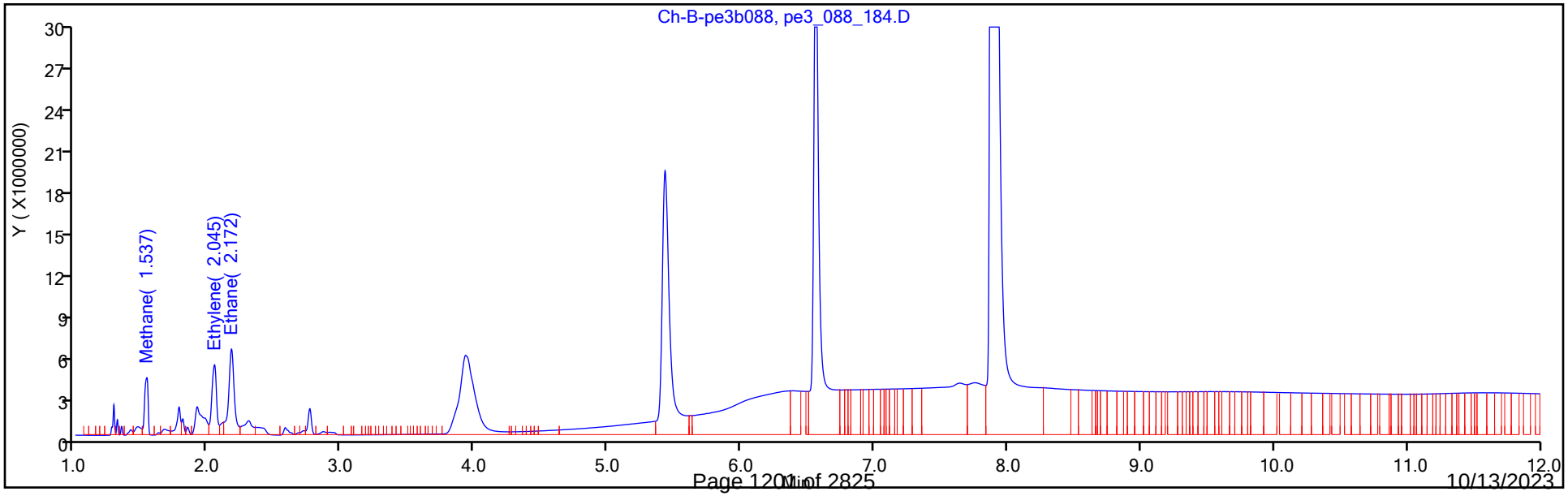
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_184.D

Injection Date:	29-Sep-2023 08:05:01	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	lcs			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCS 480-686019/4

Matrix: Water | Lab File ID: pe3_088_227.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 08:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	40.4		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_227.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 04-Oct-2023 08:00:47 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

First Level Reviewer: RH3X Date: 04-Oct-2023 08:35:53

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.523	1.519	0.004	10948003	19.5	22.0	
2	1.536	1.535	0.001	7320471	19.5	20.6	
2 Ethane							
1	1.899	1.896	0.003	19700829	36.5	40.4	
2	2.173	2.171	0.002	16880854	36.5	37.2	
3 Ethylene							
1	2.584	2.579	0.005	15866086	34.0	36.5	
2	2.045	2.043	0.002	11613889	34.0	36.6	

QC Flag Legend
Processing Flags

Reagents:
_RSK_STK_00028 Amount Added: 50.00 Units: uL

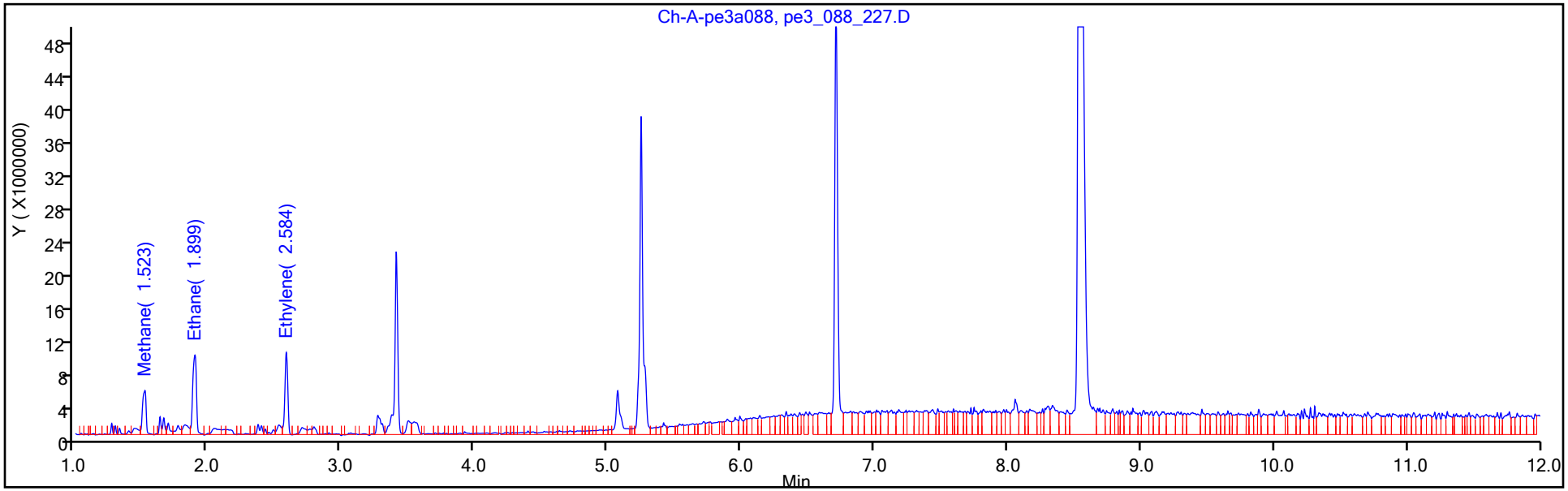
Report Date: 05-Oct-2023 06:29:43 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

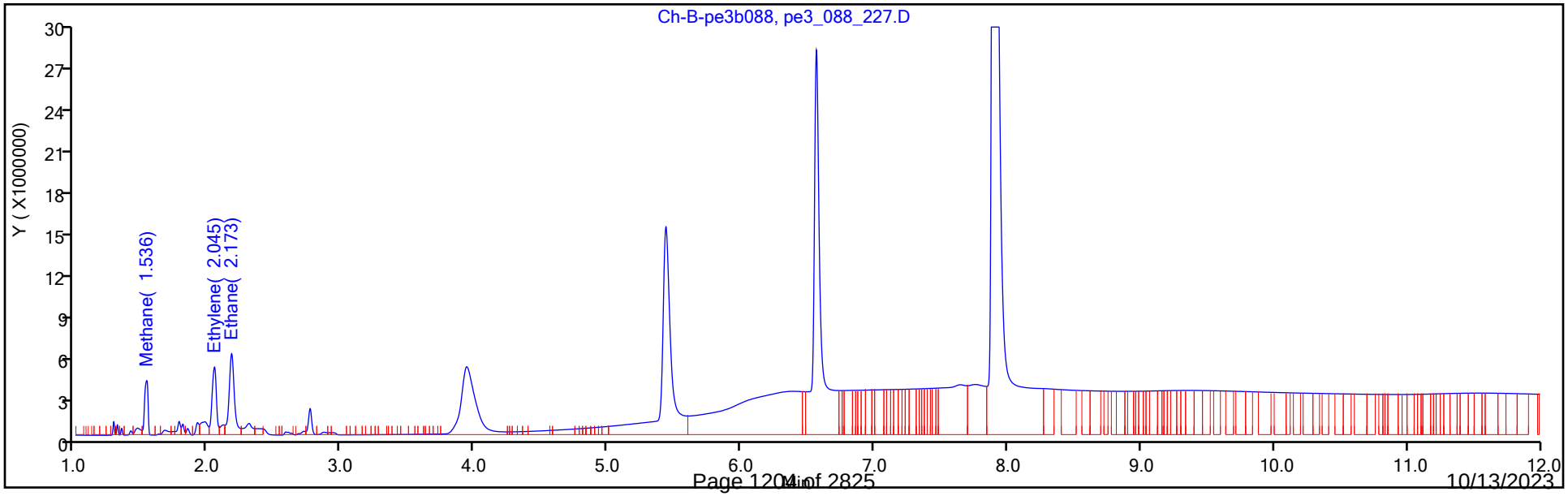
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_227.D

Injection Date:	04-Oct-2023 08:00:47	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	lcs			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCSD 480-685350/5

Matrix: Water | Lab File ID: pe3_088_165.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 10:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	37.1		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_165.D
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 28-Sep-2023 10:40:20 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:35 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

First Level Reviewer: RH3X Date: 28-Sep-2023 11:18:29

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	9752217	19.5	19.4	
2	1.536	1.537	-0.001	7086121	19.5	19.9	
2 Ethane							
1	1.901	1.903	-0.002	18227816	36.5	37.1	
2	2.173	2.172	0.001	17738588	36.5	39.1	
3 Ethylene							
1	2.600	2.597	0.003	14576288	34.0	33.4	
2	2.044	2.044	0.000	11331294	34.0	35.7	

QC Flag Legend
Processing Flags

Reagents:
_RSK_STK_00028 Amount Added: 50.00 Units: uL

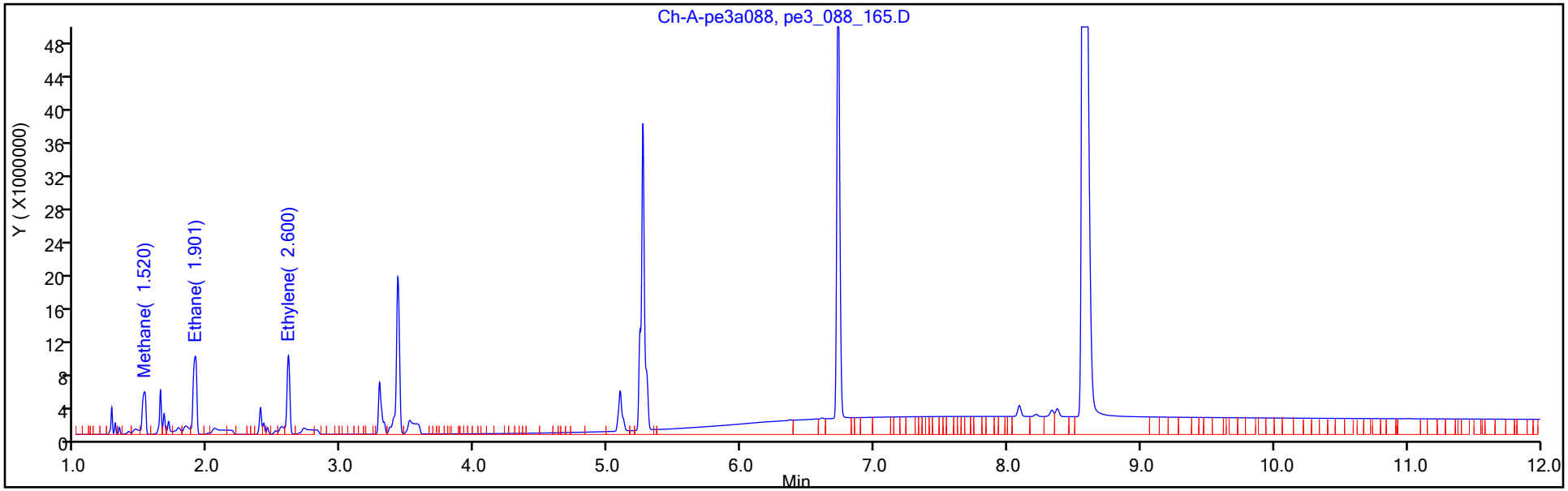
Report Date: 29-Sep-2023 06:30:37 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

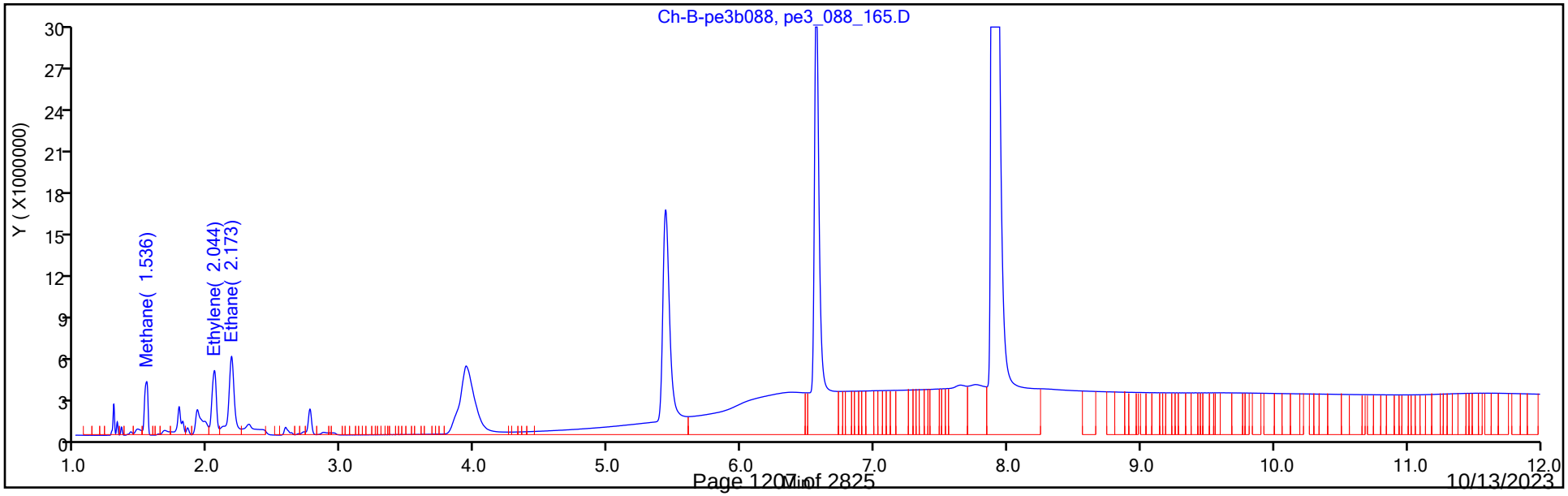
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_165.D

Injection Date:	28-Sep-2023 10:40:20	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	lcsd			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCSD 480-685513/5

Matrix: Water | Lab File ID: pe3_088_185.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 09/29/2023 08:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685513 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	33.9		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_185.D
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 29-Sep-2023 08:23:54 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 12:45:14 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

First Level Reviewer: RH3X Date: 29-Sep-2023 08:57:04

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	9082848	19.5	18.0	
2	1.536	1.537	-0.001	6627630	19.5	18.6	
2 Ethane							
1	1.900	1.903	-0.003	16802488	36.5	33.9	
2	2.173	2.172	0.001	14723158	36.5	32.5	
3 Ethylene							
1	2.593	2.597	-0.004	13670279	34.0	31.2	
2	2.044	2.044	0.000	10621512	34.0	33.4	

QC Flag Legend
Processing Flags

Reagents:
_RSK_STK_00028 Amount Added: 50.00 Units: uL

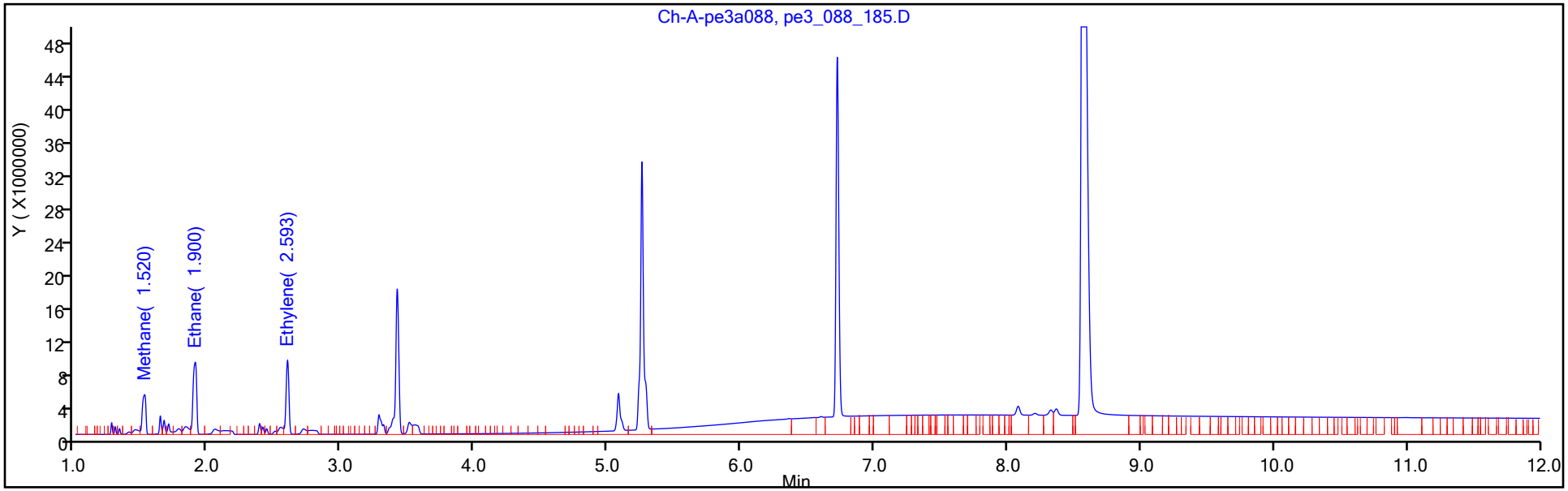
Report Date: 29-Sep-2023 12:45:18 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

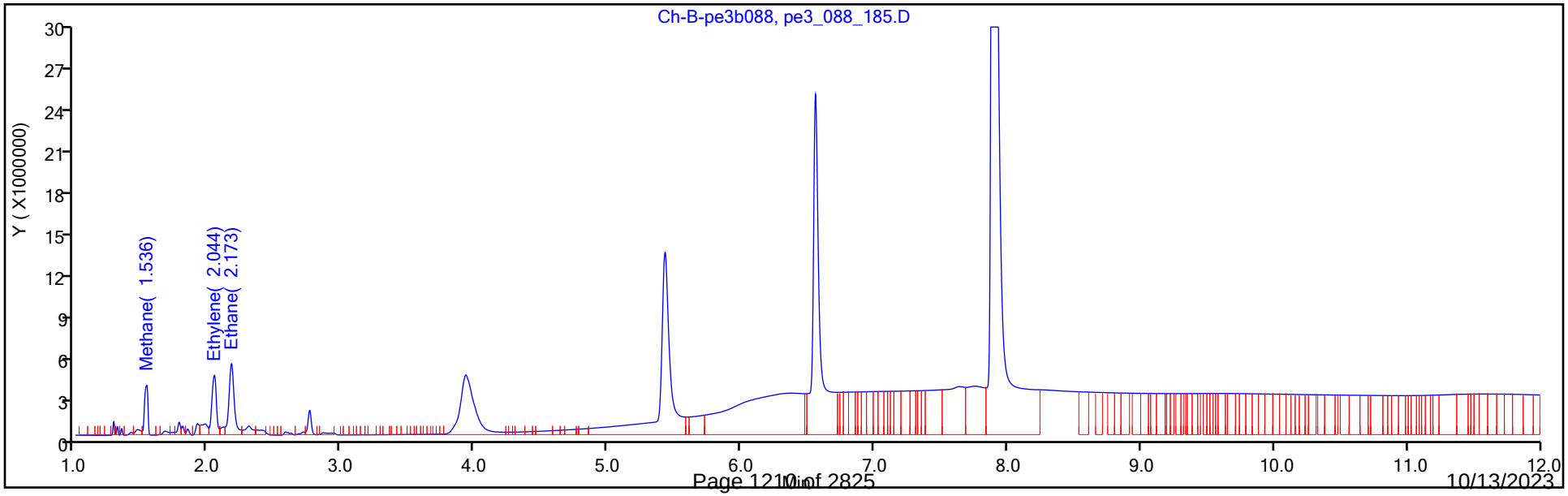
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230929-114035.b\pe3_088_185.D

Injection Date:	29-Sep-2023 08:23:54	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	lcsd			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: | Lab Sample ID: LCSD 480-686019/5

Matrix: Water | Lab File ID: pe3_088_228.D

Analysis Method: RSK-175 | Date Collected:

Sample wt/vol: 17(mL) | Date Analyzed: 10/04/2023 08:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 686019 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	38.0		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_228.D
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 04-Oct-2023 08:19:38 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 05-Oct-2023 06:29:40 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1662

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.521	1.519	0.002	10582490	19.5	21.2	
2	1.537	1.535	0.002	6783695	19.5	19.0	
2 Ethane							
1	1.897	1.896	0.001	18628948	36.5	38.0	
2	2.172	2.171	0.001	17354519	36.5	38.3	
3 Ethylene							
1	2.584	2.579	0.005	14980635	34.0	34.4	
2	2.045	2.043	0.002	11188951	34.0	35.2	

Reagents:

_RSK_STK_00028 Amount Added: 50.00 Units: uL

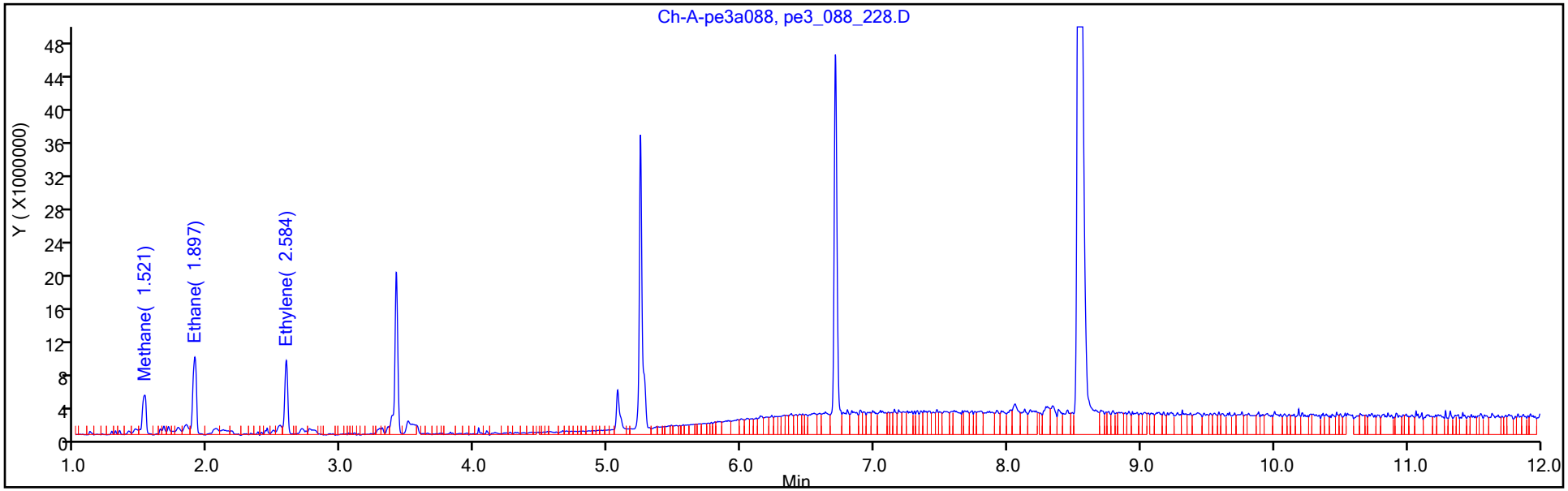
Report Date: 05-Oct-2023 06:29:43 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

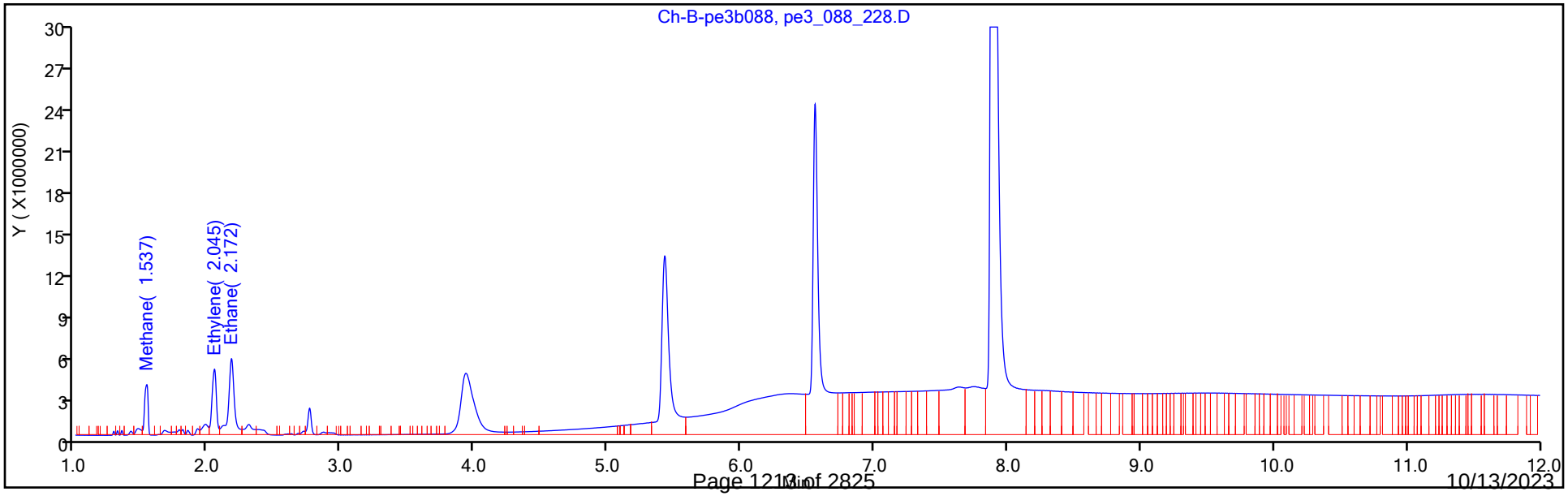
Data File: \\chromfs\Buffalo\ChromData\PE-03\20231004-114108.b\pe3_088_228.D

Injection Date:	04-Oct-2023 08:19:38	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	lcsd			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023-MS MS | Lab Sample ID: 480-213061-2 MS

Matrix: Water | Lab File ID: pe3_088_152.D

Analysis Method: RSK-175 | Date Collected: 09/25/2023 13:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/27/2023 12:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685202 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	37.8		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_152.D
Lims ID: 480-213061-F-2 MS
Client ID: SW-B-09252023-MS
Sample Type: MS
Inject. Date: 27-Sep-2023 12:46:55 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 28-Sep-2023 09:02:41 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1680

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	12354648	19.5	25.0	
2	1.535	1.536	-0.001	8994418	19.5	25.3	
2 Ethane							
1	1.900	1.900	0.000	18541702	36.5	37.8	
2	2.171	2.172	-0.001	15964605	36.5	35.2	
3 Ethylene							
1	2.597	2.589	0.008	14890062	34.0	34.1	
2	2.044	2.044	0.000	11864916	34.0	37.4	

Reagents:

_RSK_STK_00028 Amount Added: 50.00 Units: uL

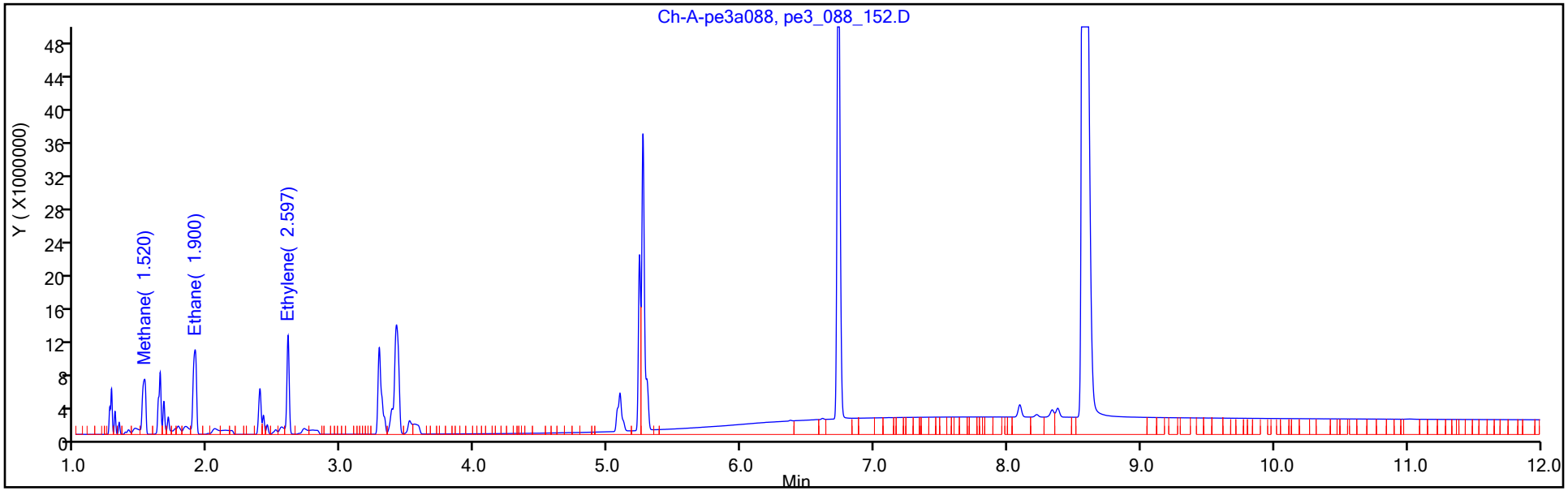
Report Date: 28-Sep-2023 09:02:48 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

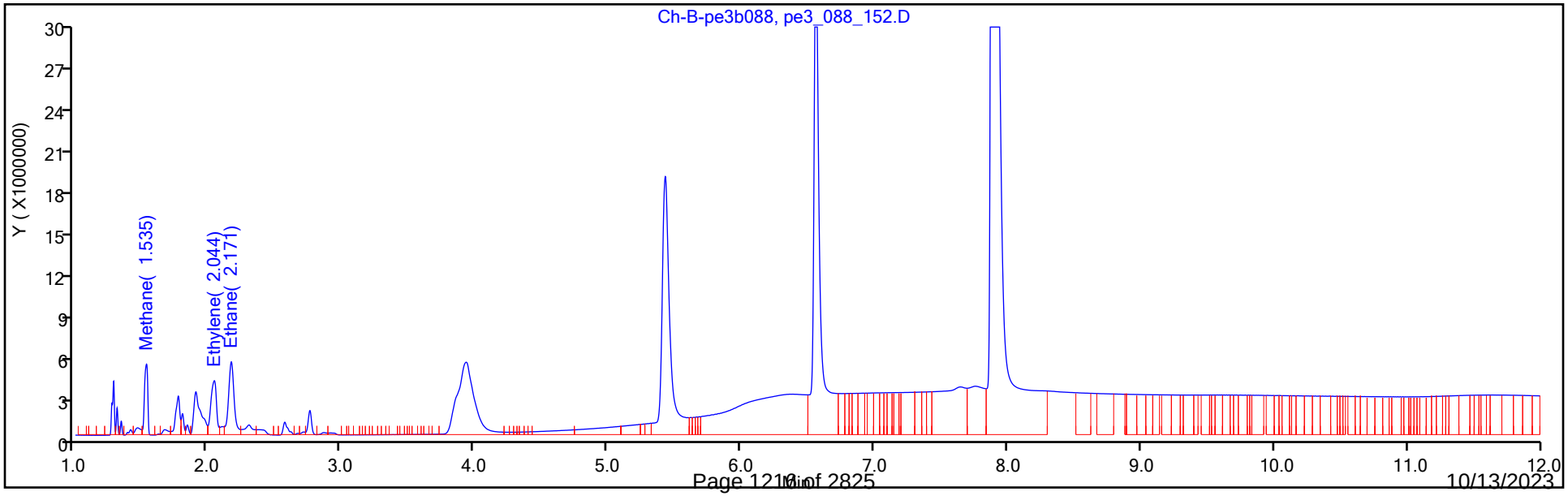
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_152.D

Injection Date:	27-Sep-2023 12:46:55	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213061-F-2 MS			Worklist Smp#:	9
Client ID:	SW-B-09252023-MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023-MS MS | Lab Sample ID: 480-213117-5 MS

Matrix: Water | Lab File ID: pe3_088_178.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 13:25

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 14:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	34.2		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_178.D
Lims ID: 480-213117-D-5 MS
Client ID: GW-10S-09262023-MS
Sample Type: MS
Inject. Date: 28-Sep-2023 14:45:31 ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	124905589	19.5	266.6	
2	1.532	1.537	-0.005	100216420	19.5	281.4	
2 Ethane							
1	1.899	1.903	-0.004	16910791	36.5	34.2	
2	2.168	2.172	-0.004	15461514	36.5	34.1	
3 Ethylene							
1	2.584	2.597	-0.013	14812560	34.0	34.0	
2	2.047	2.044	0.003	10829965	34.0	34.1	

Reagents:

_RSK_STK_00028 Amount Added: 50.00 Units: uL

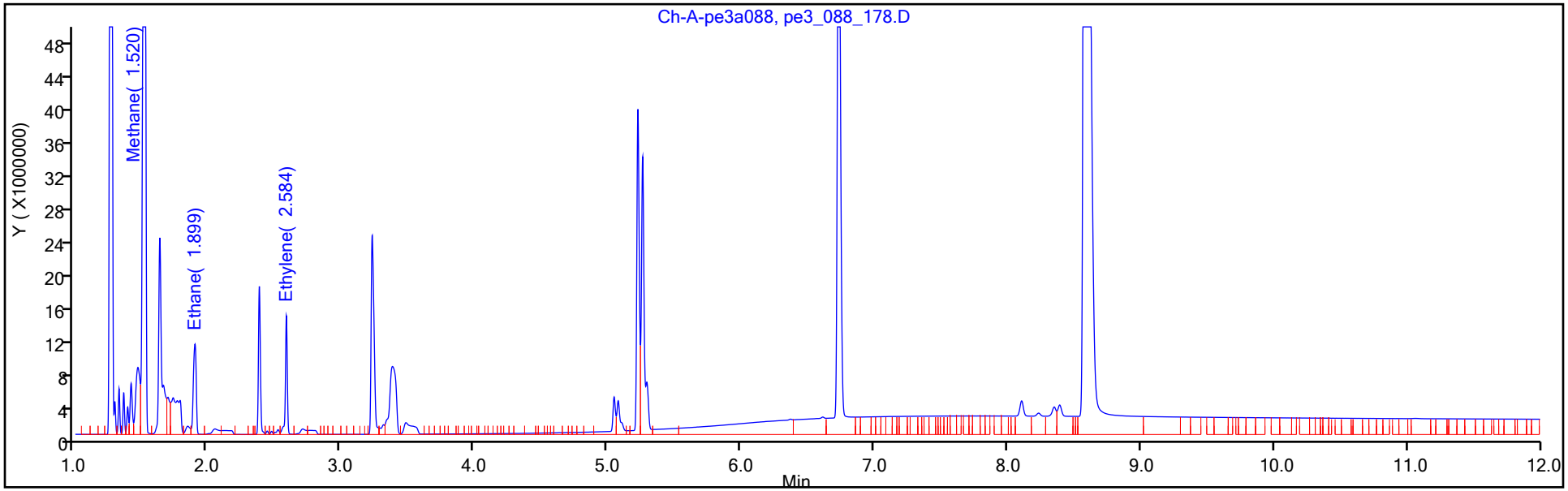
Report Date: 29-Sep-2023 06:30:32 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

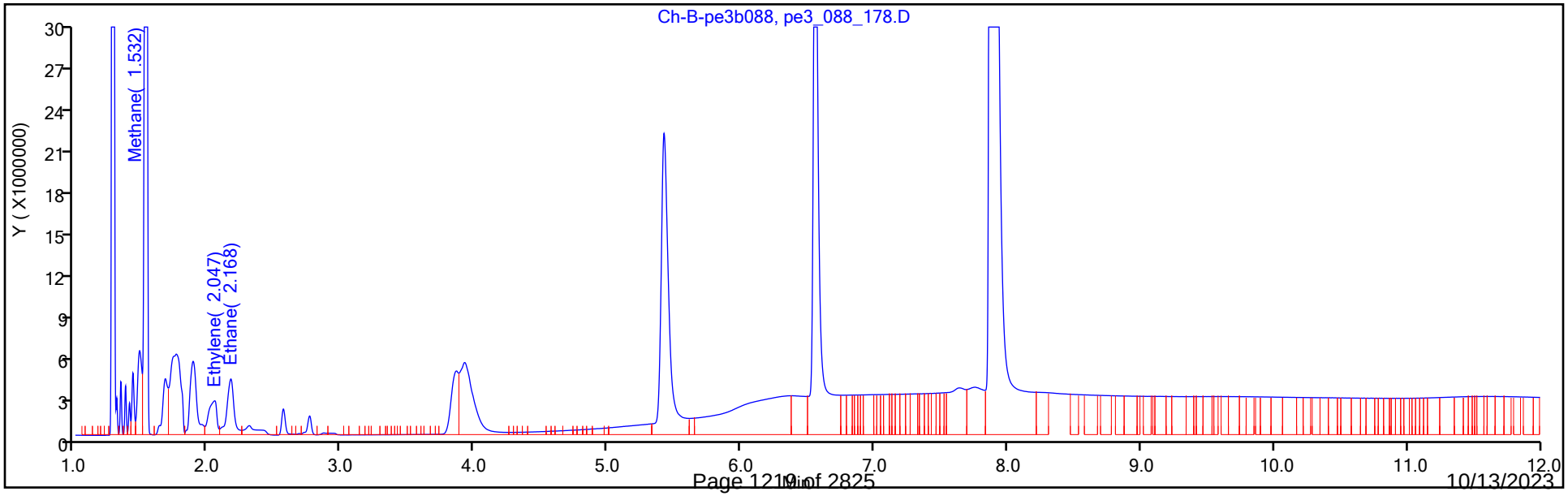
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_178.D

Injection Date:	28-Sep-2023 14:45:31	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-5 MS			Worklist Smp#:	18
Client ID:	GW-10S-09262023-MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



10/13/2023
10:08 AM

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: SW-B-09252023-MSD MSD | Lab Sample ID: 480-213061-2 MSD

Matrix: Water | Lab File ID: pe3_088_153.D

Analysis Method: RSK-175 | Date Collected: 09/25/2023 13:00

Sample wt/vol: 17(mL) | Date Analyzed: 09/27/2023 13:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685202 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	36.7		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_153.D
Lims ID: 480-213061-F-2 MSD
Client ID: SW-B-09252023-MSD
Sample Type: MSD
Inject. Date: 27-Sep-2023 13:05:47 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 28-Sep-2023 09:02:41 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1680

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	11903001	19.5	24.0	
2	1.536	1.536	0.000	8634378	19.5	24.2	
2 Ethane							
1	1.901	1.900	0.001	18049882	36.5	36.7	
2	2.172	2.172	0.000	15719044	36.5	34.7	
3 Ethylene							
1	2.601	2.589	0.012	14805992	34.0	33.9	
2	2.044	2.044	0.000	11556248	34.0	36.4	

Reagents:

_RSK_STK_00028 Amount Added: 50.00 Units: uL

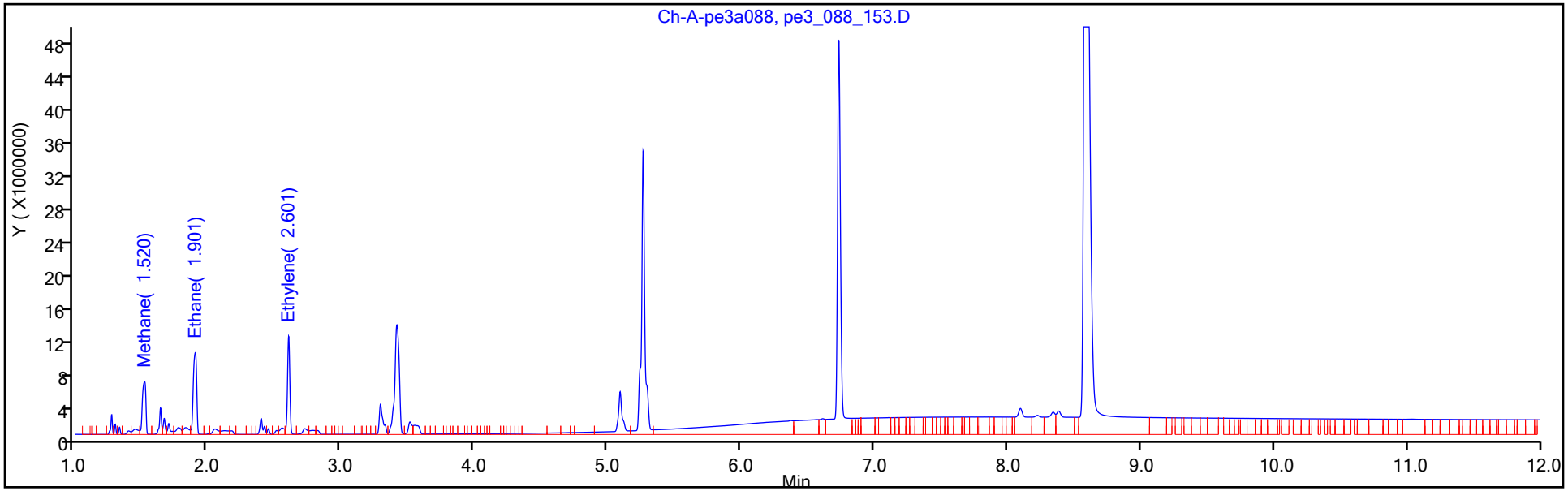
Report Date: 28-Sep-2023 09:02:49 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

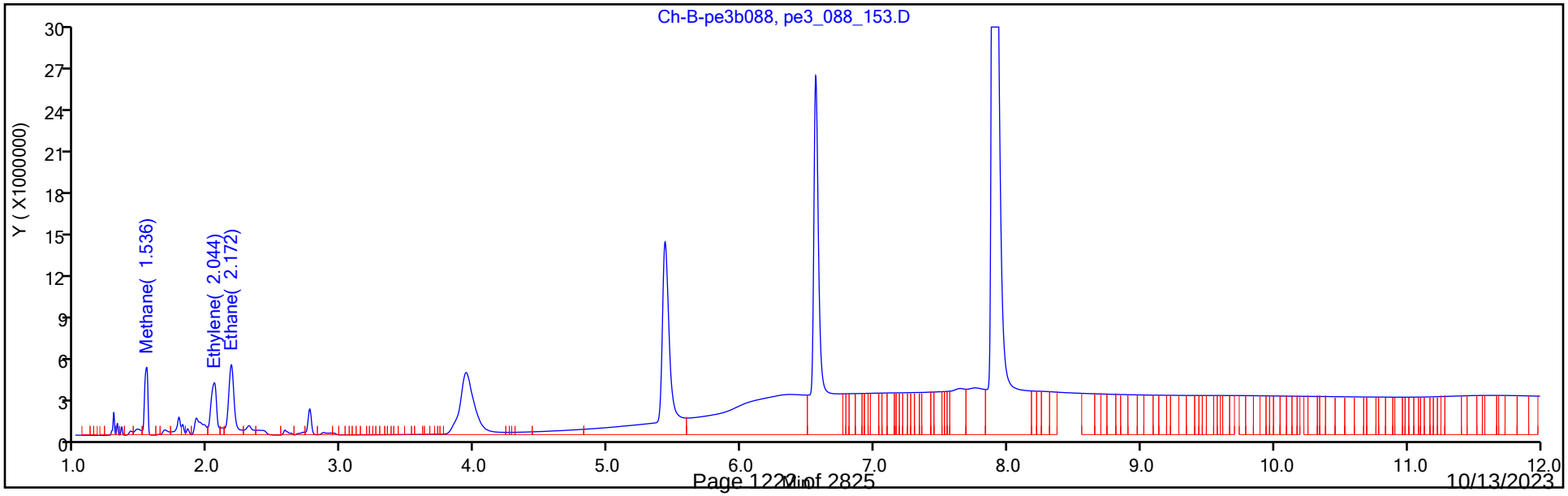
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230927-113996.b\pe3_088_153.D

Injection Date:	27-Sep-2023 13:05:47	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213061-F-2 MSD			Worklist Smp#:	10
Client ID:	SW-B-09252023-MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-213061-1

SDG No.: 480-213061-1

Client Sample ID: GW-10S-09262023-MSD MSD | Lab Sample ID: 480-213117-5 MSD

Matrix: Water | Lab File ID: pe3_088_179.D

Analysis Method: RSK-175 | Date Collected: 09/26/2023 13:25

Sample wt/vol: 17(mL) | Date Analyzed: 09/28/2023 15:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Alumina ID: 0.53(mm)

Purge Volume: | Heated Purge: (Y/N) N pH: 2.0

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

Analysis Batch No.: 685350 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	36.5		7.5	1.5

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_179.D
Lims ID: 480-213117-D-5 MSD
Client ID: GW-10S-09262023-MSD
Sample Type: MSD
Inject. Date: 28-Sep-2023 15:04:22 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: tchrom Instrument ID: PE-03

Method: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\rsk175.m
Limit Group: GC - RSK175 ICAL
Last Update: 29-Sep-2023 06:30:12 Calib Date: 07-Mar-2023 14:58:19
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\PE-03\20230307-110424.b\pe3_081_338.D

Column 1 : Alumina (0.00 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: CTX1692

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.520	1.521	-0.001	131282804	19.5	280.3	
2	1.533	1.537	-0.004	105724405	19.5	296.8	
2 Ethane							
1	1.899	1.903	-0.004	17957178	36.5	36.5	
2	2.164	2.172	-0.008	16973507	36.5	37.4	
3 Ethylene							
1	2.585	2.597	-0.012	16933351	34.0	39.1	
2	2.045	2.044	0.001	12923935	34.0	40.7	

Reagents:

_RSK_STK_00028 Amount Added: 50.00 Units: uL

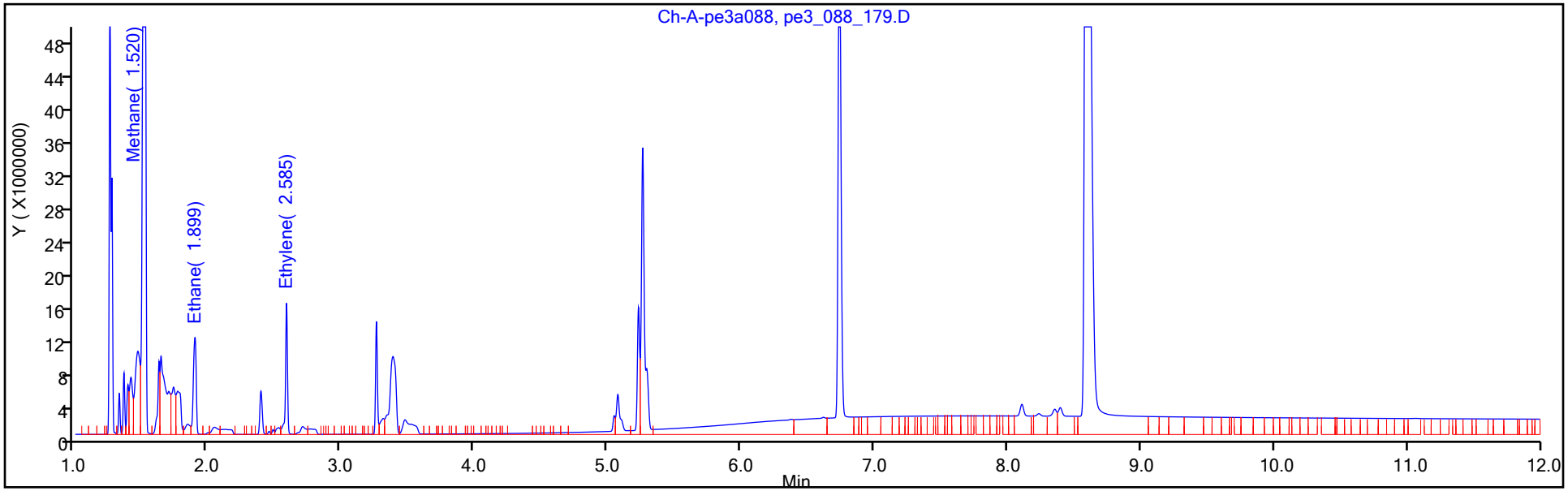
Report Date: 29-Sep-2023 06:30:33 Chrom Revision: 2.3 22-Sep-2023 11:33:50

Eurofins Buffalo

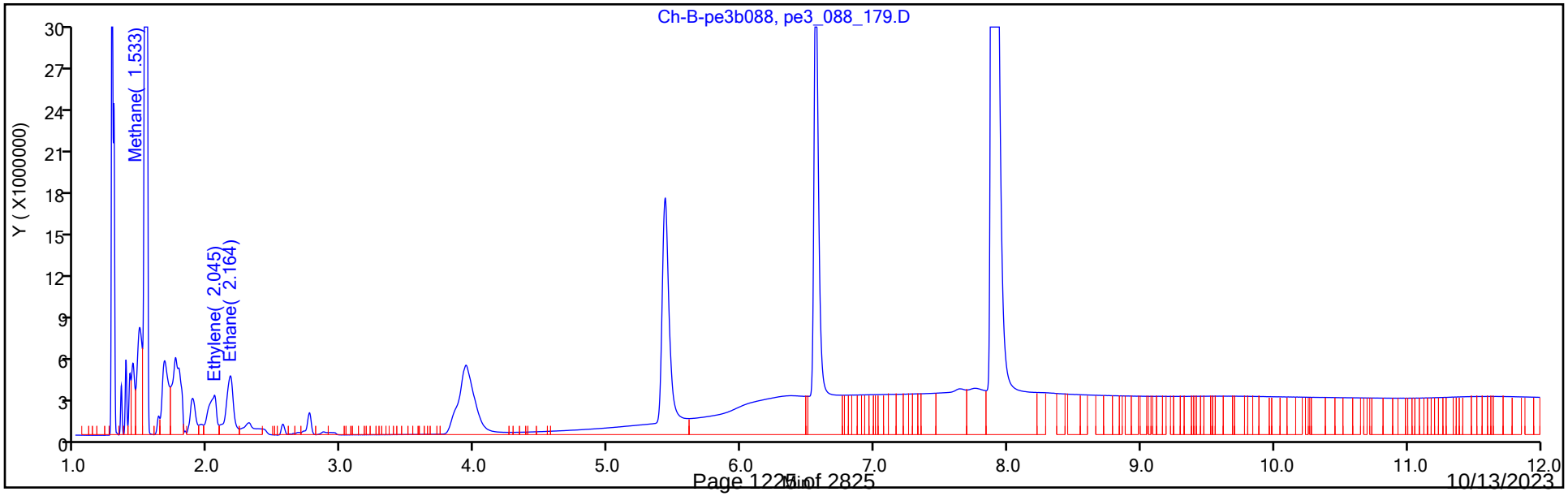
Data File: \\chromfs\Buffalo\ChromData\PE-03\20230928-114012.b\pe3_088_179.D

Injection Date:	28-Sep-2023 15:04:22	Instrument ID:	PE-03	Operator ID:	tchrom
Lims ID:	480-213117-D-5 MSD			Worklist Smp#:	19
Client ID:	GW-10S-09262023-MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	rsk175	Limit Group:	GC - RSK175 ICAL		

Column: Alumina (0.00 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: PE-03 Start Date: 03/07/2023 12:27

Analysis Batch Number: 660706 End Date: 03/07/2023 15:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-660706/4		03/07/2023 12:27	1	pe3_081_330.D	Alumina 0.53(mm)
IC 480-660706/4		03/07/2023 12:27	1		RTX-U Plot 0.32(mm)
IC 480-660706/5		03/07/2023 12:46	1	pe3_081_331.D	Alumina 0.53(mm)
IC 480-660706/5		03/07/2023 12:46	1		RTX-U Plot 0.32(mm)
IC 480-660706/6		03/07/2023 13:05	1	pe3_081_332.D	Alumina 0.53(mm)
IC 480-660706/6		03/07/2023 13:05	1		RTX-U Plot 0.32(mm)
IC 480-660706/7		03/07/2023 13:23	1	pe3_081_333.D	Alumina 0.53(mm)
IC 480-660706/7		03/07/2023 13:23	1		RTX-U Plot 0.32(mm)
IC 480-660706/8		03/07/2023 13:42	1	pe3_081_334.D	Alumina 0.53(mm)
IC 480-660706/8		03/07/2023 13:42	1		RTX-U Plot 0.32(mm)
IC 480-660706/9		03/07/2023 14:01	1	pe3_081_335.D	Alumina 0.53(mm)
IC 480-660706/9		03/07/2023 14:01	1		RTX-U Plot 0.32(mm)
IC 480-660706/10		03/07/2023 14:20	1	pe3_081_336.D	Alumina 0.53(mm)
IC 480-660706/10		03/07/2023 14:20	1		RTX-U Plot 0.32(mm)
IC 480-660706/11		03/07/2023 14:39	1	pe3_081_337.D	Alumina 0.53(mm)
IC 480-660706/11		03/07/2023 14:39	1		RTX-U Plot 0.32(mm)
IC 480-660706/12		03/07/2023 14:58	1	pe3_081_338.D	Alumina 0.53(mm)
IC 480-660706/12		03/07/2023 14:58	1		RTX-U Plot 0.32(mm)
ICV 480-660706/13		03/07/2023 15:17	1	pe3_081_339.D	Alumina 0.53(mm)
ICV 480-660706/13		03/07/2023 15:17	1		RTX-U Plot 0.32(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: PE-03 Start Date: 09/27/2023 10:32

Analysis Batch Number: 685202 End Date: 09/27/2023 15:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-685202/2		09/27/2023 10:32	1	pe3_088_145.D	Alumina 0.53(mm)
CCV 480-685202/2		09/27/2023 10:32	1		RTX-U Plot 0.32(mm)
MB 480-685202/3		09/27/2023 10:51	1	pe3_088_146.D	Alumina 0.53(mm)
ZZZZZ		09/27/2023 10:51	1		RTX-U Plot 0.32(mm)
LCS 480-685202/4		09/27/2023 11:09	1	pe3_088_147.D	Alumina 0.53(mm)
ZZZZZ		09/27/2023 11:09	1		RTX-U Plot 0.32(mm)
480-213061-2	SW-B-09252023	09/27/2023 11:31	1	pe3_088_148.D	Alumina 0.53(mm)
ZZZZZ		09/27/2023 11:31	1		RTX-U Plot 0.32(mm)
480-213061-1	GW-13D-09252023	09/27/2023 11:50	1	pe3_088_149.D	Alumina 0.53(mm)
ZZZZZ		09/27/2023 11:50	1		RTX-U Plot 0.32(mm)
480-213061-3	FD-1-09252023	09/27/2023 12:09	1	pe3_088_150.D	Alumina 0.53(mm)
ZZZZZ		09/27/2023 12:09	1		RTX-U Plot 0.32(mm)
480-213061-4	EB-1-09252023	09/27/2023 12:28	1	pe3_088_151.D	Alumina 0.53(mm)
ZZZZZ		09/27/2023 12:28	1		RTX-U Plot 0.32(mm)
480-213061-2 MS	SW-B-09252023-MS MS	09/27/2023 12:46	1	pe3_088_152.D	Alumina 0.53(mm)
ZZZZZ		09/27/2023 12:46	1		RTX-U Plot 0.32(mm)
480-213061-2 MSD	SW-B-09252023-MSD MSD	09/27/2023 13:05	1	pe3_088_153.D	Alumina 0.53(mm)
ZZZZZ		09/27/2023 13:05	1		RTX-U Plot 0.32(mm)
CCV 480-685202/11		09/27/2023 13:24	1	pe3_088_154.D	Alumina 0.53(mm)
CCV 480-685202/11		09/27/2023 13:24	1		RTX-U Plot 0.32(mm)
ZZZZZ		09/27/2023 13:48	1		Alumina 0.53(mm)
ZZZZZ		09/27/2023 13:48	1		RTX-U Plot 0.32(mm)
ZZZZZ		09/27/2023 14:07	22		Alumina 0.53(mm)
ZZZZZ		09/27/2023 14:07	22		RTX-U Plot 0.32(mm)
ZZZZZ		09/27/2023 14:26	44		Alumina 0.53(mm)
ZZZZZ		09/27/2023 14:26	44		RTX-U Plot 0.32(mm)
ZZZZZ		09/27/2023 14:45	44		Alumina 0.53(mm)
ZZZZZ		09/27/2023 14:45	44		RTX-U Plot 0.32(mm)
ZZZZZ		09/27/2023 15:04	44		Alumina 0.53(mm)
ZZZZZ		09/27/2023 15:04	44		RTX-U Plot 0.32(mm)
CCV 480-685202/17		09/27/2023 15:23	1		Alumina 0.53(mm)
CCV 480-685202/17		09/27/2023 15:23	1		RTX-U Plot 0.32(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: PE-03 Start Date: 09/28/2023 09:43

Analysis Batch Number: 685350 End Date: 09/28/2023 15:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-685350/2		09/28/2023 09:43	1	pe3_088_162.D	Alumina 0.53(mm)
CCV 480-685350/2		09/28/2023 09:43	1		RTX-U Plot 0.32(mm)
MB 480-685350/3		09/28/2023 10:02	1	pe3_088_163.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 10:02	1		RTX-U Plot 0.32(mm)
LCS 480-685350/4		09/28/2023 10:21	1	pe3_088_164.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 10:21	1		RTX-U Plot 0.32(mm)
LCSD 480-685350/5		09/28/2023 10:40	1	pe3_088_165.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 10:40	1		RTX-U Plot 0.32(mm)
ZZZZZ		09/28/2023 11:18	440		Alumina 0.53(mm)
ZZZZZ		09/28/2023 11:18	440		RTX-U Plot 0.32(mm)
ZZZZZ		09/28/2023 11:36	440		Alumina 0.53(mm)
ZZZZZ		09/28/2023 11:36	440		RTX-U Plot 0.32(mm)
ZZZZZ		09/28/2023 11:55	440		Alumina 0.53(mm)
ZZZZZ		09/28/2023 11:55	440		RTX-U Plot 0.32(mm)
480-213117-1	GW-M-26S-09262023	09/28/2023 12:14	1	pe3_088_170.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 12:14	1		RTX-U Plot 0.32(mm)
480-213117-2	GW-M-26D-09262023	09/28/2023 12:33	1	pe3_088_171.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 12:33	1		RTX-U Plot 0.32(mm)
480-213117-3	GW-11D-09262023	09/28/2023 12:52	1	pe3_088_172.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 12:52	1		RTX-U Plot 0.32(mm)
480-213117-4	DUP-2-09262023	09/28/2023 13:11	1	pe3_088_173.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 13:11	1		RTX-U Plot 0.32(mm)
480-213117-5	GW-10S-09262023	09/28/2023 13:30	1	pe3_088_174.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 13:30	1		RTX-U Plot 0.32(mm)
480-213117-6	GW-13S-09262023	09/28/2023 13:48	1	pe3_088_175.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 13:48	1		RTX-U Plot 0.32(mm)
480-213117-7	GW-M-27D-09262023	09/28/2023 14:07	1	pe3_088_176.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 14:07	1		RTX-U Plot 0.32(mm)
480-213117-8	EB-2-09262023	09/28/2023 14:26	1	pe3_088_177.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 14:26	1		RTX-U Plot 0.32(mm)
480-213117-5 MS	GW-10S-09262023-MS MS	09/28/2023 14:45	1	pe3_088_178.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 14:45	1		RTX-U Plot 0.32(mm)
480-213117-5 MSD	GW-10S-09262023-MSD MSD	09/28/2023 15:04	1	pe3_088_179.D	Alumina 0.53(mm)
ZZZZZ		09/28/2023 15:04	1		RTX-U Plot 0.32(mm)
CCV 480-685350/20		09/28/2023 15:23	1	pe3_088_180.D	Alumina 0.53(mm)
CCV 480-685350/20		09/28/2023 15:23	1		RTX-U Plot 0.32(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: PE-03 Start Date: 09/29/2023 07:27

Analysis Batch Number: 685513 End Date: 09/29/2023 15:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-685513/2		09/29/2023 07:27	1	pe3_088_182.D	Alumina 0.53(mm)
CCV 480-685513/2		09/29/2023 07:27	1		RTX-U Plot 0.32(mm)
MB 480-685513/3		09/29/2023 07:46	1	pe3_088_183.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 07:46	1		RTX-U Plot 0.32(mm)
LCS 480-685513/4		09/29/2023 08:05	1	pe3_088_184.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 08:05	1		RTX-U Plot 0.32(mm)
LCSD 480-685513/5		09/29/2023 08:23	1	pe3_088_185.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 08:23	1		RTX-U Plot 0.32(mm)
480-213168-1	SW-D-09272023	09/29/2023 08:44	1	pe3_088_186.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 08:44	1		RTX-U Plot 0.32(mm)
480-213168-2	GW-M-28S-09272023	09/29/2023 09:03	1	pe3_088_187.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 09:03	1		RTX-U Plot 0.32(mm)
480-213168-3	GW-M-29S-09272023	09/29/2023 09:21	1	pe3_088_188.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 09:21	1		RTX-U Plot 0.32(mm)
480-213168-4	GW-MW-4-09272023	09/29/2023 09:40	1	pe3_088_189.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 09:40	1		RTX-U Plot 0.32(mm)
480-213168-5	GW-M-29D-09272023	09/29/2023 09:59	1	pe3_088_190.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 09:59	1		RTX-U Plot 0.32(mm)
480-213168-6	GW-M-25D-09272023	09/29/2023 10:18	1	pe3_088_191.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 10:18	1		RTX-U Plot 0.32(mm)
480-213168-7	GW-M-25S-09272023	09/29/2023 10:37	1	pe3_088_192.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 10:37	1		RTX-U Plot 0.32(mm)
480-213168-8	GW-M-1-09272023	09/29/2023 10:56	1	pe3_088_193.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 10:56	1		RTX-U Plot 0.32(mm)
480-213168-9	GW-M-28D-0929023	09/29/2023 11:15	1	pe3_088_194.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 11:15	1		RTX-U Plot 0.32(mm)
480-213168-10	EB-3-09272023	09/29/2023 11:33	1	pe3_088_195.D	Alumina 0.53(mm)
ZZZZZ		09/29/2023 11:33	1		RTX-U Plot 0.32(mm)
CCV 480-685513/16		09/29/2023 11:52	1	pe3_088_196.D	Alumina 0.53(mm)
CCV 480-685513/16		09/29/2023 11:52	1		RTX-U Plot 0.32(mm)
ZZZZZ		09/29/2023 13:49	1		Alumina 0.53(mm)
ZZZZZ		09/29/2023 13:49	1		RTX-U Plot 0.32(mm)
ZZZZZ		09/29/2023 14:08	22		Alumina 0.53(mm)
ZZZZZ		09/29/2023 14:08	22		RTX-U Plot 0.32(mm)
ZZZZZ		09/29/2023 14:27	110		Alumina 0.53(mm)
ZZZZZ		09/29/2023 14:27	110		RTX-U Plot 0.32(mm)
ZZZZZ		09/29/2023 14:45	1		Alumina 0.53(mm)
ZZZZZ		09/29/2023 14:45	1		RTX-U Plot 0.32(mm)
CCV 480-685513/21		09/29/2023 15:04	1		Alumina 0.53(mm)
CCV 480-685513/21		09/29/2023 15:04	1		RTX-U Plot 0.32(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: PE-03 Start Date: 10/04/2023 07:23

Analysis Batch Number: 686019 End Date: 10/04/2023 12:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-686019/2		10/04/2023 07:23	1	pe3_088_225.D	Alumina 0.53(mm)
CCV 480-686019/2		10/04/2023 07:23	1		RTX-U Plot 0.32(mm)
MB 480-686019/3		10/04/2023 07:41	1	pe3_088_226.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 07:41	1		RTX-U Plot 0.32(mm)
LCS 480-686019/4		10/04/2023 08:00	1	pe3_088_227.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 08:00	1		RTX-U Plot 0.32(mm)
LCSD 480-686019/5		10/04/2023 08:19	1	pe3_088_228.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 08:19	1		RTX-U Plot 0.32(mm)
480-213196-1	GW-4S-09282023	10/04/2023 08:38	1	pe3_088_229.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 08:38	1		RTX-U Plot 0.32(mm)
480-213196-2	GW-4D-09282023	10/04/2023 08:57	1	pe3_088_230.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 08:57	1		RTX-U Plot 0.32(mm)
480-213196-3	GW-M-24DR-09282023	10/04/2023 09:16	1	pe3_088_231.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 09:16	1		RTX-U Plot 0.32(mm)
480-213196-4	GW-DGC-4S-09282023	10/04/2023 09:35	1	pe3_088_232.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 09:35	1		RTX-U Plot 0.32(mm)
480-213196-5	SW-F-09282023	10/04/2023 09:53	1	pe3_088_233.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 09:53	1		RTX-U Plot 0.32(mm)
480-213196-6	SW-A-09282023	10/04/2023 10:12	1	pe3_088_234.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 10:12	1		RTX-U Plot 0.32(mm)
480-213196-7	SW-E-09282023	10/04/2023 10:31	1	pe3_088_235.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 10:31	1		RTX-U Plot 0.32(mm)
480-213196-8	SW-G-09282023	10/04/2023 10:50	1	pe3_088_236.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 10:50	1		RTX-U Plot 0.32(mm)
480-213196-9	EB-4-09282023	10/04/2023 11:09	1	pe3_088_237.D	Alumina 0.53(mm)
ZZZZZ		10/04/2023 11:09	1		RTX-U Plot 0.32(mm)
ZZZZZ		10/04/2023 11:28	44		Alumina 0.53(mm)
ZZZZZ		10/04/2023 11:28	44		RTX-U Plot 0.32(mm)
ZZZZZ		10/04/2023 11:47	44		Alumina 0.53(mm)
ZZZZZ		10/04/2023 11:47	44		RTX-U Plot 0.32(mm)
ZZZZZ		10/04/2023 12:05	44		Alumina 0.53(mm)
ZZZZZ		10/04/2023 12:05	44		RTX-U Plot 0.32(mm)
ZZZZZ		10/04/2023 12:24	44		Alumina 0.53(mm)
ZZZZZ		10/04/2023 12:24	44		RTX-U Plot 0.32(mm)
CCV 480-686019/19		10/04/2023 12:43	1	pe3_088_242.D	Alumina 0.53(mm)
CCV 480-686019/19		10/04/2023 12:43	1		RTX-U Plot 0.32(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 660706 Batch Start Date: 03/07/23 12:27 Batch Analyst: Clark, Daniel S

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	_RSK_STK 00026	_RSK_STK 00027		
IC 480-660706/4		RSK-175		17 mL	17 mL		10 uL		
IC 480-660706/5		RSK-175		17 mL	17 mL		20 uL		
IC 480-660706/6		RSK-175		17 mL	17 mL		50 uL		
IC 480-660706/7		RSK-175		17 mL	17 mL		100 uL		
IC 480-660706/8		RSK-175		17 mL	17 mL		200 uL		
IC 480-660706/9		RSK-175		17 mL	17 mL		400 uL		
IC 480-660706/10		RSK-175		17 mL	17 mL		600 uL		
IC 480-660706/11		RSK-175		17 mL	17 mL		800 uL		
IC 480-660706/12		RSK-175		17 mL	17 mL		1000 uL		
ICV 480-660706/13		RSK-175		17 mL	17 mL	100 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685202 Batch Start Date: 09/27/23 10:32 Batch Analyst: Neary, Mary A

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	_RSK_STK 00028		
CCV 480-685202/2		RSK-175		17 mL	17 mL	2 SU	100 uL		
MB 480-685202/3		RSK-175		17 mL	17 mL	2 SU			
LCS 480-685202/4		RSK-175		17 mL	17 mL	2 SU	50 uL		
480-213061-F-2	SW-B-09252023	RSK-175	T	17 mL	17 mL	2 SU			
480-213061-F-1	GW-13D-09252023	RSK-175	T	17 mL	17 mL	2 SU			
480-213061-F-3	FD-1-09252023	RSK-175	T	17 mL	17 mL	2 SU			
480-213061-F-4	EB-1-09252023	RSK-175	T	17 mL	17 mL	2 SU			
480-213061-F-2 MS	SW-B-09252023-MS	RSK-175	T	17 mL	17 mL	2 SU	50 uL		
480-213061-F-2 MSD	SW-B-09252023-MSD	RSK-175	T	17 mL	17 mL	2 SU	50 uL		
CCV 480-685202/11		RSK-175		17 mL	17 mL	2 SU	100 uL		

Batch Notes	
Batch Comment	HCL Lot#62225

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685350 Batch Start Date: 09/28/23 09:43 Batch Analyst: Neary, Mary A

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	_RSK_STK 00028		
CCV 480-685350/2		RSK-175		17 mL	17 mL	2 SU	100 uL		
MB 480-685350/3		RSK-175		17 mL	17 mL	2 SU			
LCS 480-685350/4		RSK-175		17 mL	17 mL	2 SU	50 uL		
LCSD 480-685350/5		RSK-175		17 mL	17 mL	2 SU	50 uL		
480-213117-D-1	GW-M-26S-09262023	RSK-175	T	17 mL	17 mL	2 SU			
480-213117-D-2	GW-M-26D-09262023	RSK-175	T	17 mL	17 mL	2 SU			
480-213117-D-3	GW-11D-09262023	RSK-175	T	17 mL	17 mL	2 SU			
480-213117-D-4	DUP-2-09262023	RSK-175	T	17 mL	17 mL	2 SU			
480-213117-D-5	GW-10S-09262023	RSK-175	T	17 mL	17 mL	2 SU			
480-213117-D-6	GW-13S-09262023	RSK-175	T	17 mL	17 mL	2 SU			
480-213117-D-7	GW-M-27D-09262023	RSK-175	T	17 mL	17 mL	2 SU			
480-213117-D-8	EB-2-09262023	RSK-175	T	17 mL	17 mL	2 SU			
480-213117-D-5 MS	GW-10S-09262023-MS	RSK-175	T	17 mL	17 mL	2 SU	50 uL		
480-213117-D-5 MSD	GW-10S-09262023-MSD	RSK-175	T	17 mL	17 mL	2 SU	50 uL		
CCV 480-685350/20		RSK-175		17 mL	17 mL	2 SU	100 uL		

Batch Notes	
Batch Comment	HCl Lot#62225

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685513 Batch Start Date: 09/29/23 07:27 Batch Analyst: Neary, Mary A

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	_RSK_STK 00028		
CCV 480-685513/2		RSK-175		17 mL	17 mL	2 SU	100 uL		
MB 480-685513/3		RSK-175		17 mL	17 mL	2 SU			
LCS 480-685513/4		RSK-175		17 mL	17 mL	2 SU	50 uL		
LCSD 480-685513/5		RSK-175		17 mL	17 mL	2 SU	50 uL		
480-213168-F-1	SW-D-09272023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-2	GW-M-28S-09272023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-3	GW-M-29S-09272023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-4	GW-MW-4-09272023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-5	GW-M-29D-09272023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-6	GW-M-25D-09272023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-7	GW-M-25S-09272023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-8	GW-M-1-09272023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-9	GW-M-28D-0929023	RSK-175	T	17 mL	17 mL	2 SU			
480-213168-F-10	EB-3-09272023	RSK-175	T	17 mL	17 mL	2 SU			
CCV 480-685513/16		RSK-175		17 mL	17 mL	2 SU	100 uL		

Batch Notes	
Batch Comment	HCl Lot#62225

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 686019 Batch Start Date: 10/04/23 07:23 Batch Analyst: Neary, Mary A

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	_RSK_STK 00028		
CCV 480-686019/2		RSK-175		17 mL	17 mL	2 SU	100 uL		
MB 480-686019/3		RSK-175		17 mL	17 mL	2 SU			
LCS 480-686019/4		RSK-175		17 mL	17 mL	2 SU	50 uL		
LCSD 480-686019/5		RSK-175		17 mL	17 mL	2 SU	50 uL		
480-213196-F-1	GW-4S-09282023	RSK-175	T	17 mL	17 mL	2 SU			
480-213196-F-2	GW-4D-09282023	RSK-175	T	17 mL	17 mL	2 SU			
480-213196-F-3	GW-M-24DR-09282023	RSK-175	T	17 mL	17 mL	2 SU			
480-213196-F-4	GW-DGC-4S-09282023	RSK-175	T	17 mL	17 mL	2 SU			
480-213196-F-5	SW-F-09282023	RSK-175	T	17 mL	17 mL	2 SU			
480-213196-F-6	SW-A-09282023	RSK-175	T	17 mL	17 mL	2 SU			
480-213196-F-7	SW-E-09282023	RSK-175	T	17 mL	17 mL	2 SU			
480-213196-F-8	SW-G-09282023	RSK-175	T	17 mL	17 mL	2 SU			
480-213196-F-9	EB-4-09282023	RSK-175	T	17 mL	17 mL	2 SU			
CCV 480-686019/19		RSK-175		17 mL	17 mL	2 SU	100 uL		

Batch Notes	
Batch Comment	HCl Lot#62225

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG No.: 480-213061-1

Project: Malta Rocket Fuel (MRFA)

Client Sample ID	Lab Sample ID
GW-13D-09252023	480-213061-1
SW-B-09252023	480-213061-2
FD-1-09252023	480-213061-3
EB-1-09252023	480-213061-4
GW-M-27D-09262023	480-213117-7

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: GW-13D-09252023 Lab Sample ID: 480-213061-1

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/25/2023 16:25

Reporting Basis: WET Date Received: 09/26/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.0033	0.0040	0.0010	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SW-B-09252023 Lab Sample ID: 480-213061-2

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/25/2023 13:00

Reporting Basis: WET Date Received: 09/26/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.0014	0.0040	0.0010	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FD-1-09252023 Lab Sample ID: 480-213061-3

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/25/2023 00:00

Reporting Basis: WET Date Received: 09/26/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.0015	0.0040	0.0010	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: EB-1-09252023 Lab Sample ID: 480-213061-4

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/25/2023 00:00

Reporting Basis: WET Date Received: 09/26/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.0013	0.0040	0.0010	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: GW-M-27D-09262023 Lab Sample ID: 480-213117-7

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/26/2023 16:30

Reporting Basis: WET Date Received: 09/27/2023 10:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.063	0.0040	0.0010	mg/L			1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

ICV Source: MEI_MSS_ICV_00147 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00306

Analyte	ICV 480-686781/5 10/09/2023 12:54				CCV 480-686781/18 10/09/2023 18:55				CCV 480-686781/23 10/09/2023 19:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.750		0.750	100	0.957		1.00	96	0.966		1.00	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

ICV Source: MEI_MSS_ICV_00147 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00306

Analyte	CCV 480-686781/35 10/09/2023 20:23											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.960		1.00	96								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

ICV Source: MEI_10_CCVL_00503 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00503

Analyte	ICVL 480-686781/7 10/09/2023 13:01				CCVL 480-686781/20 10/09/2023 19:03				CCVL 480-686781/25 10/09/2023 19:46			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.00400		0.00400	100	0.00391	J	0.00400	98	0.00398	J	0.00400	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

ICV Source: MEI_10_CCVL_00503 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00503

Analyte	CCVL 480-686781/37 10/09/2023 20:30											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.00367	J	0.00400	92								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

ICV Source: MEI_MSS_ICV_00147 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00306

Analyte	ICV 480-686584/5 10/08/2023 12:08				CCV 480-686584/18 10/08/2023 14:21				CCV 480-686584/23 10/08/2023 15:05			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.763		0.750	102	1.04		1.00	104	1.03		1.00	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

ICV Source: MEI_MSS_ICV_00147 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00306

Analyte	CCV 480-686584/35 10/08/2023 15:49				CCV 480-686584/47 10/08/2023 16:33							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	1.03		1.00	102	1.03		1.00	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

ICV Source: MEI_10_CCVL_00503 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00503

Analyte	ICVL 480-686584/7 10/08/2023 12:15				CCVL 480-686584/20 10/08/2023 14:29				CCVL 480-686584/25 10/08/2023 15:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.00385	J	0.00400	96	0.00439		0.00400	110	0.00408		0.00400	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

ICV Source: MEI_10_CCVL_00503 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00503

Analyte	CCVL 480-686584/37 10/08/2023 15:56				CCVL 480-686584/49 10/08/2023 16:40							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.00408		0.00400	102	0.00433		0.00400	108				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Concentration Units: mg/L

Analyte	RL	ICB 480-686781/6 10/09/2023 12:57		CCB 480-686781/19 10/09/2023 18:59		CCB 480-686781/24 10/09/2023 19:43		CCB 480-686781/36 10/09/2023 20:27	
		Found	C	Found	C	Found	C	Found	C
Chromium	0.0040	0.0040	U	0.0040	U	0.0040	U	0.0040	U

Italicized analytes were not requested for this sequence.

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Concentration Units: mg/L

Analyte	RL	ICB 480-686584/6 10/08/2023 12:11		CCB 480-686584/19 10/08/2023 14:25		CCB 480-686584/24 10/08/2023 15:09		CCB 480-686584/36 10/08/2023 15:52	
		Found	C	Found	C	Found	C	Found	C
Chromium	0.0040	0.0040	U	0.0040	U	0.0040	U	0.0040	U

Italicized analytes were not requested for this sequence.

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Concentration Units: mg/L

Analyte	RL	CCB 480-686584/48 10/08/2023 16:36							
		Found	C	Found	C	Found	C	Found	C
Chromium	0.0040	0.0040	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Concentration Units: mg/L Lab Sample ID: MB 480-685462/1-A

Instrument Code: ICAP2 Batch No.: 686584

CAS No.	Analyte	Concentration	C	Q	Method
7440-47-3	Chromium	0.0040	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Concentration Units: mg/L Lab Sample ID: MB 480-685101/1-A

Instrument Code: ICAP1 Batch No.: 686781

CAS No.	Analyte	Concentration	C	Q	Method
7440-47-3	Chromium	0.0040	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICSA 480-686781/8 Instrument ID: ICAP1

Lab File ID: I2100923C-6.asc ICS Source: MEI_MSS_ICSA_00056

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Chromium		**-0.0005**	
Aluminum	*500*	*498*	*100*
Antimony		*0.0005*	
Arsenic		*-0.0037*	
Barium	*0.0120*	*0.0012*	
Beryllium		*0.0001*	
Boron		*0.0006*	
Cadmium		*0.0000*	
Calcium	*500*	*483*	*97*
Cobalt		*-0.0007*	
Copper		*-0.0062*	
Iron	*200*	*190*	*95*
Lead		*0.0012*	
Lithium		*-0.0153*	
Magnesium	*500*	*495*	*99*
Manganese		*0.0001*	
Molybdenum		*-0.0006*	
Nickel		*-0.0001*	
Potassium		*0.114*	
Selenium		*0.0054*	
Silicon		*0.0073*	
Silver		*0.0016*	
Sodium		*0.124*	
Strontium		*0.0037*	
Sulfur		*0.0364*	
Thallium		*0.0030*	
Tin		*-0.0011*	
Titanium		*0.0034*	
Vanadium		*0.0006*	
Zinc		*0.0024*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICSAB 480-686781/9 Instrument ID: ICAP1

Lab File ID: I2100923C-6.asc ICS Source: MEI_MSS_ICSAB_00058

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Chromium	**0.500**	**0.492**	**98**
Aluminum	*500*	*497*	*99*
Antimony	*0.500*	*0.494*	*99*
Arsenic	*0.500*	*0.487*	*97*
Barium	*0.513*	*0.498*	*97*
Beryllium	*0.250*	*0.253*	*101*
Boron	*5.00*	*4.83*	*97*
Cadmium	*0.500*	*0.504*	*101*
Calcium	*500*	*478*	*96*
Cobalt	*0.500*	*0.501*	*100*
Copper	*0.500*	*0.506*	*101*
Iron	*200*	*190*	*95*
Lead	*0.500*	*0.505*	*101*
Lithium		*-0.0165*	
Magnesium	*500*	*495*	*99*
Manganese	*0.501*	*0.486*	*97*
Molybdenum	*0.500*	*0.486*	*97*
Nickel	*0.501*	*0.499*	*100*
Potassium	*5.00*	*5.35*	*107*
Selenium	*0.500*	*0.483*	*97*
Silicon	*5.00*	*4.93*	*99*
Silver	*0.500*	*0.524*	*105*
Sodium	*5.00*	*5.44*	*109*
Strontium	*0.500*	*0.501*	*100*
Sulfur		*0.0762*	
Thallium	*0.500*	*0.491*	*98*
Tin	*0.500*	*0.491*	*98*
Titanium	*0.500*	*0.496*	*99*
Vanadium	*0.500*	*0.496*	*99*
Zinc	*0.501*	*0.462*	*92*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICSA 480-686584/8 Instrument ID: ICAP2

Lab File ID: I2100823D-2.asc ICS Source: MEI_MSS_ICSA_00056

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Chromium		**-0.0012**	
Aluminum	*500*	*494*	*99*
Antimony		*-0.0002*	
Arsenic		*-0.0050*	
Barium	*0.0120*	*0.0012*	
Beryllium		*0.0000*	
Boron		*0.0000*	
Cadmium		*0.0001*	
Calcium	*500*	*468*	*94*
Cobalt		*-0.0007*	
Copper		*-0.0026*	
Iron	*200*	*191*	*96*
Lead		*0.0014*	
Lithium		*-0.0159*	
Magnesium	*500*	*507*	*101*
Manganese		*0.0001*	
Molybdenum		*-0.0007*	
Nickel		*-0.0004*	
Potassium		*0.105*	
Selenium		*-0.0016*	
Silicon		*-0.0150*	
Silver		*0.0014*	
Sodium		*0.143*	
Strontium		*0.0035*	
Sulfur		*0.0344*	
Thallium		*0.0019*	
Tin		*-0.0007*	
Titanium		*0.0036*	
Vanadium		*0.0005*	
Zinc		*0.0020*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Lab Sample ID: ICSAB 480-686584/9 Instrument ID: ICAP2

Lab File ID: I2100823D-2.asc ICS Source: MEI_MSS_ICSAB_00058

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Chromium	**0.500**	**0.502**	**100**
Aluminum	*500*	*486*	*97*
Antimony	*0.500*	*0.491*	*98*
Arsenic	*0.500*	*0.481*	*96*
Barium	*0.513*	*0.505*	*99*
Beryllium	*0.250*	*0.243*	*97*
Boron	*5.00*	*4.85*	*97*
Cadmium	*0.500*	*0.502*	*100*
Calcium	*500*	*465*	*93*
Cobalt	*0.500*	*0.498*	*100*
Copper	*0.500*	*0.504*	*101*
Iron	*200*	*189*	*94*
Lead	*0.500*	*0.500*	*100*
Lithium		*-0.0154*	
Magnesium	*500*	*499*	*100*
Manganese	*0.501*	*0.477*	*95*
Molybdenum	*0.500*	*0.490*	*98*
Nickel	*0.501*	*0.490*	*98*
Potassium	*5.00*	*5.20*	*104*
Selenium	*0.500*	*0.480*	*96*
Silicon	*5.00*	*4.74*	*95*
Silver	*0.500*	*0.527*	*105*
Sodium	*5.00*	*5.20*	*104*
Strontium	*0.500*	*0.495*	*99*
Sulfur		*0.0787*	
Thallium	*0.500*	*0.487*	*97*
Tin	*0.500*	*0.487*	*97*
Titanium	*0.500*	*0.499*	*100*
Vanadium	*0.500*	*0.502*	*100*
Zinc	*0.501*	*0.469*	*94*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SW-B-09252023-MS MS Lab ID: 480-213061-2 MS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Chromium	0.207		0.0014	J	0.200	103	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SW-B-09252023-MSD MSD Lab ID: 480-213061-2 MSD

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Chromium	0.219		0.200	109	75-125	6	20		6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: SW-B-09252023 PDS Lab ID: 480-213061-2 PDS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Chromium	0.217		0.0014	J	0.200	108	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-685462/2-A

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

Sample Matrix: Water LCS Source: MED_01_W1_00078

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Chromium	0.200	0.215		108	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-685101/2-A

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

Sample Matrix: Water LCS Source: MED_01_W1_00078

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Chromium	0.200	0.210		105	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-213061-2

SDG No: 480-213061-1

Lab Name: Eurofins Buffalo Job No: 480-213061-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Chromium	0.0014	J	0.020	U	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG Number: 480-213061-1

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chromium	267.716	0.004	0.001

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG Number: 480-213061-1

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chromium	267.716	0.004	0.001

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG Number: 480-213061-1

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chromium	267.716	0.004	0.001

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG Number: 480-213061-1

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chromium	267.716	0.004	0.001

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG No.: 480-213061-1

ICP-AES Instrument ID: ICAP1 Date: 05/03/2023

Analyte	Wave Length	Al	As	Co	Cr	Fe	Mn	Mo	Ti	V					
Aluminum	308.215														
Antimony	206.833				0.005549										
Arsenic	189.042	-													
Barium	455.403														
Beryllium	313.042														
Boron	208.959							0.0357899							
Cadmium	228.802		0.0025209												
Calcium	317.933														
Chromium	267.716					-0.0000068	0.0002412								
Cobalt	228.616							-0.001025	0.0016463						
Copper	327.396														
Iron	259.940														
Lead	220.353	0.0016999				0.0000237		-0.0013264							
Lithium	670.784														
Magnesium	279.079						0.0044364								
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604					0.0000186									
Potassium	766.490														
Selenium	196.090														
Silicon	288.158								0.032415252						
Silver	328.068						00014582								
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856			0.001919033						-0.005518254					
Tin	189.989														
Titanium	334.904						0.0006563								
Vanadium	292.402					0.000013		-0.0111258	-0.007162						

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG No.: 480-213061-1

ICP-AES Instrument ID: ICAP1 Date: 05/03/2023

Analyte	Wave Length	Al	As	Co	Cr	Fe	Mn	Mo	Ti	V					
Zinc	206.200				-0.0017206										

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG No.: 480-213061-1

ICP-AES Instrument ID: ICAP2 Date: 10/25/2022

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Si	Ti	V		
Aluminum	308.215												0.087384		
Antimony	206.833	-0.000007				0.011957		0.00016231							
Arsenic	189.042						-0.008263								
Barium	455.403														
Beryllium	313.042														
Boron	208.959									0.050731					
Cadmium	228.802		-0.006470					-0.000016							
Calcium	317.933														
Chromium	267.716								0.000268						
Cobalt	228.616									-0.001042		0.001744			
Copper	327.396			0.000028								-0.001305			
Iron	259.940														
Lead	220.353	0.000061					0.000440	0.000033		-0.001835	0.000176				
Lithium	670.784			0.000124											
Magnesium	279.079								-0.004421						
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604							0.000024							
Potassium	766.490														
Selenium	196.090	-0.00004066													
Silicon	288.158											0.039884			
Silver	328.068							-0.00037	000122						
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856				0.001939				0.000496				-0.005484		
Tin	189.989														
Titanium	334.904									0.000981					
Vanadium	292.402							0.000029	0.000087	-0.014018		-0.000806			

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG No.: 480-213061-1

ICP-AES Instrument ID: ICAP2 Date: 10/25/2022

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Si	Ti	V		
Zinc	206.200					-0.001778									

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: ICAP1 Date: 07/03/2022 00:00

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chromium	15	10	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: ICAP2 Date: 07/03/2022 00:00

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chromium	15	10	6010C

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-685101/1-A	09/27/2023 08:17	685101		50	50
LCS 480-685101/2-A	09/27/2023 08:17	685101		50	50
480-213061-1	09/27/2023 08:17	685101		50	50
480-213061-2	09/27/2023 08:17	685101		50	50
480-213061-2 MS	09/27/2023 08:17	685101		50	50
480-213061-2 MSD	09/27/2023 08:17	685101		50	50
480-213061-3	09/27/2023 08:17	685101		50	50
480-213061-4	09/27/2023 08:17	685101		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-685462/1-A	09/29/2023 08:13	685462		50	50
LCS 480-685462/2-A	09/29/2023 08:13	685462		50	50
480-213117-7	09/29/2023 08:13	685462		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/09/2023 12:39 End Date: 10/09/2023 21:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cr																			
ICIS 480-686781/1	1		12:39	X																			
IC 480-686781/2			12:43	X																			
IC 480-686781/3			12:47	X																			
IC 480-686781/4			12:50	X																			
ICV 480-686781/5	1		12:54	X																			
ICB 480-686781/6	1		12:57	X																			
ICVL 480-686781/7	1		13:01	X																			
ICSA 480-686781/8	1		13:05	X																			
ICSAB 480-686781/9	1		13:09	X																			
ZZZZZZ			13:12																				
ZZZZZZ			13:16																				
ZZZZZZ			13:20																				
ZZZZZZ			13:24																				
ZZZZZZ			13:28																				
CCV 480-686781/15			13:31																				
CCB 480-686781/16			13:35																				
CCVL 480-686781/17			13:50																				
CCV 480-686781/18	1		18:55	X																			
CCB 480-686781/19	1		18:59	X																			
CCVL 480-686781/20	1		19:03	X																			
MB 480-685101/1-A	1	T	19:32	X																			
LCS 480-685101/2-A	1	T	19:35	X																			
CCV 480-686781/23	1		19:39	X																			
CCB 480-686781/24	1		19:43	X																			
CCVL 480-686781/25	1		19:46	X																			
480-213061-1	1	T	19:50	X																			
480-213061-2	1	T	19:54	X																			
480-213061-2 SD	5	T	19:57	X																			
480-213061-2 PDS	1	T	20:01	X																			
480-213061-2 MS	1	T	20:04	X																			
480-213061-2 MSD	1	T	20:08	X																			
480-213061-3	1	T	20:11	X																			
480-213061-4	1	T	20:15	X																			
ZZZZZZ			20:19																				
CCV 480-686781/35	1		20:23	X																			
CCB 480-686781/36	1		20:27	X																			
CCVL 480-686781/37	1		20:30	X																			
ZZZZZZ			20:34																				
ZZZZZZ			20:38																				
ZZZZZZ			20:42																				
ZZZZZZ			20:46																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/09/2023 12:39 End Date: 10/09/2023 21:15

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr																			
ZZZZZZ			20:50																				
ZZZZZZ			20:54																				
CCV 480-686781/44			21:08																				
CCB 480-686781/45			21:12																				
CCVL 480-686781/46			21:15																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: ICAP2 Method: 6010C

Start Date: 10/08/2023 11:53 End Date: 10/09/2023 02:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr																			
ICIS 480-686584/1	1		11:53	X																			
IC 480-686584/2			11:57	X																			
IC 480-686584/3			12:01	X																			
IC 480-686584/4			12:04	X																			
ICV 480-686584/5	1		12:08	X																			
ICB 480-686584/6	1		12:11	X																			
ICVL 480-686584/7	1		12:15	X																			
ICSA 480-686584/8	1		12:19	X																			
ICSAB 480-686584/9	1		12:23	X																			
ZZZZZZ			12:26																				
ZZZZZZ			12:30																				
ZZZZZZ			12:34																				
ZZZZZZ			12:38																				
ZZZZZZ			12:42																				
CCV 480-686584/15			12:45																				
CCB 480-686584/16			12:49																				
CCVL 480-686584/17			12:59																				
CCV 480-686584/18	1		14:21	X																			
CCB 480-686584/19	1		14:25	X																			
CCVL 480-686584/20	1		14:29	X																			
MB 480-685462/1-A	1	T	14:58	X																			
LCS 480-685462/2-A	1	T	15:02	X																			
CCV 480-686584/23	1		15:05	X																			
CCB 480-686584/24	1		15:09	X																			
CCVL 480-686584/25	1		15:13	X																			
ZZZZZZ			15:16																				
ZZZZZZ			15:20																				
ZZZZZZ			15:24																				
ZZZZZZ			15:27																				
ZZZZZZ			15:31																				
ZZZZZZ			15:34																				
ZZZZZZ			15:38																				
ZZZZZZ			15:41																				
ZZZZZZ			15:45																				
CCV 480-686584/35	1		15:49	X																			
CCB 480-686584/36	1		15:52	X																			
CCVL 480-686584/37	1		15:56	X																			
ZZZZZZ			16:00																				
ZZZZZZ			16:03																				
ZZZZZZ			16:07																				
ZZZZZZ			16:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: ICAP2 Method: 6010C

Start Date: 10/08/2023 11:53 End Date: 10/09/2023 02:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr																			
ZZZZZZ			16:14																				
ZZZZZZ			16:18																				
ZZZZZZ			16:22																				
ZZZZZZ			16:25																				
480-213117-7	1	T	16:29	X																			
CCV 480-686584/47	1		16:33	X																			
CCB 480-686584/48	1		16:36	X																			
CCVL 480-686584/49	1		16:40	X																			
ZZZZZZ			16:44																				
CCV 480-686584/51			17:17																				
CCB 480-686584/52			17:21																				
CCVL 480-686584/53			17:24																				
CCVL 480-686584/54			02:43																				
ZZZZZZ			02:47																				
CCV 480-686584/56			02:51																				
CCB 480-686584/57			02:54																				
ZZZZZZ			02:58																				

Prep Types

T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1 Analysis Batch No.: 686781

ICP Instrument ID: ICAP1 Start Date: 10/09/2023 End Date: 10/09/2023

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-686781/1	12:39										
ICV 480-686781/5	12:54	90		99		96		100			
ICB 480-686781/6	12:57	100		100		100		100			
ICVL 480-686781/7	13:01	99		100		100		101			
ICSA 480-686781/8	13:05	77		91		89		98			
ICSAB 480-686781/9	13:09	75		90		87		97			
CCV 480-686781/18	18:55	92		102		100		92			
CCB 480-686781/19	18:59	108		108		105		94			
CCVL 480-686781/20	19:03	104		105		105		93			
MB 480-685101/1-A	19:32	105		106		105		93			
LCS 480-685101/2-A	19:35	99		104		103		92			
CCV 480-686781/23	19:39	91		102		99		92			
CCB 480-686781/24	19:43	105		106		105		92			
CCVL 480-686781/25	19:46	104		105		105		93			
480-213061-1	19:50	99		104		103		94			
480-213061-2	19:54	96		102		102		93			
480-213061-2 SD	19:57	102		104		104		92			
480-213061-2 PDS	20:01	94		103		102		93			
480-213061-2 MS	20:04	93		102		101		92			
480-213061-2 MSD	20:08	93		102		100		92			
480-213061-3	20:11	96		102		102		92			
480-213061-4	20:15	105		106		105		94			
CCV 480-686781/35	20:23	92		102		100		92			
CCB 480-686781/36	20:27	105		106		105		93			
CCVL 480-686781/37	20:30	105		106		105		93			
IS Name on Instrument											

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1 Analysis Batch No.: 686584

ICP Instrument ID: ICAP2 Start Date: 10/08/2023 End Date: 10/08/2023

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-686584/1	11:53										
ICV 480-686584/5	12:08	90		99		97		100			
ICB 480-686584/6	12:11	100		100		100		101			
ICVL 480-686584/7	12:15	100		101		101		101			
ICSA 480-686584/8	12:19	77		92		89		99			
ICSAB 480-686584/9	12:23	76		91		88		98			
CCV 480-686584/18	14:21	88		98		95		99			
CCB 480-686584/19	14:25	101		101		100		100			
CCVL 480-686584/20	14:29	100		100		99		100			
MB 480-685462/1-A	14:58	100		101		99		98			
LCS 480-685462/2-A	15:02	96		100		98		99			
CCV 480-686584/23	15:05	89		98		96		98			
CCB 480-686584/24	15:09	100		100		100		100			
CCVL 480-686584/25	15:13	100		101		100		99			
CCV 480-686584/35	15:49	88		98		95		96			
CCB 480-686584/36	15:52	101		101		99		97			
CCVL 480-686584/37	15:56	101		102		100		98			
480-213117-7	16:29	92		98		97		97			
CCV 480-686584/47	16:33	90		100		95		97			
CCB 480-686584/48	16:36	101		102		100		97			
CCVL 480-686584/49	16:40	101		102		100		97			
IS Name on Instrument											

Run File: I1100923D

Instrument: ICAP1

Analyst: NG

Data Review: MN 10/10/23

Spikes Ids:7249750(W1), 7249743(W2),7150580(Sn), 7263500(Ag),7313115(Si), 7004677(TCLP), 7313123(S)
Pipette IDs: 1/16/23-(1-11)
Internal Standard: 7341257

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I1100923D	ICIS-7506043	10/9/2023 3:49:35PM	Standard
2	I1100923D	IC-7610998	10/9/2023 3:52:57PM	Standard
3	I1100923D	IC-7538313	10/9/2023 3:56:20PM	Standard
4	I1100923D	IC-7485776	10/9/2023 3:59:34PM	Standard
5	I1100923D	ICV-7538312	10/9/2023 4:17:42PM	QC
6	I1100923D	ICB-7506043	10/9/2023 4:20:53PM	QC
7	I1100923D	ICVL-7610998	10/9/2023 4:24:17PM	QC
8	I1100923D	ICSA-7420389	10/9/2023 4:27:39PM	QC
9	I1100923D	ICSAB-7538391	10/9/2023 4:31:09PM	QC
10	I1100923D	ICEX1	10/9/2023 4:34:39PM	Unknown
11	I1100923D	ICEX2	10/9/2023 4:38:12PM	Unknown
12	I1100923D	ICEX3	10/9/2023 4:41:40PM	Unknown
13	I1100923D	ICEX4	10/9/2023 4:45:09PM	Unknown
14	I1100923D	ICEX5	10/9/2023 4:48:30PM	Unknown
15	I1100923D	CCV-7538313	10/9/2023 4:51:52PM	QC
16	I1100923D	CCB-7506043	10/9/2023 4:55:05PM	QC
17	I1100923D	CCVL-7610998	10/9/2023 5:11:58PM	QC
18	I1100923D	480-212820-A-88-C@50	10/9/2023 5:15:21PM	Unknown
19	I1100923D	480-212820-A-89-C@20	10/9/2023 5:18:44PM	Unknown
20	I1100923D	480-212820-A-90-C@10	10/9/2023 5:22:06PM	Unknown
21	I1100923D	480-212820-A-94-C@10	10/9/2023 5:25:25PM	Unknown
22	I1100923D	480-212820-A-95-G@20	10/9/2023 5:28:47PM	Unknown
23	I1100923D	212820-A-95-H MS@20	10/9/2023 5:32:15PM	Unknown
24	I1100923D	212820-A-95-I MS@20	10/9/2023 5:35:36PM	Unknown
25	I1100923D	480-212820-A-96-C@10	10/9/2023 5:38:57PM	Unknown
26	I1100923D	212820-A-97-C@100	10/9/2023 5:42:18PM	Unknown
27	I1100923D	CCV-7538313	10/9/2023 5:45:38PM	QC
28	I1100923D	CCB-7506043	10/9/2023 5:48:51PM	QC
29	I1100923D	CCVL-7610998	10/9/2023 5:52:15PM	QC
30	I1100923D	212820-A-102-B@100	10/9/2023 5:55:37PM	Unknown
31	I1100923D	212820-A-108-B@10	10/9/2023 5:59:00PM	Unknown
32	I1100923D	480-212820-A-111-B	10/9/2023 6:02:27PM	Unknown
33	I1100923D	212820-A-111-B@10	10/9/2023 6:06:30PM	Unknown
34	I1100923D	212820-A-111-B@500	10/9/2023 6:10:13PM	Unknown
35	I1100923D	212820-A-112-B@10	10/9/2023 6:13:31PM	Unknown
36	I1100923D	212820-A-112-B@20	10/9/2023 6:17:00PM	Unknown
37	I1100923D	rinse	10/9/2023 6:20:22PM	Unknown
38	I1100923D	MB 480-686379/1-A	10/9/2023 6:23:44PM	Unknown
39	I1100923D	CCV-7538313	10/9/2023 6:27:08PM	QC
40	I1100923D	CCB-7506043	10/9/2023 6:30:22PM	QC
41	I1100923D	CCVL-7610998	10/9/2023 6:33:46PM	QC
42	I1100923D	LCSSRM 480-686379/2-	10/9/2023 6:37:08PM	Unknown

43	I1100923D	480-213382-A-1-A	10/9/2023	6:40:29PM	Unknown
44	I1100923D	480-213382-A-2-A	10/9/2023	6:44:00PM	Unknown
45	I1100923D	480-213382-B-3-D	10/9/2023	6:47:26PM	Unknown
46	I1100923D	480-213382-B-3-DSD@5	10/9/2023	6:50:51PM	Unknown
47	I1100923D	480-213382-B-3-DPDS	10/9/2023	6:54:08PM	Unknown
48	I1100923D	480-213382-B-3-E MS	10/9/2023	6:57:28PM	Unknown
49	I1100923D	480-213382-B-3-F MSD	10/9/2023	7:00:51PM	Unknown
50	I1100923D	480-213382-A-4-A	10/9/2023	7:04:12PM	Unknown
51	I1100923D	CCV-7538313	10/9/2023	7:07:44PM	QC
52	I1100923D	CCB-7506043	10/9/2023	7:10:57PM	QC
53	I1100923D	CCVL-7610998	10/9/2023	7:14:21PM	QC
54	I1100923D	480-213382-A-5-A	10/9/2023	7:17:44PM	Unknown
55	I1100923D	480-213382-B-6-B	10/9/2023	7:21:13PM	Unknown
56	I1100923D	480-213382-A-7-A	10/9/2023	7:24:50PM	Unknown
57	I1100923D	480-213382-A-8-A	10/9/2023	7:28:28PM	Unknown
58	I1100923D	480-213382-A-9-A	10/9/2023	7:31:49PM	Unknown
59	I1100923D	480-213382-A-10-A	10/9/2023	7:35:15PM	Unknown
60	I1100923D	480-213382-B-11-B	10/9/2023	7:38:37PM	Unknown
61	I1100923D	480-213382-B-12-B	10/9/2023	7:42:03PM	Unknown
62	I1100923D	480-213382-B-13-B	10/9/2023	7:45:25PM	Unknown
63	I1100923D	CCV-7538313	10/9/2023	7:48:46PM	QC
64	I1100923D	CCB-7506043	10/9/2023	7:52:00PM	QC
65	I1100923D	CCVL-7610998	10/9/2023	7:55:23PM	QC
66	I1100923D	480-213382-A-14-A	10/9/2023	7:58:45PM	Unknown
67	I1100923D	480-213382-B-15-B	10/9/2023	8:02:07PM	Unknown
68	I1100923D	480-213382-A-16-A	10/9/2023	8:05:39PM	Unknown
69	I1100923D	480-213382-A-17-A	10/9/2023	8:09:11PM	Unknown
70	I1100923D	480-213382-A-18-A	10/9/2023	8:12:48PM	Unknown
71	I1100923D	480-213382-A-19-A	10/9/2023	8:16:24PM	Unknown
72	I1100923D	480-213382-A-20-A	10/9/2023	8:19:56PM	Unknown
73	I1100923D	rinse	10/9/2023	8:23:27PM	Unknown
74	I1100923D	MB 480-686380/1-A	10/9/2023	8:26:50PM	Unknown
75	I1100923D	CCV-7538313	10/9/2023	8:30:15PM	QC
76	I1100923D	CCB-7506043	10/9/2023	8:33:29PM	QC
77	I1100923D	CCVL-7610998	10/9/2023	8:36:53PM	QC
78	I1100923D	LCSSRM 480-686380/2-	10/9/2023	8:40:15PM	Unknown
79	I1100923D	480-213382-A-21-A	10/9/2023	8:43:36PM	Unknown
80	I1100923D	213382-A-21-ASD@5	10/9/2023	8:47:01PM	Unknown
81	I1100923D	480-213382-A-21-APDS	10/9/2023	8:50:25PM	Unknown
82	I1100923D	480-213382-A-21-B MS	10/9/2023	8:53:56PM	Unknown
83	I1100923D	480-213382-A-21-C MS	10/9/2023	8:57:21PM	Unknown
84	I1100923D	480-213382-A-22-A	10/9/2023	9:00:52PM	Unknown
85	I1100923D	480-213382-A-23-A	10/9/2023	9:04:16PM	Unknown
86	I1100923D	480-213382-A-24-B	10/9/2023	9:07:40PM	Unknown
87	I1100923D	CCV-7538313	10/9/2023	9:11:03PM	QC
88	I1100923D	CCB-7506043	10/9/2023	9:14:16PM	QC
89	I1100923D	CCVL-7610998	10/9/2023	9:17:41PM	QC
90	I1100923D	480-213386-C-1-A	10/9/2023	9:21:04PM	Unknown
91	I1100923D	460-289510-A-1-F	10/9/2023	9:24:42PM	Unknown
92	I1100923D	460-289510-B-2-B	10/9/2023	9:28:00PM	Unknown
93	I1100923D	460-289510-B-3-B	10/9/2023	9:31:19PM	Unknown
94	I1100923D	rinse	10/9/2023	9:34:49PM	Unknown

95	I1100923D	480-212855-A-1-B	10/9/2023	9:38:12PM	Unknown
96	I1100923D	480-212855-A-1-B@5	10/9/2023	9:41:45PM	Unknown
97	I1100923D	480-212960-A-1-B@5	10/9/2023	9:45:06PM	Unknown
98	I1100923D	480-212960-A-2-D@5	10/9/2023	9:48:22PM	Unknown
99	I1100923D	CCV-7538313	10/9/2023	9:51:58PM	QC
100	I1100923D	CCB-7506043	10/9/2023	9:55:10PM	QC
101	I1100923D	CCVL-7610998	10/9/2023	9:58:35PM	QC
102	I1100923D	480-212960-A-2-D@50	10/9/2023	10:01:57PM	Unknown
103	I1100923D	212960-A-2-DSD@25	10/9/2023	10:05:15PM	Unknown
104	I1100923D	212960-A-2-DSD@250	10/9/2023	10:08:31PM	Unknown
105	I1100923D	212960-A-2-DPDS@5	10/9/2023	10:11:52PM	Unknown
106	I1100923D	212960-A-2-DPDS@50	10/9/2023	10:15:28PM	Unknown
107	I1100923D	212960-A-2-E MS@5	10/9/2023	10:18:45PM	Unknown
108	I1100923D	212960-A-2-E MS@50	10/9/2023	10:22:21PM	Unknown
109	I1100923D	212960-A-2-F MSD@5	10/9/2023	10:25:39PM	Unknown
110	I1100923D	212960-A-2-F MSD@50	10/9/2023	10:29:14PM	Unknown
111	I1100923D	CCV-7538313	10/9/2023	10:32:33PM	QC
112	I1100923D	CCB-7506043	10/9/2023	10:35:45PM	QC
113	I1100923D	CCVL-7610998	10/9/2023	10:39:08PM	QC
114	I1100923D	480-212960-A-3-B@10	10/9/2023	10:42:31PM	Unknown
115	I1100923D	480-212960-A-5-B@5	10/9/2023	10:45:53PM	Unknown
116	I1100923D	480-212960-A-5-B@100	10/9/2023	10:49:29PM	Unknown
117	I1100923D	480-212960-A-22-B@5	10/9/2023	10:52:47PM	Unknown
118	I1100923D	480-212960-A-40-B@10	10/9/2023	10:56:03PM	Unknown
119	I1100923D	rinse	10/9/2023	10:59:21PM	Unknown
120	I1100923D	MB 480-684696/1-A	10/9/2023	11:02:44PM	Unknown
121	I1100923D	LCS 480-684696/2-A	10/9/2023	11:06:08PM	Unknown
122	I1100923D	480-212925-C-1-D	10/9/2023	11:09:21PM	Unknown
123	I1100923D	CCV-7538313	10/9/2023	11:12:44PM	QC
124	I1100923D	CCB-7506043	10/9/2023	11:15:58PM	QC
125	I1100923D	CCVL-7610998	10/9/2023	11:19:22PM	QC
126	I1100923D	480-212925-C-2-B	10/9/2023	11:22:43PM	Unknown
127	I1100923D	480-212925-C-2-BSD@5	10/9/2023	11:26:07PM	Unknown
128	I1100923D	480-212925-C-2-BPDS	10/9/2023	11:29:35PM	Unknown
129	I1100923D	480-212925-C-2-C MS	10/9/2023	11:32:48PM	Unknown
130	I1100923D	480-212925-C-2-D MSD	10/9/2023	11:36:02PM	Unknown
131	I1100923D	480-212925-C-4-B	10/9/2023	11:39:15PM	Unknown
132	I1100923D	480-212925-C-5-B	10/9/2023	11:42:39PM	Unknown
133	I1100923D	480-212925-C-6-B	10/9/2023	11:46:09PM	Unknown
134	I1100923D	480-212925-D-7-B	10/9/2023	11:49:33PM	Unknown
135	I1100923D	CCV-7538313	10/9/2023	11:52:52PM	QC
136	I1100923D	CCB-7506043	10/9/2023	11:56:05PM	QC
137	I1100923D	CCVL-7610998	10/9/2023	11:59:29PM	QC
138	I1100923D	480-212925-D-8-B	10/10/2023	12:02:50AM	Unknown
139	I1100923D	480-212925-C-9-B	10/10/2023	12:06:09AM	Unknown
140	I1100923D	480-212925-C-10-B	10/10/2023	12:09:32AM	Unknown
141	I1100923D	480-212925-C-11-B	10/10/2023	12:12:55AM	Unknown
142	I1100923D	480-212925-C-12-B	10/10/2023	12:16:22AM	Unknown
143	I1100923D	480-212925-C-13-B	10/10/2023	12:19:44AM	Unknown
144	I1100923D	480-212925-D-14-B	10/10/2023	12:23:08AM	Unknown
145	I1100923D	480-212925-C-15-B	10/10/2023	12:26:26AM	Unknown
146	I1100923D	480-212925-C-16-B	10/10/2023	12:29:45AM	Unknown

147	I1100923D	CCV-7538313	10/10/2023	12:33:09AM	QC
148	I1100923D	CCB-7506043	10/10/2023	12:36:22AM	QC
149	I1100923D	CCVL-7610998	10/10/2023	12:39:45AM	QC
150	I1100923D	480-212925-C-17-B	10/10/2023	12:43:07AM	Unknown
151	I1100923D	480-212984-A-2-A	10/10/2023	12:46:30AM	Unknown
152	I1100923D	480-212984-A-4-A	10/10/2023	12:49:47AM	Unknown
153	I1100923D	480-212984-A-6-A	10/10/2023	12:53:04AM	Unknown
154	I1100923D	480-212984-A-8-A	10/10/2023	12:56:21AM	Unknown
155	I1100923D	rinse	10/10/2023	12:59:44AM	Unknown
156	I1100923D	480-213043-A-1-A@5	10/10/2023	1:03:08AM	Unknown
157	I1100923D	480-213043-A-2-A@10	10/10/2023	1:06:45AM	Unknown
158	I1100923D	480-213043-A-2-A@100	10/10/2023	1:10:18AM	Unknown
159	I1100923D	CCV-7538313	10/10/2023	1:13:38AM	QC
160	I1100923D	CCB-7506043	10/10/2023	1:16:50AM	QC
161	I1100923D	CCVL-7610998	10/10/2023	1:20:15AM	QC
162	I1100923D	480-213043-A-3-A@5	10/10/2023	1:23:37AM	Unknown
163	I1100923D	480-213043-A-3-A@100	10/10/2023	1:27:25AM	Unknown
164	I1100923D	480-213043-A-6@10	10/10/2023	1:30:43AM	Unknown
165	I1100923D	480-213043-A-7-A@5	10/10/2023	1:34:12AM	Unknown
166	I1100923D	480-213043-A-7-A@20	10/10/2023	1:37:42AM	Unknown
167	I1100923D	rinse	10/10/2023	1:40:59AM	Unknown
168	I1100923D	MB 480-685286/1-A	10/10/2023	1:44:22AM	Unknown
169	I1100923D	LCS 480-685286/2-A	10/10/2023	1:47:45AM	Unknown
170	I1100923D	480-213088-C-1-A	10/10/2023	1:50:58AM	Unknown
171	I1100923D	CCV-7538313	10/10/2023	1:54:28AM	QC
172	I1100923D	CCB-7506043	10/10/2023	1:57:41AM	QC
173	I1100923D	CCVL-7610998	10/10/2023	2:01:05AM	QC
174	I1100923D	480-213088-C-1-A	10/10/2023	2:04:27AM	Unknown
175	I1100923D	480-213088-C-2-A	10/10/2023	2:07:54AM	Unknown
176	I1100923D	480-213088-C-3-A	10/10/2023	2:11:22AM	Unknown
177	I1100923D	480-213088-C-4-A	10/10/2023	2:14:45AM	Unknown
178	I1100923D	480-213088-C-4-ASD@5	10/10/2023	2:18:05AM	Unknown
179	I1100923D	480-213088-C-4-APDS	10/10/2023	2:21:23AM	Unknown
180	I1100923D	480-213088-C-4-B MS	10/10/2023	2:24:44AM	Unknown
181	I1100923D	480-213088-C-4-C MSD	10/10/2023	2:28:02AM	Unknown
182	I1100923D	480-213088-C-5-A	10/10/2023	2:31:20AM	Unknown
183	I1100923D	CCV-7538313	10/10/2023	2:34:44AM	QC
184	I1100923D	CCB-7506043	10/10/2023	2:37:57AM	QC
185	I1100923D	CCVL-7610998	10/10/2023	2:41:21AM	QC
186	I1100923D	480-213098-C-1-A	10/10/2023	2:44:44AM	Unknown
187	I1100923D	480-213109-B-1-A	10/10/2023	2:48:05AM	Unknown
188	I1100923D	480-213109-B-1-A@5	10/10/2023	2:51:51AM	Unknown
189	I1100923D	480-213109-B-2-A	10/10/2023	2:55:20AM	Unknown
190	I1100923D	480-213109-B-2-A@5	10/10/2023	2:59:05AM	Unknown
191	I1100923D	480-213109-B-3-A	10/10/2023	3:02:33AM	Unknown
192	I1100923D	480-213109-B-3-A@20	10/10/2023	3:06:28AM	Unknown
193	I1100923D	480-213109-B-4-A	10/10/2023	3:09:58AM	Unknown
194	I1100923D	480-213109-B-4-A@20	10/10/2023	3:13:48AM	Unknown
195	I1100923D	CCV-7538313	10/10/2023	3:17:19AM	QC
196	I1100923D	CCB-7506043	10/10/2023	3:20:32AM	QC
197	I1100923D	CCVL-7610998	10/10/2023	3:23:54AM	QC
198	I1100923D	480-213109-B-5-A	10/10/2023	3:27:15AM	Unknown

199	I1100923D	480-213109-B-5-A@20	10/10/2023	3:31:06AM	Unknown
200	I1100923D	480-213109-B-6-A	10/10/2023	3:34:31AM	Unknown
201	I1100923D	480-213109-B-6-A@10	10/10/2023	3:38:23AM	Unknown
202	I1100923D	480-213109-B-7-A	10/10/2023	3:41:52AM	Unknown
203	I1100923D	480-213109-B-7-A@10	10/10/2023	3:45:37AM	Unknown
204	I1100923D	480-213109-B-8-A	10/10/2023	3:49:07AM	Unknown
205	I1100923D	480-213112-A-1-A	10/10/2023	3:52:52AM	Unknown
206	I1100923D	480-213112-A-1-B MS	10/10/2023	3:56:37AM	Unknown
207	I1100923D	CCV-7538313	10/10/2023	4:00:19AM	QC
208	I1100923D	CCB-7506043	10/10/2023	4:03:32AM	QC
209	I1100923D	CCVL-7610998	10/10/2023	4:06:55AM	QC
210	I1100923D	480-213112-A-1-C MSD	10/10/2023	4:10:18AM	Unknown
211	I1100923D	480-213112-A-2-A	10/10/2023	4:13:59AM	Unknown
212	I1100923D	rinse	10/10/2023	4:17:44AM	Unknown
213	I1100923D	MB 480-685605/1-A	10/10/2023	4:21:07AM	Unknown
214	I1100923D	LCSSRM 480-685605/2-	10/10/2023	4:24:31AM	Unknown
215	I1100923D	480-213025-A-8-B	10/10/2023	4:27:50AM	Unknown
216	I1100923D	480-213025-A-9-B	10/10/2023	4:31:25AM	Unknown
217	I1100923D	480-213025-A-10-B	10/10/2023	4:34:54AM	Unknown
218	I1100923D	480-213025-A-11-B	10/10/2023	4:38:24AM	Unknown
219	I1100923D	CCV-7538313	10/10/2023	4:42:03AM	QC
220	I1100923D	CCB-7506043	10/10/2023	4:45:16AM	QC
221	I1100923D	CCVL-7610998	10/10/2023	4:48:40AM	QC
222	I1100923D	213025-A-11-BSD@5	10/10/2023	4:52:02AM	Unknown
223	I1100923D	480-213025-A-11-BPDS	10/10/2023	4:55:20AM	Unknown
224	I1100923D	480-213025-A-11-C MS	10/10/2023	4:58:57AM	Unknown
225	I1100923D	480-213025-A-11-D MS	10/10/2023	5:02:33AM	Unknown
226	I1100923D	480-213029-D-1-B	10/10/2023	5:06:11AM	Unknown
227	I1100923D	480-213029-E-2-B	10/10/2023	5:09:46AM	Unknown
228	I1100923D	rinse	10/10/2023	5:13:16AM	Unknown
229	I1100923D	rinse	10/10/2023	5:16:40AM	Unknown
230	I1100923D	rinse	10/10/2023	5:20:02AM	Unknown
231	I1100923D	CCV-7538313	10/10/2023	5:23:28AM	QC
232	I1100923D	CCB-7506043	10/10/2023	5:26:41AM	QC
233	I1100923D	CCVL-7610998	10/10/2023	5:30:05AM	QC
234	I1100923D	CCV-7538313	10/10/2023	5:33:27AM	QC
235	I1100923D	CCB-7506043	10/10/2023	5:36:40AM	QC

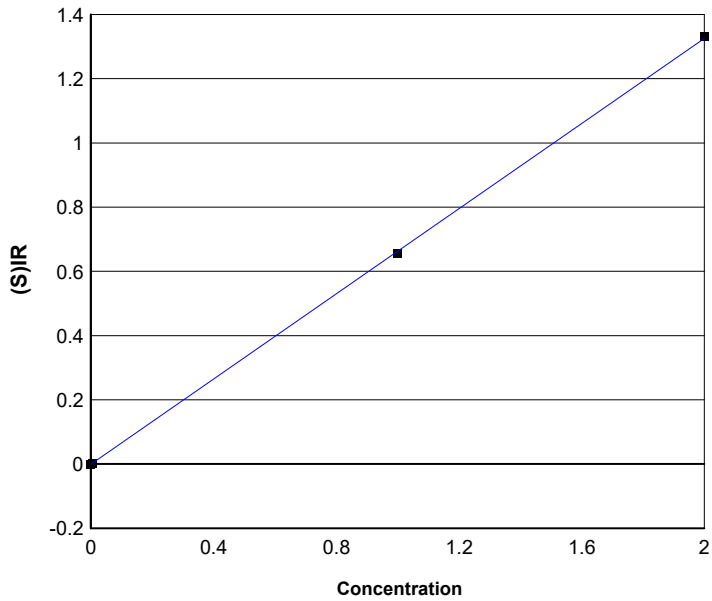
I1100923D

Author: NG

Published: 10/10/2023 9:14:05AM

Instrument Name: ETA_ICAP1 Serial Number: 20094603

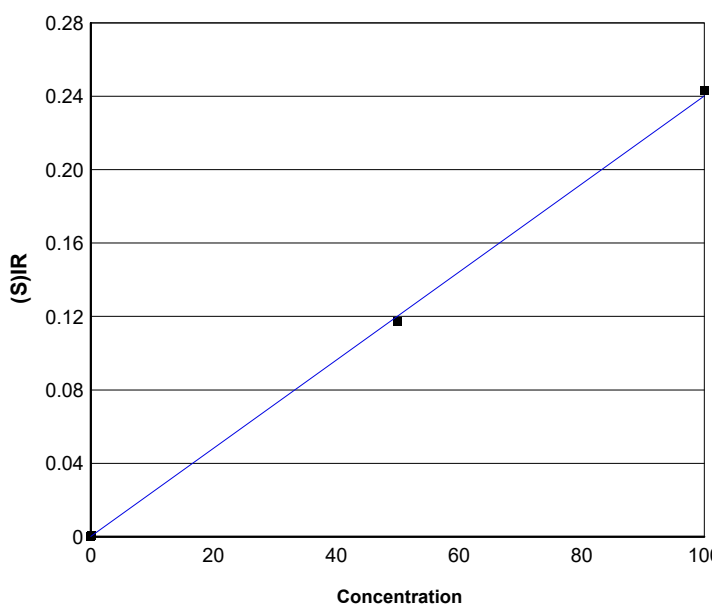
Method Name: ICAP1 Updated OCT 2023 (6)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00044603
A1 (Gain):	0.66290
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

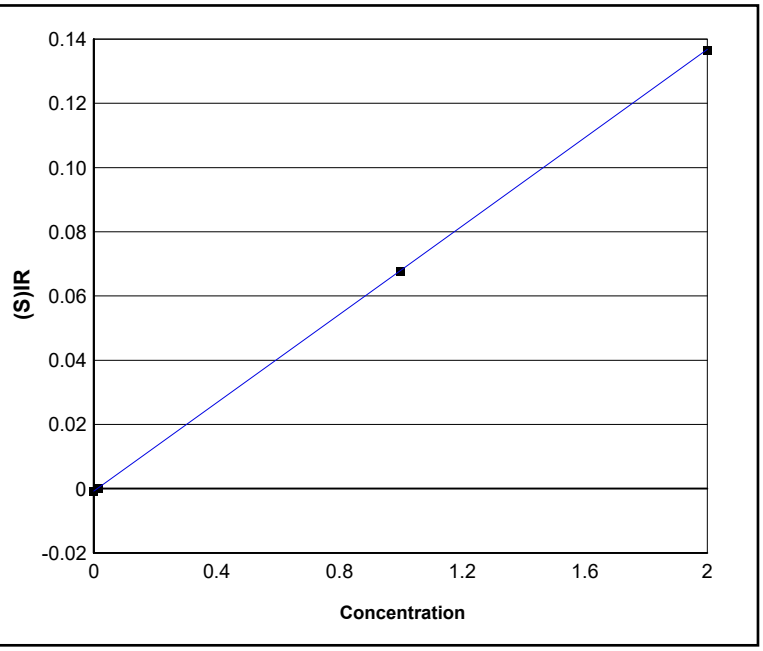
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000004614	0.0000004614	0.00000	-0.00044572	0.000069806	1
IC-7610998	0.0060000	0.0055621	-0.00043792	-7.2987	0.0032411	0.00011812	1
IC-7538313	1.0000	0.99175	-0.0082480	-0.82480	0.65705	0.0015778	1
IC-7485776	2.0000	2.0087	0.0086858	0.43429	1.3312	0.021233	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	0.00020433
A1 (Gain):	0.0023993
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

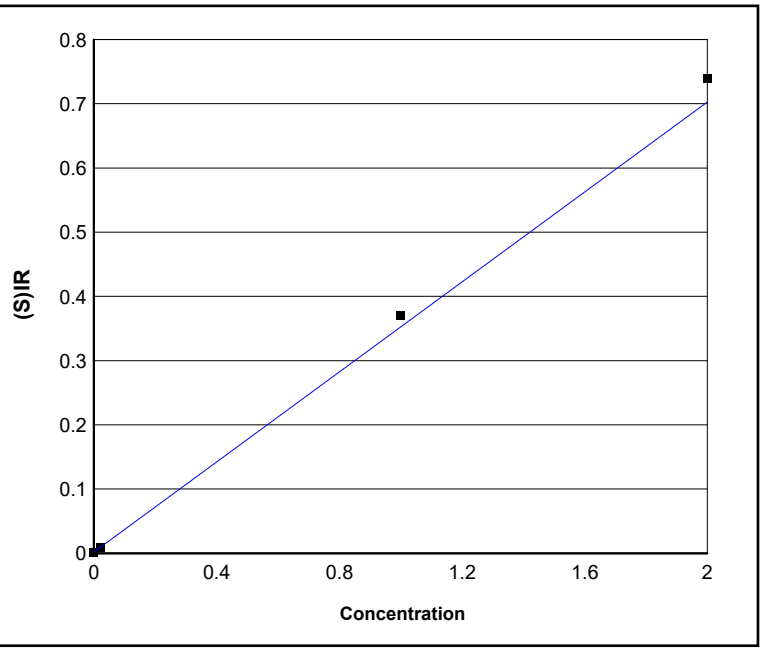
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.000014703	0.000014703	0.00000	0.00020436	0.000063367	1
IC-7610998	0.20000	0.18772	-0.012279	-6.1396	0.00065472	0.000046716	1
IC-7538313	50.000	48.776	-1.2240	-2.4480	0.11723	0.0023382	1
IC-7485776	100.00	101.24	1.2363	1.2363	0.24310	0.0033060	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00079046
A1 (Gain):	0.068801
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

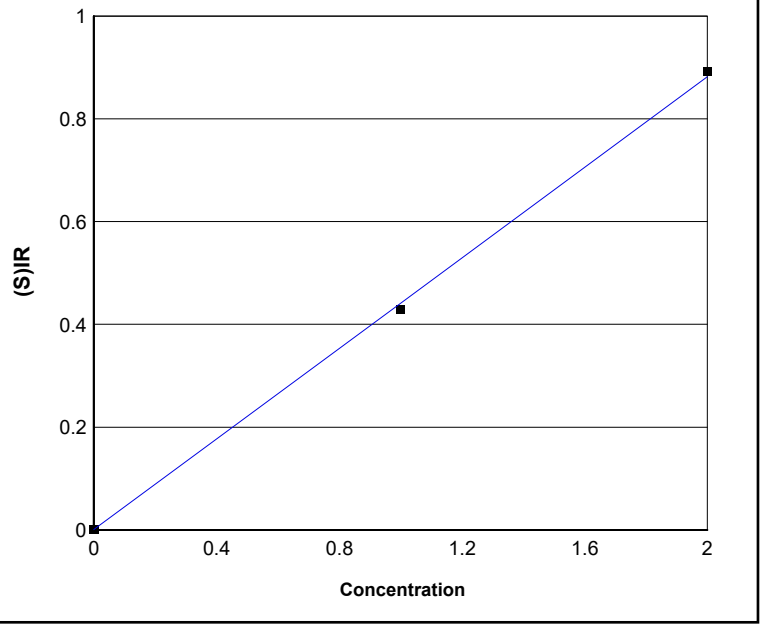
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000020407	0.0000020407	0.00000	-0.00079032	0.00015502	1
IC-7610998	0.015000	0.012960	-0.0020405	-13.603	0.00010079	0.000036330	1
IC-7538313	1.0000	0.99791	-0.0020857	-0.20857	0.067494	0.000028109	1
IC-7485776	2.0000	2.0041	0.0041365	0.20683	0.13635	0.000025250	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0019398
A1 (Gain):	0.35041
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

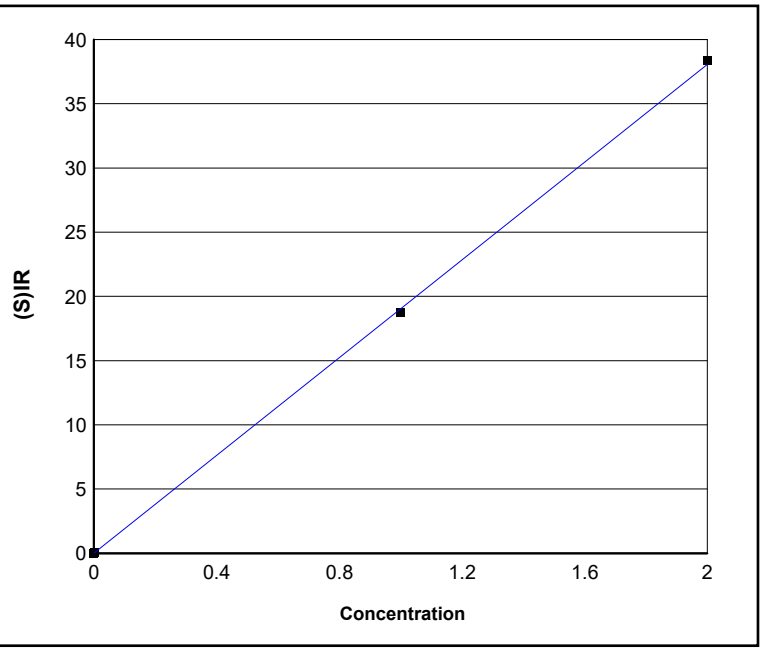
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000005659	0.0000005659	0.00000	0.0019400	0.000043199	1
IC-7610998	0.020000	0.019428	-0.00057172	-2.8586	0.0089302	0.000073231	1
IC-7538313	1.0000	1.0000	0.000022271	0.0022271	0.37062	0.00026187	1
IC-7485776	2.0000	2.0005	0.00053529	0.026764	0.73946	0.00019843	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	0.00062091
A1 (Gain):	0.44060
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

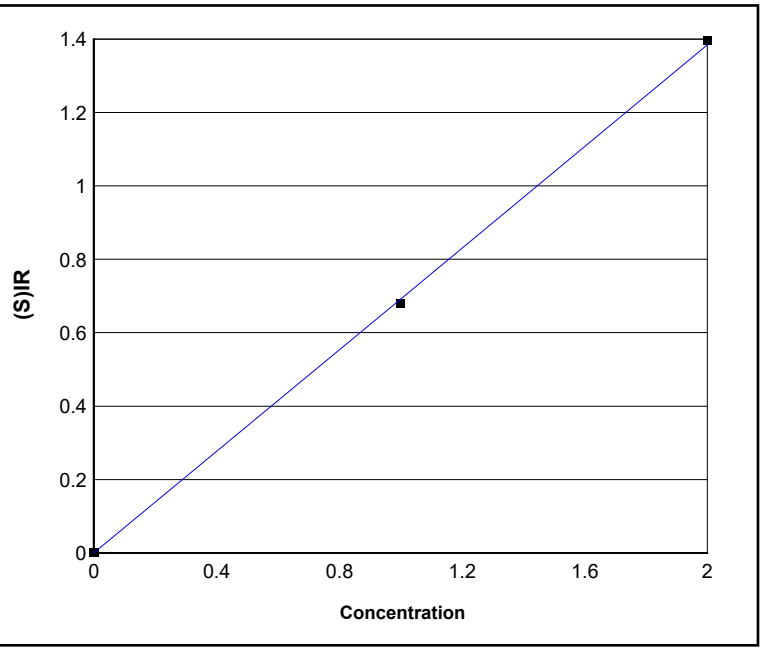
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000356	-0.0000000356	0.00000	0.00062089	0.00011810	1
IC-7610998	0.0020000	0.0020611	0.000061059	3.0529	0.0015290	0.00021168	1
IC-7538313	1.0000	0.97456	-0.025443	-2.5443	0.43001	0.0072267	1
IC-7485776	2.0000	2.0254	0.025382	1.2691	0.89300	0.0094382	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.011469
A1 (Gain):	19.023
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

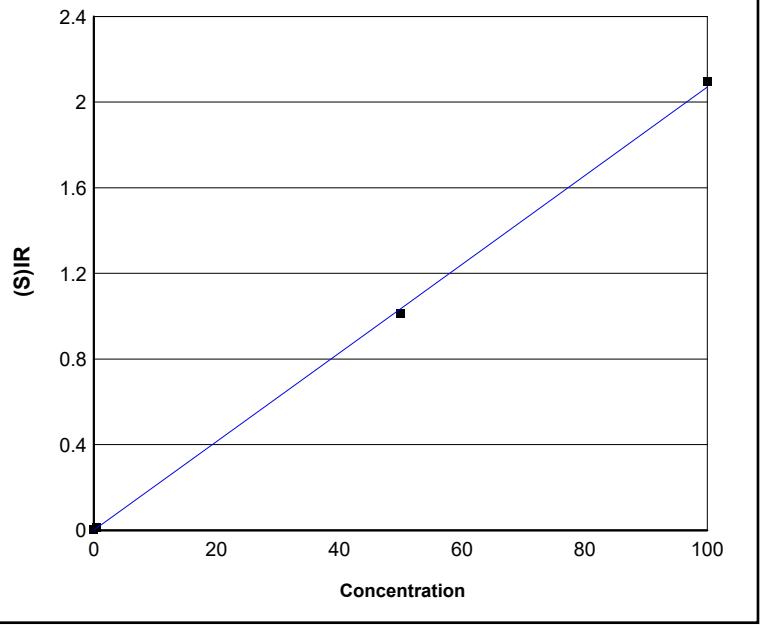
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000392	0.0000000392	0.00000	0.011470	0.00040763	1
IC-7610998	0.0020000	0.0019759	-0.000024087	-1.2043	0.049057	0.0016302	1
IC-7538313	1.0000	0.98482	-0.015180	-1.5180	18.746	0.015846	1
IC-7485776	2.0000	2.0152	0.015204	0.76018	38.347	0.36379	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.000058089
A1 (Gain):	0.69197
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

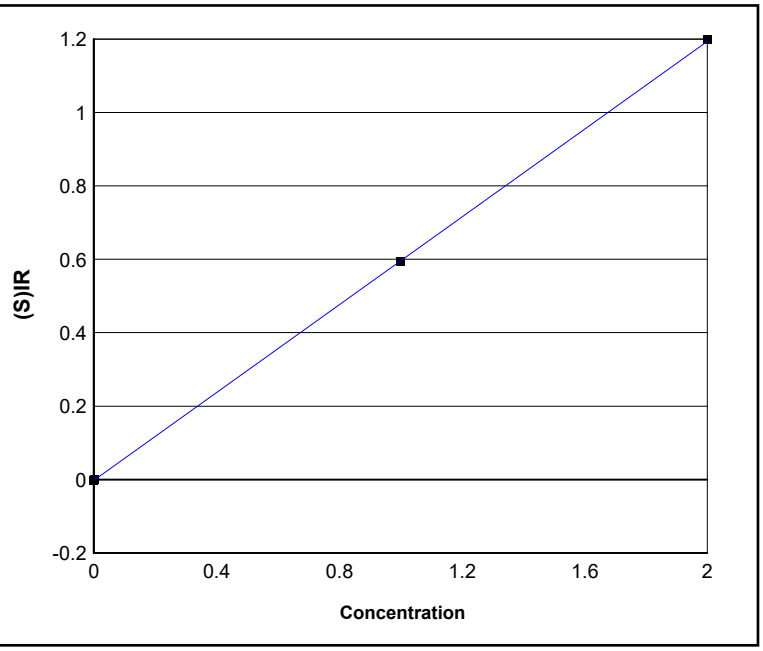
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000001387	0.0000001387	0.00000	0.000058185	0.000073075	1
IC-7610998	0.0020000	0.0018803	-0.00011966	-5.9828	0.0013592	0.000038759	1
IC-7538313	1.0000	0.98082	-0.019183	-1.9183	0.67875	0.0091792	1
IC-7485776	2.0000	2.0193	0.019303	0.96514	1.3974	0.014409	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	0.0014942
A1 (Gain):	0.020689
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

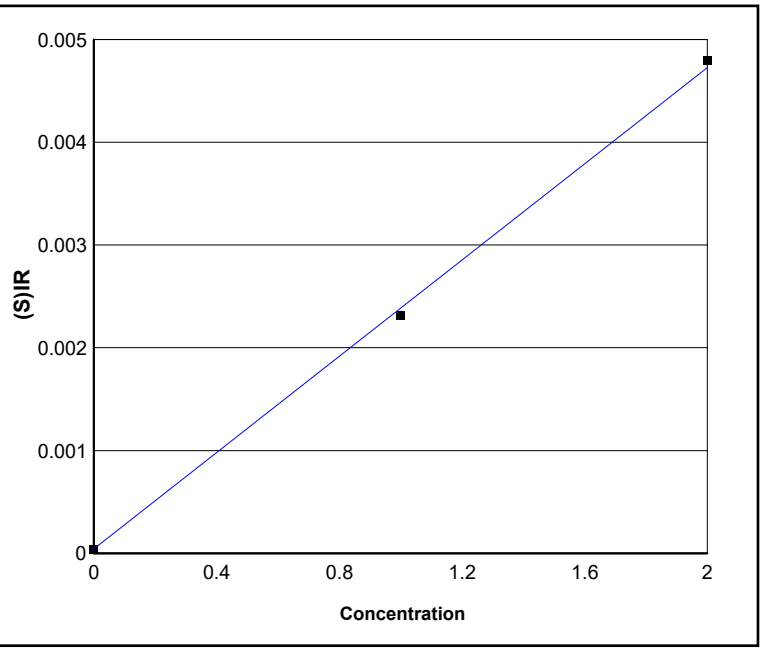
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.000019621	0.000019621	0.00000	0.0014946	0.000097588	1
IC-7610998	0.50000	0.48611	-0.013894	-2.7787	0.011551	0.00016825	1
IC-7538313	50.000	48.841	-1.1593	-2.3187	1.0120	0.012982	1
IC-7485776	100.00	101.17	1.1732	1.1732	2.0947	0.013191	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0022180
A1 (Gain):	0.59790
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

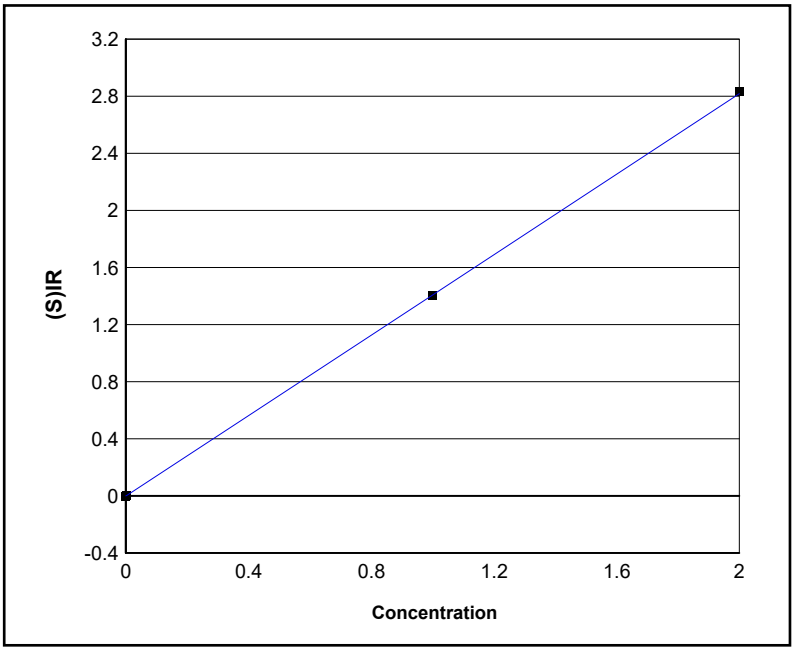
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000003411	-0.0000003411	0.00000	-0.0022182	0.000059168	1
IC-7610998	0.0020000	0.0023468	0.00034677	17.338	-0.00079691	0.00031822	1
IC-7538313	1.0000	0.99465	-0.0053460	-0.53460	0.59369	0.000097174	1
IC-7485776	2.0000	2.0050	0.0049947	0.24973	1.1990	0.0035970	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.9998
A0 (Offset):	0.00004278
A1 (Gain):	0.002342
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

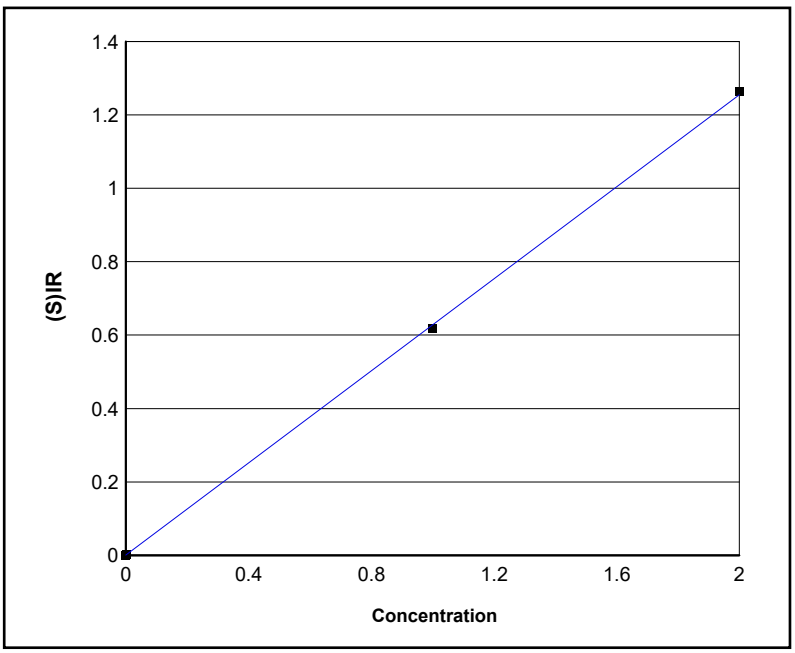
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000	0.00001533	0.00001533	0.0000	0.00004282	0.00006294	1
IC-7485776	2.000	2.031	0.03067	1.533	0.004799	0.00003779	1
IC-7538313	1.000	0.9693	-0.03067	-3.067	0.002313	0.00003141	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0010434
A1 (Gain):	1.4091
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

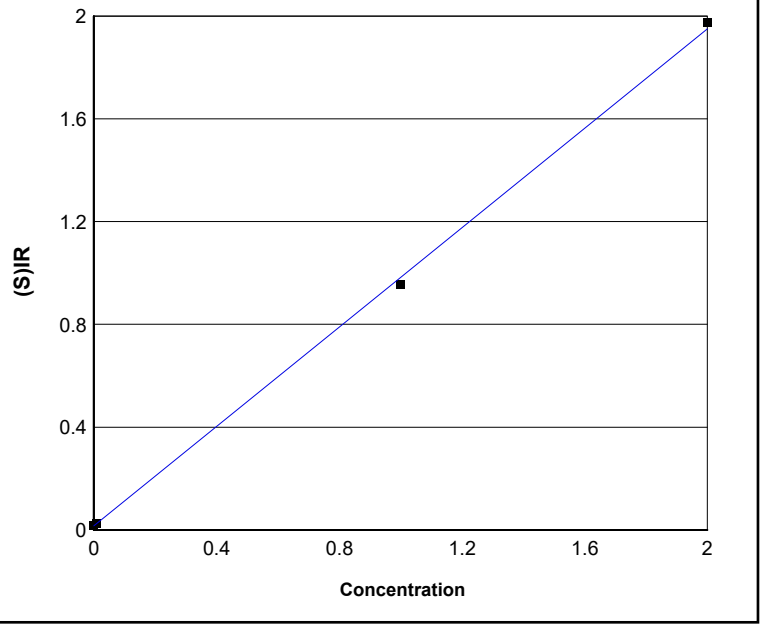
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000261	0.0000000261	0.00000	-0.0010434	0.000045840	1
IC-7610998	0.0040000	0.0039834	-0.000016560	-0.41401	0.0045838	0.00014364	1
IC-7538313	1.0000	0.99524	-0.0047623	-0.47623	1.4044	0.00012096	1
IC-7485776	2.0000	2.0048	0.0047789	0.23895	2.8300	0.0060375	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00051165
A1 (Gain):	0.62733
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

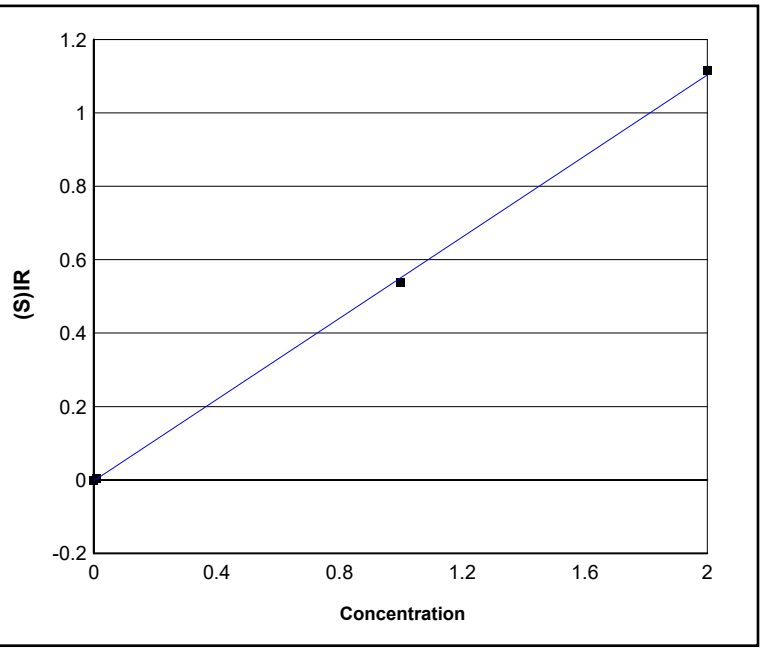
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000098	-0.0000000098	0.00000	0.00051164	0.000076606	1
IC-7610998	0.0040000	0.0040392	0.000039231	0.98076	0.0030458	0.000015629	1
IC-7538313	1.0000	0.98533	-0.014665	-1.4665	0.61841	0.0011113	1
IC-7485776	2.0000	2.0146	0.014626	0.73130	1.2639	0.021638	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99980
A0 (Offset):	0.016190
A1 (Gain):	0.96723
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

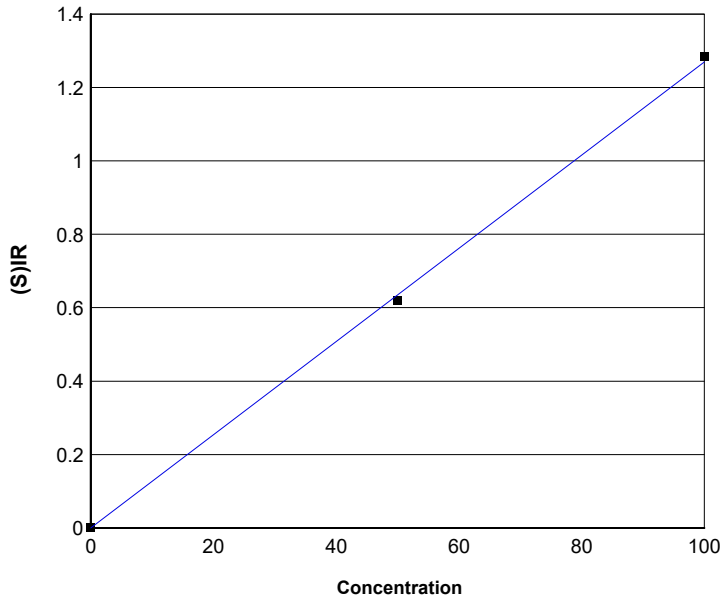
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000005639	-0.0000005639	0.00000	0.016190	0.0000022803	1
IC-7610998	0.010000	0.010708	0.00070836	7.0836	0.026548	0.00043063	1
IC-7538313	1.0000	0.97181	-0.028188	-2.8188	0.95615	0.0035946	1
IC-7485776	2.0000	2.0275	0.027480	1.3740	1.9772	0.019044	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	-0.0020335
A1 (Gain):	0.55269
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

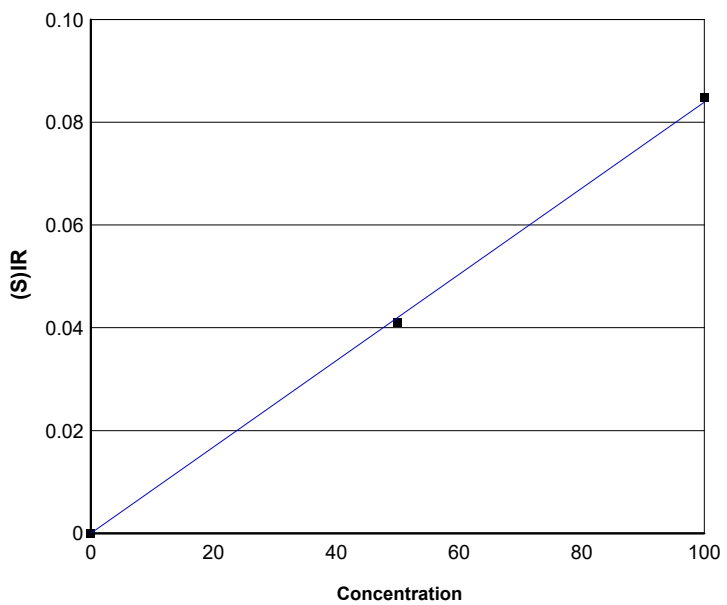
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000006107	0.0000006107	0.00000	-0.0020332	0.00014221	1
IC-7610998	0.010000	0.0095026	-0.00049738	-4.9738	0.0032185	0.00033094	1
IC-7538313	1.0000	0.97683	-0.023167	-2.3167	0.53786	0.0014990	1
IC-7485776	2.0000	2.0237	0.023664	1.1832	1.1164	0.010269	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	0.00021775
A1 (Gain):	0.012696
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

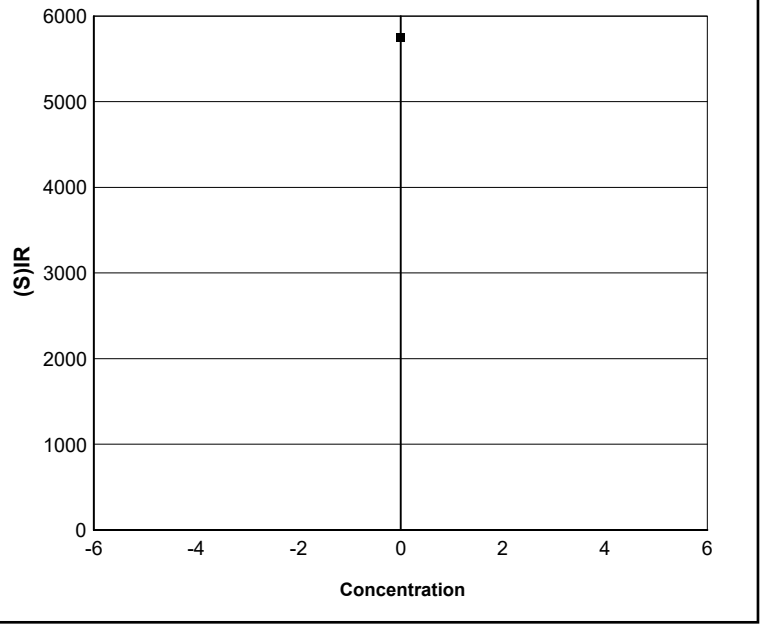
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.000010745	0.000010745	0.00000	0.00021789	0.000058654	1
IC-7610998	0.050000	0.039820	-0.010180	-20.359	0.00072325	0.000062938	1
IC-7538313	50.025	48.883	-1.1417	-2.2823	0.62081	0.0092740	1
IC-7485776	100.00	101.15	1.1519	1.1519	1.2844	0.013717	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.000032830
A1 (Gain):	0.00083905
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

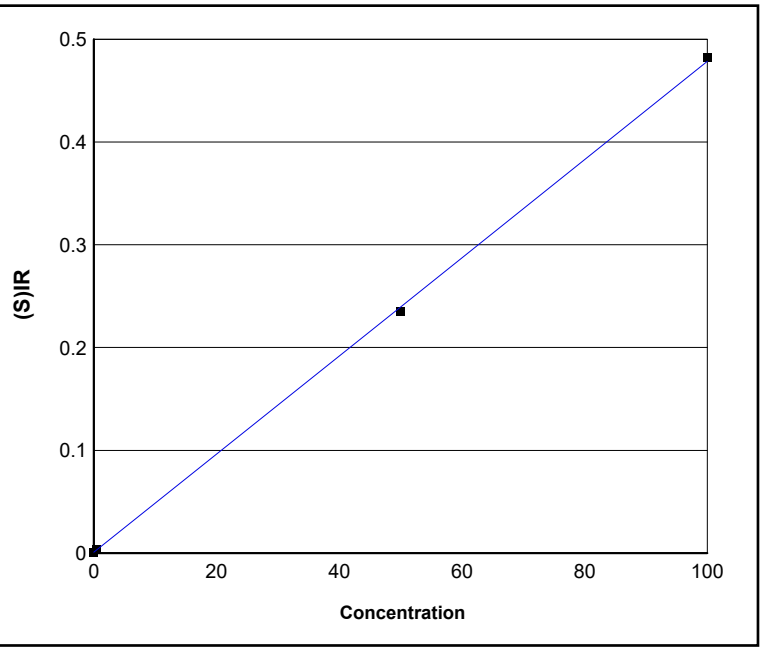
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.000029209	0.000029209	0.00000	0.000032855	0.000064797	1
IC-7610998	0.050000	0.021337	-0.028663	-57.326	0.000050733	0.000048401	1
IC-7538313	50.025	48.902	-1.1227	-2.2442	0.041065	0.00077669	1
IC-7485776	100.00	101.15	1.1513	1.1513	0.084904	0.00071192	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 3:52:53PM
Date of Fit:	10/9/2023 3:52:53PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

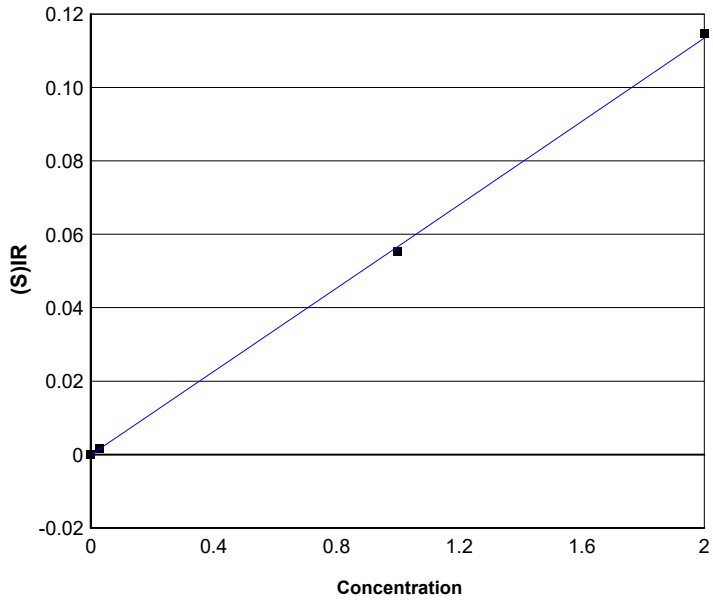
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000			0.0000	5,744	15.66	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.00084004
A1 (Gain):	0.0047767
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

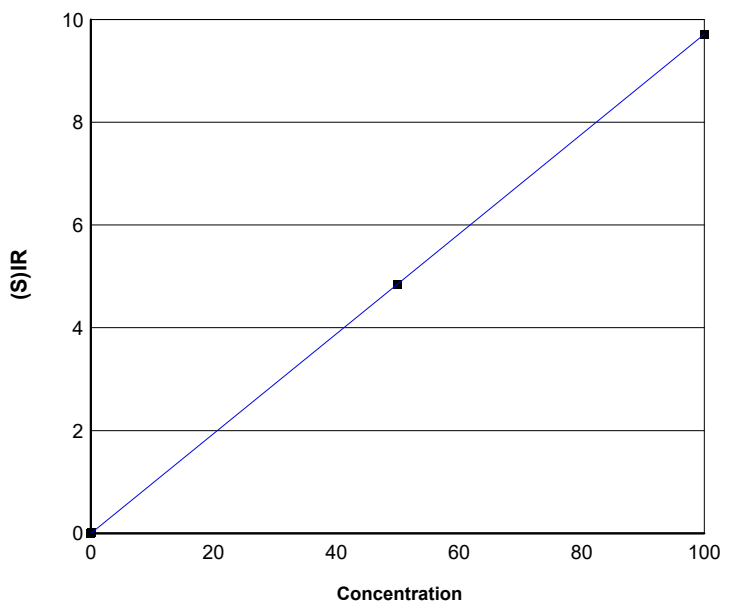
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000003983	0.0000003983	0.00000	0.00084005	0.00013042	1
IC-7610998	0.50000	0.50401	0.0040147	0.80294	0.0032476	0.000079249	1
IC-7538313	50.000	49.121	-0.87858	-1.7572	0.23548	0.0013304	1
IC-7485776	100.00	100.87	0.87456	0.87456	0.48269	0.0027453	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.00011243
A1 (Gain):	0.056787
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

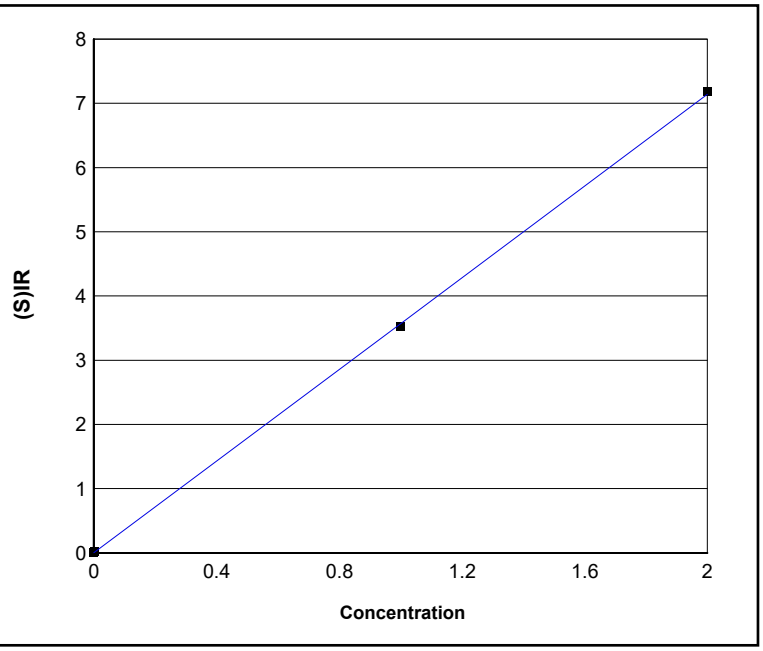
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000014955	-0.0000014955	0.00000	-0.00011251	0.00010020	1
IC-7610998	0.030000	0.031855	0.0018553	6.1842	0.0016965	0.00012764	1
IC-7538313	1.0000	0.97787	-0.022129	-2.2129	0.055418	0.00034644	1
IC-7485776	2.0000	2.0203	0.020274	1.0137	0.11461	0.00052965	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0012428
A1 (Gain):	0.097098
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

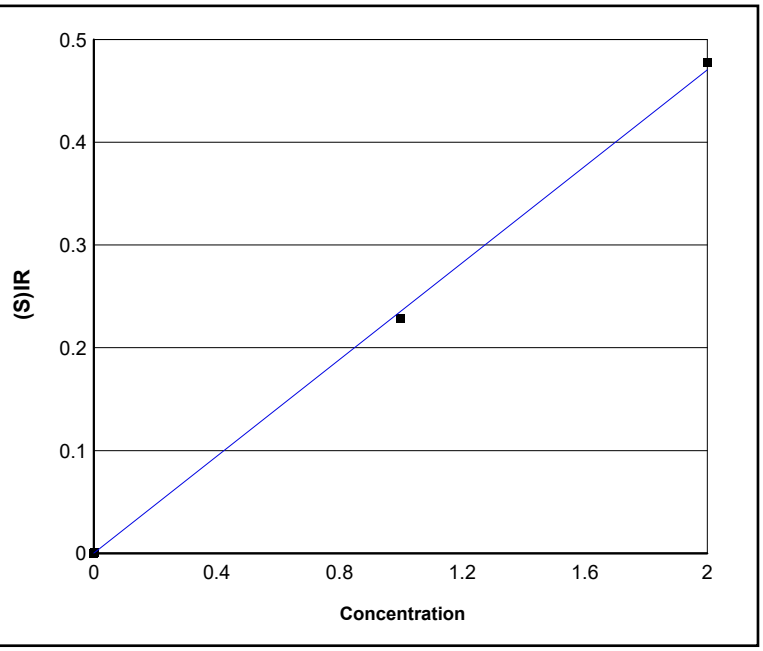
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000018662	-0.0000018662	0.00000	0.0012426	0.00055440	1
IC-7610998	0.20000	0.20194	0.0019445	0.97225	0.020850	0.00038523	1
IC-7538313	50.000	49.963	-0.037200	-0.074400	4.8521	0.010303	1
IC-7485776	100.00	100.04	0.035255	0.035255	9.7137	0.14428	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0032089
A1 (Gain):	3.5681
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

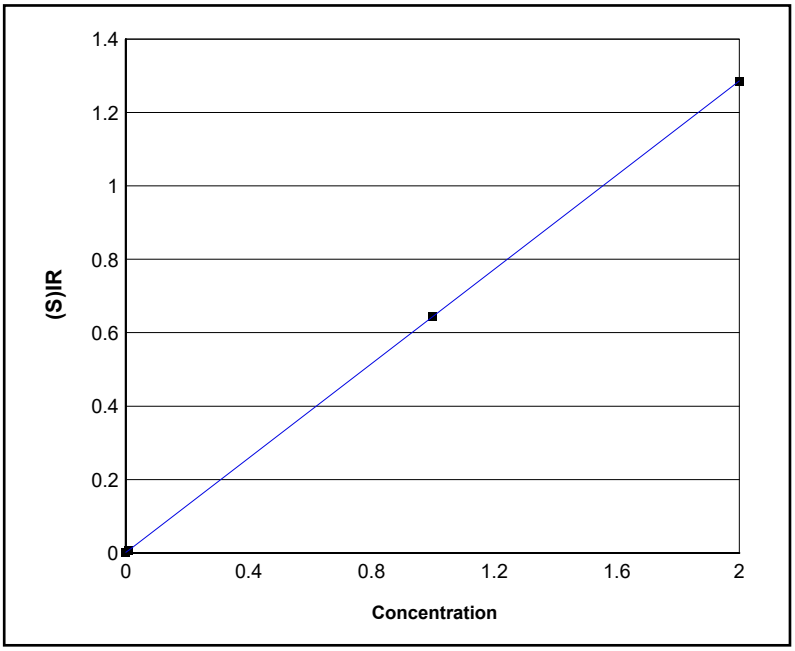
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000001908	-0.0000001908	0.00000	0.0032082	0.00027190	1
IC-7610998	0.0030000	0.0032085	0.00020847	6.9489	0.014669	0.00035427	1
IC-7538313	1.0000	0.98846	-0.011542	-1.1542	3.5332	0.0052701	1
IC-7485776	2.0000	2.0113	0.011333	0.56665	7.1859	0.094016	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99978
A0 (Offset):	0.00024108
A1 (Gain):	0.23516
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

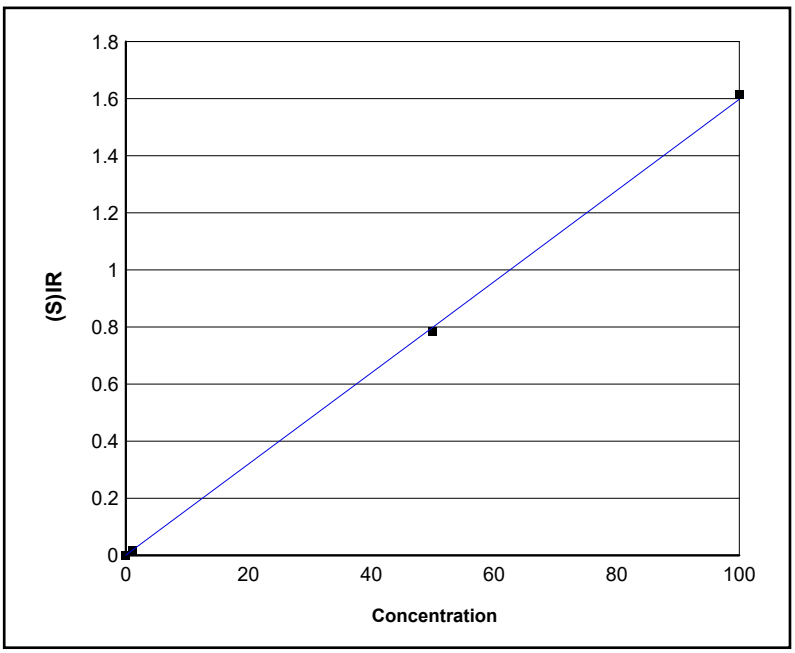
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000004058	-0.0000004058	0.00000	0.00024099	0.00013325	1
IC-7610998	0.0030000	0.0034504	0.00045037	15.012	0.0010525	0.000054385	1
IC-7538313	1.0000	0.97076	-0.029240	-2.9240	0.22853	0.0023084	1
IC-7485776	2.0000	2.0288	0.028789	1.4395	0.47733	0.0012276	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0012586
A1 (Gain):	0.64259
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

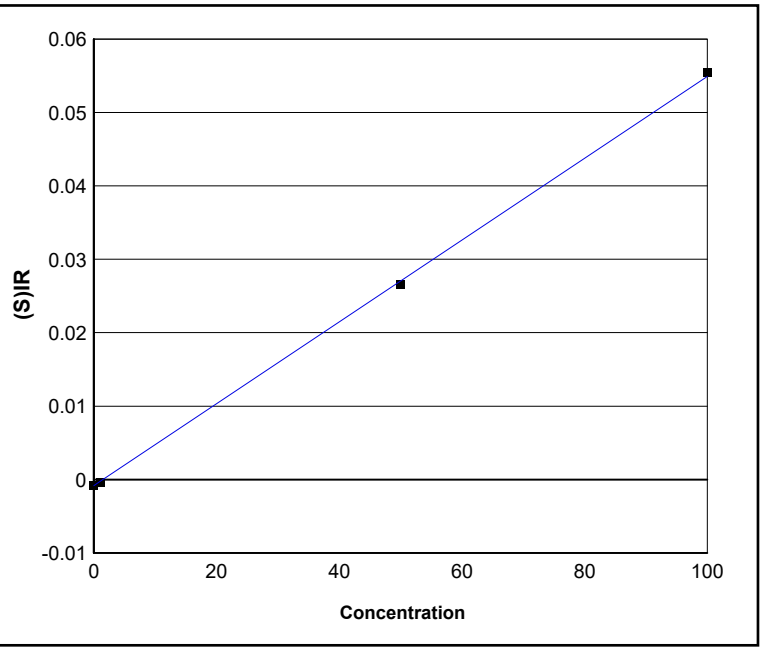
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000002278	0.0000002278	0.00000	0.0012588	0.000024204	1
IC-7610998	0.010000	0.0097606	-0.00023943	-2.3943	0.0075307	0.000037830	1
IC-7538313	1.0000	1.0021	0.0020789	0.20789	0.64519	0.0016212	1
IC-7485776	2.0000	1.9982	-0.0018395	-0.091973	1.2853	0.0029333	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00034096
A1 (Gain):	0.015974
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

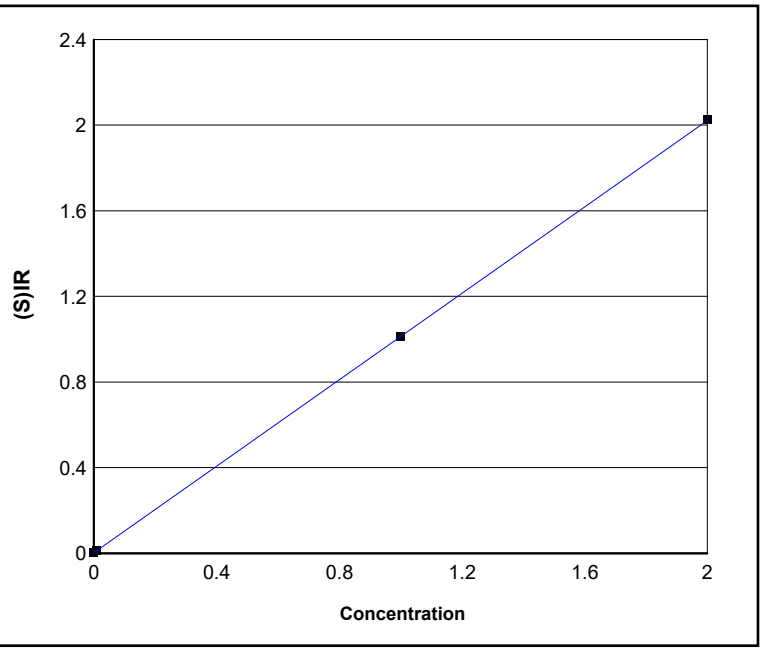
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000088275	0.0000088275	0.00000	0.00034110	0.00026645	1
IC-7610998	1.0000	1.0006	0.00058296	0.058296	0.016324	0.00038781	1
IC-7538313	50.000	49.060	-0.94046	-1.8809	0.78402	0.0092248	1
IC-7485776	100.00	100.94	0.93988	0.93988	1.6127	0.014687	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99980
A0 (Offset):	-0.00083666
A1 (Gain):	0.00055767
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

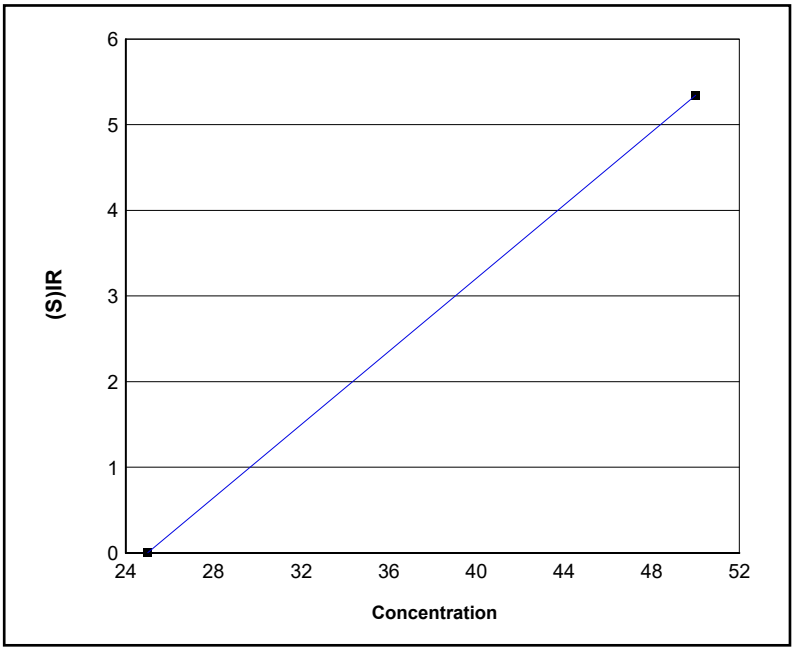
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.00019598	0.00019598	0.00000	-0.00083655	0.000050586	1
IC-7610998	1.0000	0.81028	-0.18972	-18.972	-0.00038479	0.000058668	1
IC-7538313	50.000	49.184	-0.81594	-1.6319	0.026592	0.00018664	1
IC-7485776	100.00	101.01	1.0057	1.0057	0.055491	0.00065100	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0030653
A1 (Gain):	1.0093
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

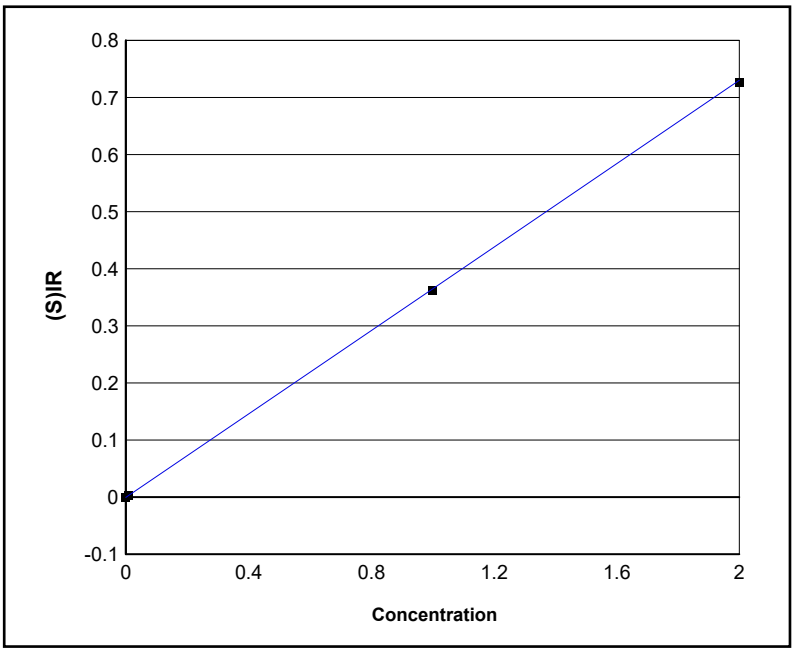
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000822	0.0000000822	0.00000	0.0030653	0.0000000956	1
IC-7610998	0.010000	0.0099312	-0.000068833	-0.68833	0.013090	0.00020499	1
IC-7538313	1.0000	0.99727	-0.0027345	-0.27345	1.0106	0.00036465	1
IC-7485776	2.0000	2.0028	0.0028032	0.14016	2.0264	0.0041261	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-5.340
A1 (Gain):	0.2137
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

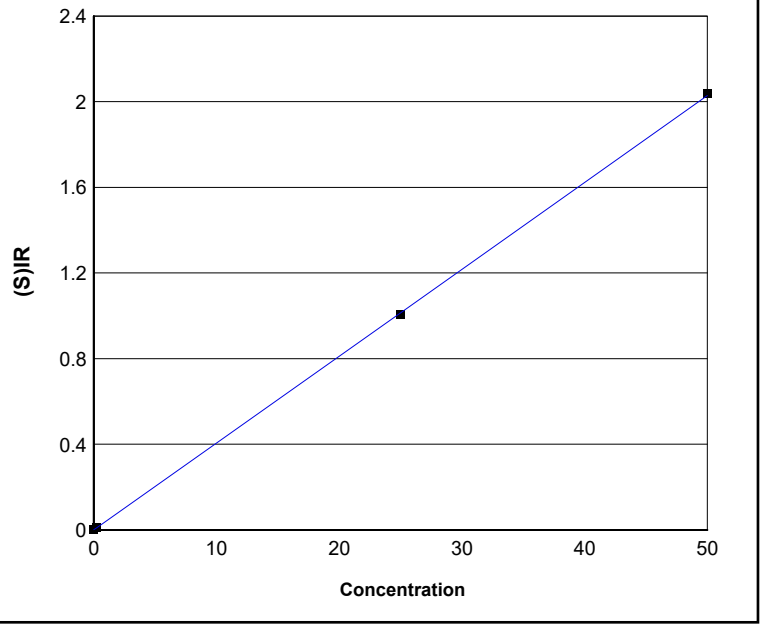
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7610998	25.00	25.00	0.0000000000	0.0000000000	0.001624	0.0002968	1
IC-7485776	50.00	50.00	0.0000000000	0.0000000000	5.343	0.008747	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00055036
A1 (Gain):	0.36546
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

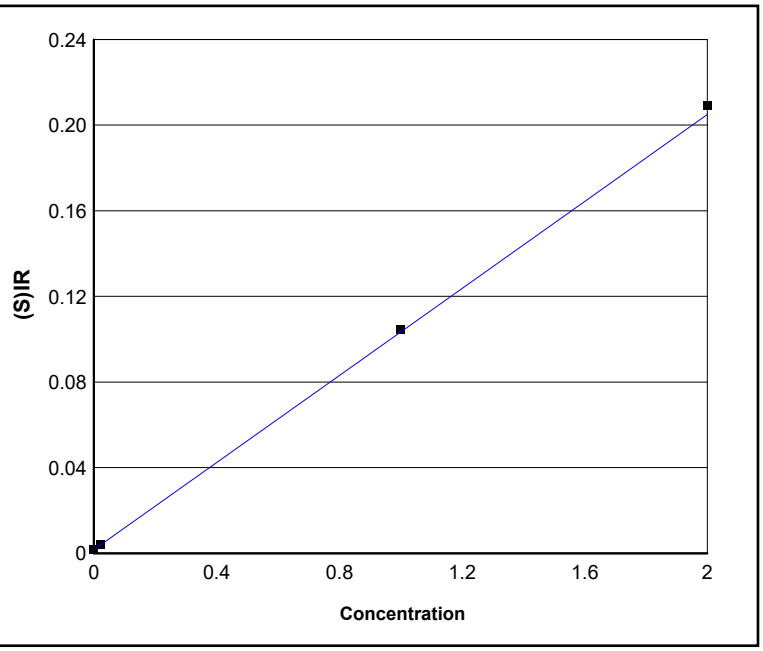
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000011030	0.0000011030	0.00000	-0.00054996	0.00047360	1
IC-7610998	0.010000	0.0088980	-0.0011020	-11.020	0.0026930	0.00010841	1
IC-7538313	1.0000	0.99870	-0.0013023	-0.13023	0.36153	0.0010335	1
IC-7485776	2.0000	2.0024	0.0024105	0.12053	0.72545	0.00056040	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0011684
A1 (Gain):	0.040554
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

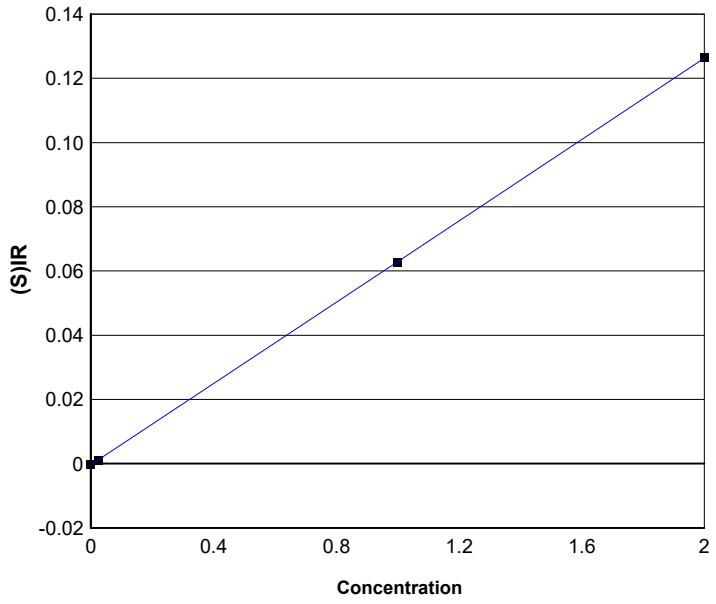
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000062805	-0.0000062805	0.00000	0.0011681	0.000061718	1
IC-7610998	0.20000	0.20720	0.0072023	3.6011	0.0095713	0.00010135	1
IC-7538313	25.000	24.777	-0.22325	-0.89299	1.0060	0.0025385	1
IC-7485776	50.000	50.216	0.21605	0.43209	2.0376	0.0030441	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0017269
A1 (Gain):	0.10166
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

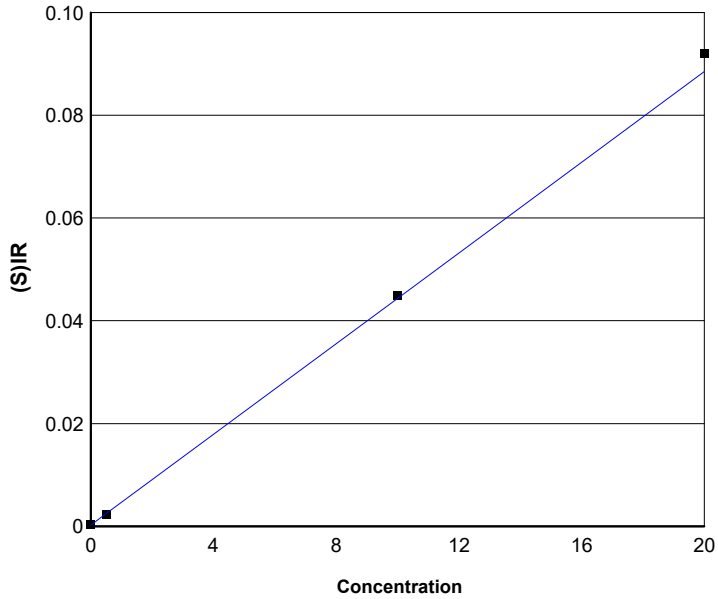
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000021129	-0.0000021129	0.00000	0.0017266	0.00027304	1
IC-7610998	0.020000	0.022191	0.0021906	10.953	0.0039913	0.00024051	1
IC-7538313	1.0000	0.99439	-0.0056071	-0.56071	0.10465	0.000044905	1
IC-7485776	2.0000	2.0034	0.0034462	0.17231	0.20906	0.000076176	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00038733
A1 (Gain):	0.063352
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

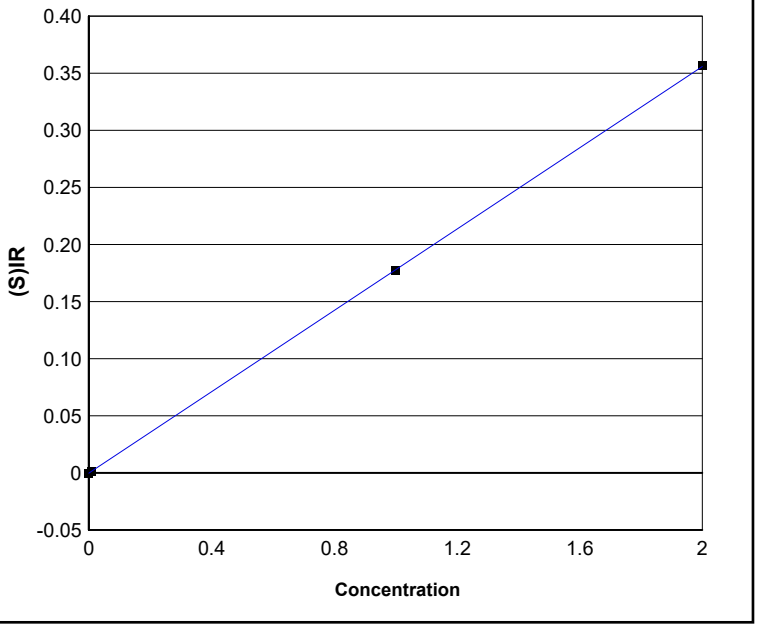
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000016145	0.0000016145	0.00000	-0.00038723	0.00025493	1
IC-7610998	0.025000	0.023412	-0.0015879	-6.3516	0.0010955	0.000033547	1
IC-7538313	1.0000	0.99628	-0.0037208	-0.37208	0.062651	0.000054393	1
IC-7485776	2.0000	2.0053	0.0053102	0.26551	0.12650	0.00062648	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.00026676
A1 (Gain):	0.0044115
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

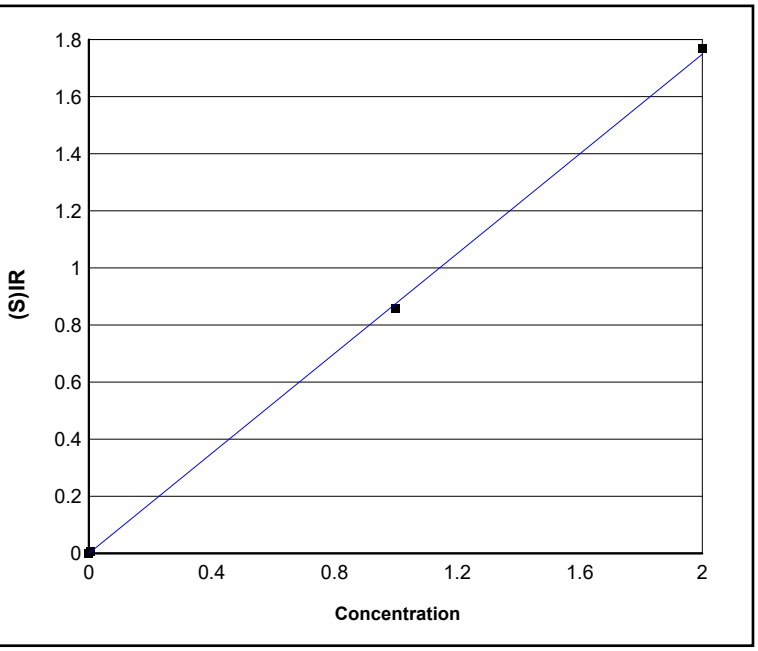
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.000028474	0.000028474	0.00000	0.00026688	0.000050119	1
IC-7610998	0.50000	0.47530	-0.024695	-4.9391	0.0023703	0.00014993	1
IC-7538313	10.000	9.8248	-0.17518	-1.7518	0.044950	0.00083436	1
IC-7485776	20.000	20.199	0.19922	0.99611	0.092057	0.0013068	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00022723
A1 (Gain):	0.17801
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

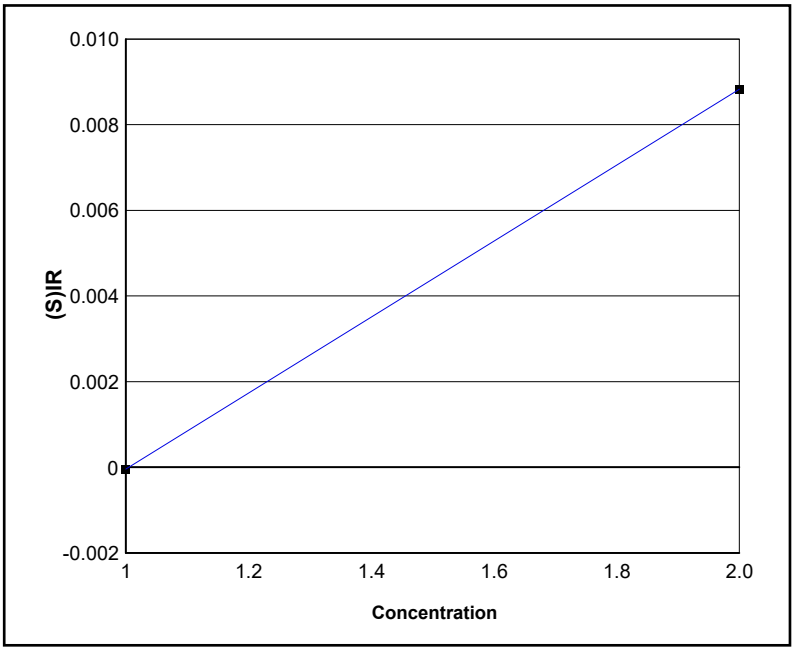
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000001427	0.0000001427	0.00000	-0.00022720	0.000057264	1
IC-7610998	0.010000	0.0098824	-0.00011760	-1.1760	0.0015319	0.000016842	1
IC-7538313	1.0000	0.99487	-0.0051340	-0.51340	0.17687	0.000023721	1
IC-7485776	2.0000	2.0053	0.0052517	0.26258	0.35673	0.00074658	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.00017256
A1 (Gain):	0.87436
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

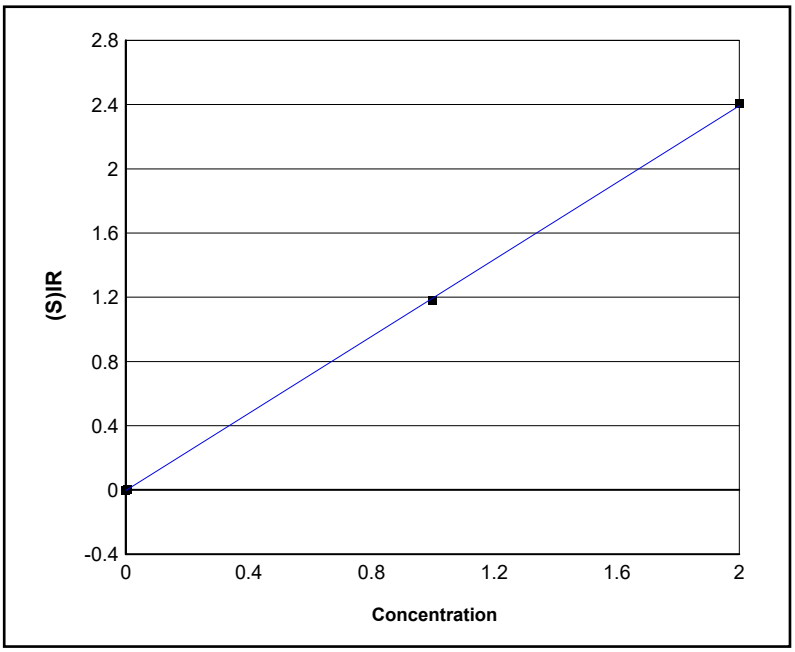
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000001391	0.0000001391	0.00000	0.00017269	0.000037702	1
IC-7610998	0.0050000	0.0049112	-0.000088771	-1.7754	0.0044667	0.0000049025	1
IC-7538313	1.0000	0.97979	-0.020212	-2.0212	0.85686	0.010259	1
IC-7485776	2.0000	2.0203	0.020301	1.0150	1.7666	0.015920	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.008921
A1 (Gain):	0.008877
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

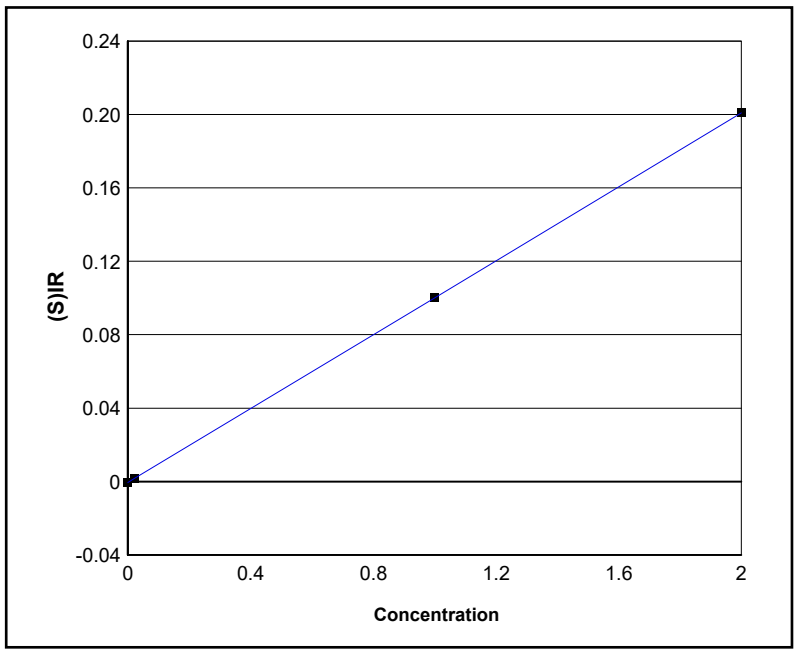
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7610998	1.000	1.000	0.0000	0.0000	-0.00004370	0.00002961	1
IC-7485776	2.000	2.000	0.0000	0.0000	0.008833	0.00003111	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.0030024
A1 (Gain):	1.1975
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

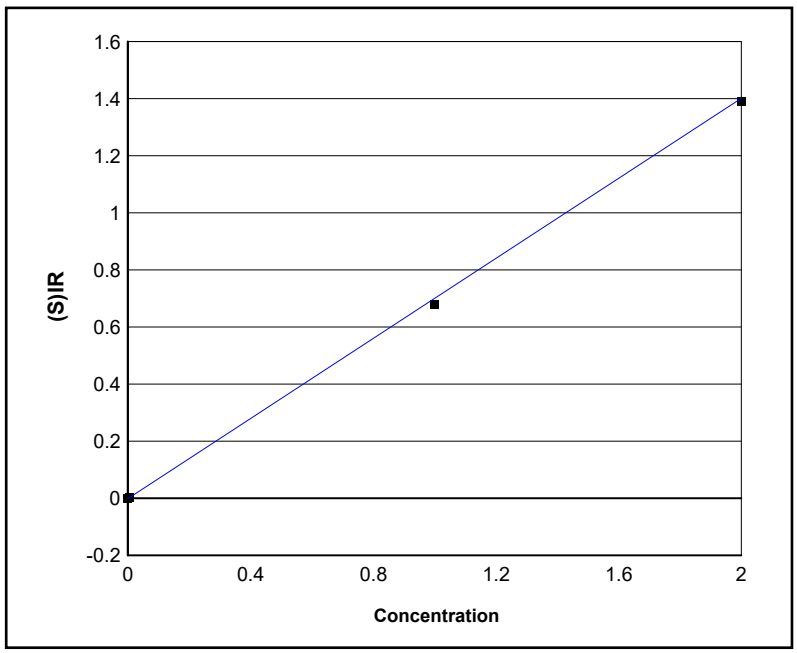
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000871	0.0000000871	0.00000	-0.0030022	0.000013952	1
IC-7610998	0.0050000	0.0049488	-0.000051175	-1.0235	0.0029247	0.00015178	1
IC-7538313	1.0000	0.98560	-0.014404	-1.4404	1.1775	0.00088676	1
IC-7485776	2.0000	2.0145	0.014455	0.72277	2.4099	0.028248	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00053670
A1 (Gain):	0.10066
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

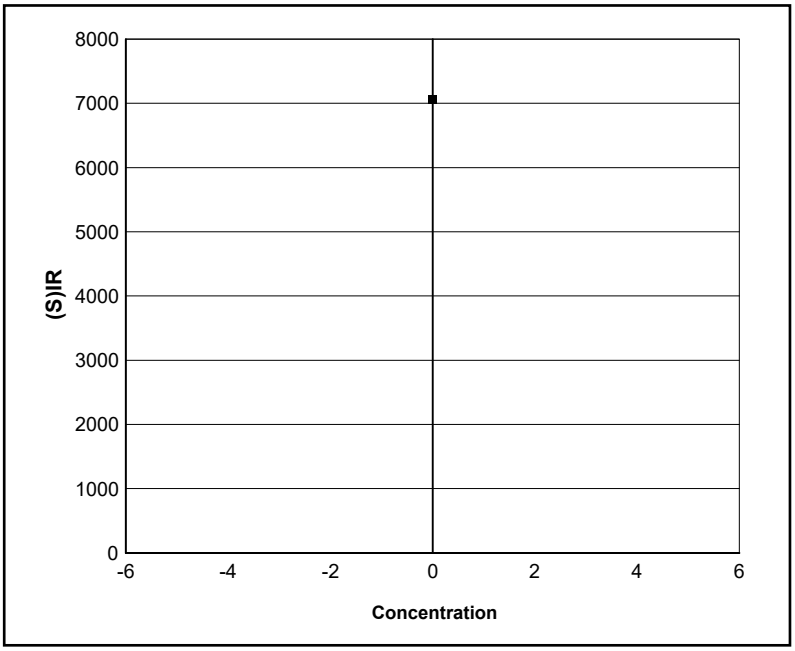
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000006178	0.0000006178	0.00000	-0.00053663	0.000034487	1
IC-7610998	0.020000	0.019379	-0.00062104	-3.1052	0.0014139	0.000097867	1
IC-7538313	1.0000	0.99970	-0.00029909	-0.029909	0.10027	0.00020973	1
IC-7485776	2.0000	2.0009	0.00091905	0.045952	0.20122	0.00068688	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.0010507
A1 (Gain):	0.70109
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

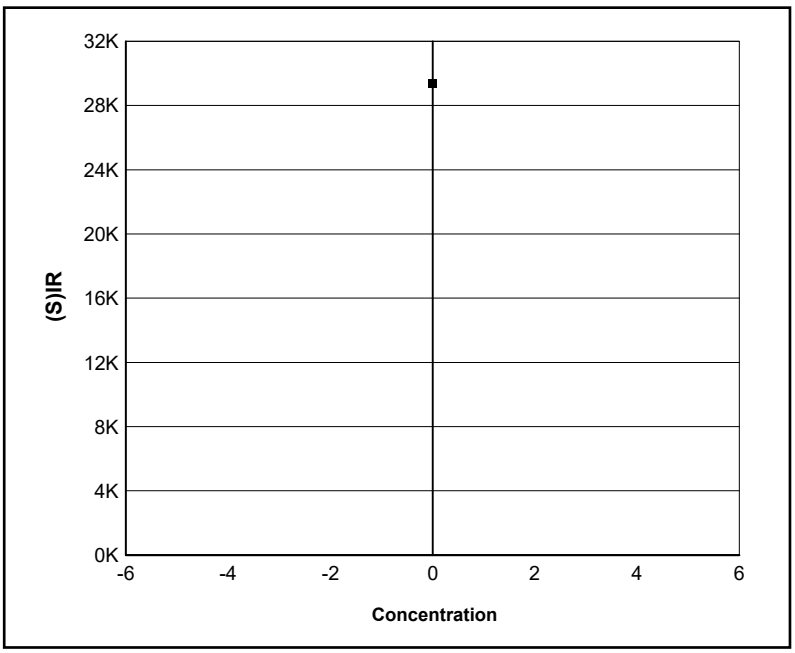
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000005673	0.0000005673	0.00000	-0.0010503	0.000013666	1
IC-7610998	0.0050000	0.0044725	-0.00052752	-10.550	0.0019662	0.0000075180	1
IC-7538313	1.0000	0.98358	-0.016416	-1.6416	0.67724	0.0026963	1
IC-7485776	2.0000	2.0169	0.016934	0.84672	1.3904	0.018434	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 3:52:53PM
Date of Fit:	10/9/2023 3:52:53PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

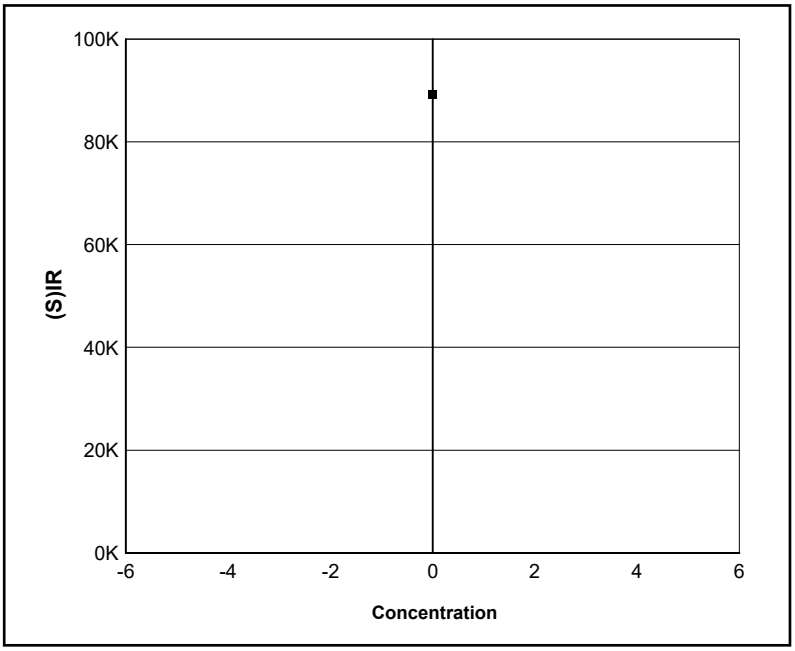
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000			0.0000	7,066	9.278	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 3:52:53PM
Date of Fit:	10/9/2023 3:52:53PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

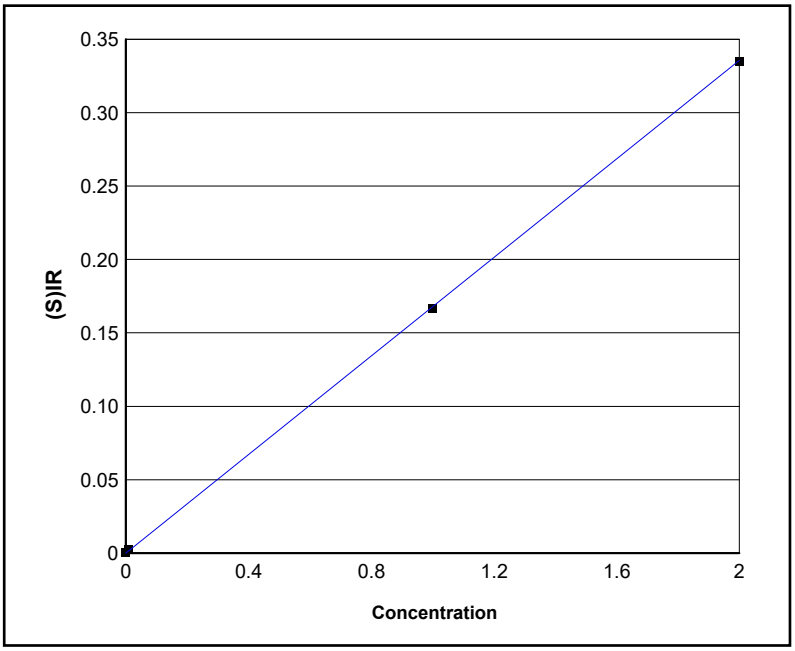
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000			0.0000	29,350	396.8	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 3:52:53PM
Date of Fit:	10/9/2023 3:52:53PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

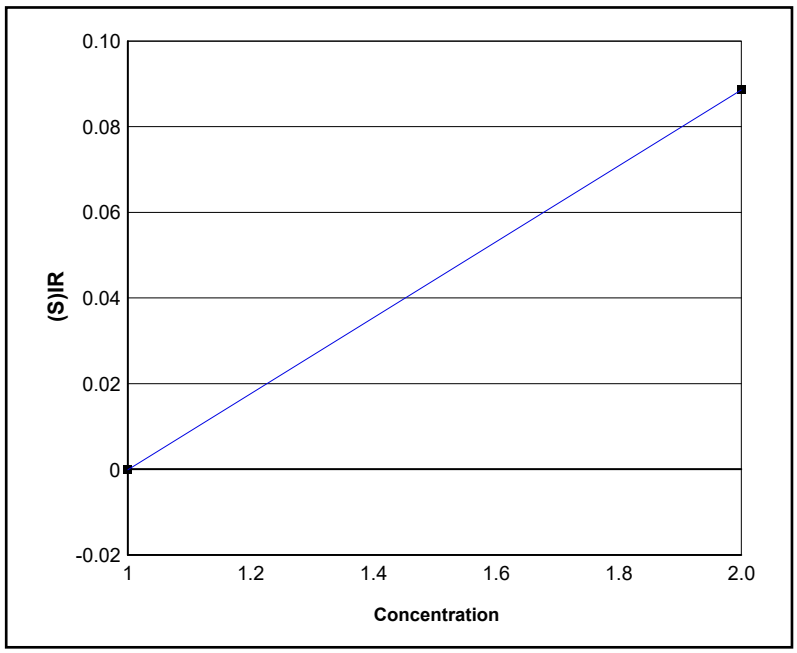
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000			0.0000	89,160	635.1	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	0.000073330
A1 (Gain):	0.16783
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000033456	-0.0000033456	0.00000	0.000072769	0.000010675	1
IC-7610998	0.010000	0.013381	0.0033805	33.805	0.0023178	0.000094600	1
IC-7538313	1.0000	0.99640	-0.0036010	-0.36010	0.16701	0.00068055	1
IC-7485776	2.0000	2.0002	0.00021696	0.010848	0.33518	0.0031131	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	10/9/2023 4:02:49PM
Date of Fit:	10/9/2023 4:02:49PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.08883
A1 (Gain):	0.08872
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7610998	1.000	1.000	0.0000000000	0.0000000000	-0.0001125	0.00002302	1
IC-7485776	2.000	2.000	0.0000	0.0000	0.08861	0.0008571	1

Sample Name: ICIS-7506043 Acquired: 10/9/2023 15:49:35 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00045**	**.00020**	**-.00079**	**.00194**	**.00062**
Stddev	.00007	.00006	.00016	.00004	.00012
%RSD	15.661	31.007	19.615	2.2268	19.022
#1	-.00040	.00016	-.00068	.00197	.00054
#2	-.00050	.00025	-.00090	.00191	.00070

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01147**	**.00006**	**.00149**	**-.00222**	**.0000**
Stddev	.00041	.00007	.00010	.00006	.0001
%RSD	3.5538	125.59	6.5295	2.6674	147.0
#1	.01118	.00001	.00143	-.00226	-.0000
#2	.01176	.00011	.00156	-.00218	.0001

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00104**	**.00051**	**-.00203**	**.00022**	**.00003**
Stddev	.00005	.00008	.00014	.00006	.00006
%RSD	4.3934	14.973	6.9943	26.920	197.22
#1	-.00108	.00046	-.00213	.00018	-.00001
#2	-.00101	.00057	-.00193	.00026	.00008

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00084**	**-.00011**	**.00124**	**.00321**	**.00024**
Stddev	.00013	.00010	.00055	.00027	.00013
%RSD	15.526	89.055	44.615	8.4750	55.295
#1	.00093	-.00018	.00085	.00340	.00015
#2	.00075	-.00004	.00163	.00302	.00034

Sample Name: ICIS-7506043 Acquired: 10/9/2023 15:49:35 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00126**	**.00034**	**-.00084**	**.00307**	**-.00055**
Stddev	.00002	.00027	.00005	.00000	.00047
%RSD	1.9228	78.116	6.0470	.00312	86.115
#1	.00124	.00015	-.00087	.00307	-.00088
#2	.00128	.00053	-.00080	.00307	-.00022

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00117**	**.00173**	**-.00039**	**.00027**	**-.00023**
Stddev	.00006	.00027	.00025	.00005	.00006
%RSD	5.2834	15.813	65.833	18.779	25.204
#1	.00121	.00192	-.00057	.00030	-.00027
#2	.00112	.00153	-.00021	.00023	-.00019

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00017**	**-.00300**	**-.00054**	**-.00105**	**.00007**
Stddev	.00004	.00001	.00003	.00001	.00001
%RSD	21.832	.46473	6.4265	1.3011	14.670
#1	.00015	-.00301	-.00051	-.00106	.00007
#2	.00020	-.00299	-.00056	-.00104	.00008

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5743.6**	**7065.7**	**29352.**	**89162.**
Stddev	15.7	9.3	397.	635.
%RSD	.27271	.13130	1.3517	.71234
#1	5732.5	7059.1	29072.	88713.
#2	5754.7	7072.2	29633.	89611.

Sample Name: IC-7610998 Acquired: 10/9/2023 15:52:57 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00324**	**.00065**	**.00010**	**.00893**	**.00153**
Stddev	.00012	.00005	.00004	.00007	.00021
%RSD	3.6443	7.1353	36.047	.82004	13.844
#1	.00316	.00062	.00013	.00888	.00138
#2	.00332	.00069	.00008	.00898	.00168

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04906**	**.00136**	**.01155**	**-.00080**	**.00458**
Stddev	.00163	.00004	.00017	.00032	.00014
%RSD	3.3230	2.8515	1.4565	39.932	3.1337
#1	.04790	.00133	.01143	-.00102	.00448
#2	.05021	.00139	.01167	-.00057	.00469

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00305**	**.00322**	**.00072**	**.00005**	**.00325**
Stddev	.00002	.00033	.00006	.00005	.00008
%RSD	.51313	10.282	8.7021	95.403	2.4402
#1	.00303	.00345	.00068	.00002	.00319
#2	.00306	.00298	.00077	.00008	.00330

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00170**	**.02085**	**.01467**	**.00105**	**.00753**
Stddev	.00013	.00039	.00035	.00005	.00004
%RSD	7.5236	1.8476	2.4151	5.1673	.50234
#1	.00161	.02058	.01442	.00101	.00750
#2	.00179	.02112	.01492	.00109	.00756

Sample Name: IC-7610998 Acquired: 10/9/2023 15:52:57 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01632**	**-.00038**	**.01309**	**.0016**	**.00269**
Stddev	.00039	.00006	.00020	.0003	.00011
%RSD	2.3757	15.247	1.5660	18.27	4.0255
#1	.01605	-.00043	.01295	.0014	.00262
#2	.01660	-.00034	.01323	.0018	.00277

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00957**	**.00399**	**.00110**	**.00237**	**.00153**
Stddev	.00010	.00024	.00003	.00015	.00002
%RSD	1.0589	6.0258	3.0622	6.3254	1.0994
#1	.00950	.00416	.00107	.00226	.00154
#2	.00964	.00382	.00112	.00248	.00152

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00447**	**-.0000**	**.00292**	**.00141**	**.00197**
Stddev	.00000	.0000	.00015	.00010	.00001
%RSD	.10976	67.74	5.1895	6.9216	.38236
#1	.00447	-.0000	.00282	.00134	.00196
#2	.00446	-.0001	.00303	.00148	.00197

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00232**	**-.0001**
Stddev	.00009	.0000
%RSD	4.0815	20.46
#1	.00225	-.0001
#2	.00238	-.0001

Sample Name: IC-7610998 Acquired: 10/9/2023 15:52:57 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5576.7**	**6916.7**	**29230.**	**87762.**
Stddev	1.2	7.5	200.	101.
%RSD	.02212	.10782	.68524	.11490
#1	5575.8	6911.4	29372.	87833.
#2	5577.5	6922.0	29088.	87690.

Sample Name: IC-7538313 Acquired: 10/9/2023 15:56:20 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.65705**	**.11723**	**.06749**	**.37062**	**.43001**
Stddev	.00158	.00234	.00003	.00026	.00723
%RSD	.24014	1.9945	.04165	.07066	1.6806
#1	.65816	.11558	.06747	.37043	.42490
#2	.65593	.11888	.06751	.37080	.43512

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**18.746**	**.67875**	**1.0120**	**.59369**	**.0023**
Stddev	.016	.00918	.0130	.00010	.0000
%RSD	.08453	1.3524	1.2829	.01637	1.358
#1	18.757	.67226	1.0028	.59362	.0023
#2	18.735	.68524	1.0212	.59376	.0023

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4044**	**.61841**	**.53786**	**.62081**	**.04106**
Stddev	.0001	.00111	.00150	.00927	.00078
%RSD	.00861	.17971	.27869	1.4939	1.8914
#1	1.4045	.61763	.53680	.61425	.04052
#2	1.4043	.61920	.53892	.62736	.04161

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.23548**	**.05542**	**4.8521**	**3.5332**	**.22853**
Stddev	.00133	.00035	.0103	.0053	.00231
%RSD	.56497	.62515	.21234	.14916	1.0101
#1	.23454	.05517	4.8449	3.5294	.22689
#2	.23642	.05566	4.8594	3.5369	.23016

Sample Name: IC-7538313 Acquired: 10/9/2023 15:56:20 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.64519**	**.78402**	**.02659**	**1.0106**	**.36153**
Stddev	.00162	.00922	.00019	.0004	.00103
%RSD	.25127	1.1766	.70187	.03608	.28587
#1	.64633	.77749	.02646	1.0108	.36080
#2	.64404	.79054	.02672	1.0103	.36227

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0060**	**.10465**	**.06265**	**.04495**	**.17687**
Stddev	.0025	.00004	.00005	.00083	.00002
%RSD	.25235	.04291	.08682	1.8562	.01341
#1	1.0042	.10468	.06261	.04436	.17685
#2	1.0078	.10461	.06269	.04554	.17689

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.85686**	**1.1775**	**.10027**	**.67724**	**.16701**
Stddev	.01026	.0009	.00021	.00270	.00068
%RSD	1.1973	.07531	.20917	.39813	.40750
#1	.84961	1.1769	.10041	.67533	.16652
#2	.86411	1.1782	.10012	.67914	.16749

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5198.1**	**6671.4**	**28737.**	**83491.**
Stddev	8.3	4.5	181.	96.
%RSD	.15958	.06740	.62995	.11455
#1	5192.3	6668.2	28609.	83424.
#2	5204.0	6674.6	28865.	83559.

Sample Name: IC-7485776 Acquired: 10/9/2023 15:59:34 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3312**	**.24310**	**.13635**	**.73946**	**.89300**
Stddev	.0212	.00331	.00003	.00020	.00944
%RSD	1.5950	1.3599	.01852	.02683	1.0569
#1	1.3462	.24076	.13633	.73960	.88632
#2	1.3162	.24544	.13637	.73932	.89967

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**38.347**	**1.3974**	**2.0947**	**1.1990**	**.0048**
Stddev	.364	.0144	.0132	.0036	.0000
%RSD	.94869	1.0311	.62972	.30001	.7876
#1	38.604	1.3872	2.0854	1.2015	.0048
#2	38.090	1.4075	2.1040	1.1964	.0048

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.8300**	**1.2639**	**1.1164**	**1.2844**	**.08490**
Stddev	.0060	.0216	.0103	.0137	.00071
%RSD	.21334	1.7120	.91979	1.0680	.83850
#1	2.8342	1.2792	1.1237	1.2747	.08440
#2	2.8257	1.2486	1.1092	1.2941	.08541

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.48269**	**.11461**	**9.7137**	**7.1859**	**.47733**
Stddev	.00275	.00053	.1443	.0940	.00123
%RSD	.56875	.46213	1.4853	1.3083	.25718
#1	.48075	.11424	9.8157	7.2524	.47820
#2	.48463	.11499	9.6117	7.1194	.47646

Sample Name: IC-7485776 Acquired: 10/9/2023 15:59:34 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2853**	**1.6127**	**.05549**	**2.0264**	**5.343**
Stddev	.0029	.0147	.00065	.0041	.009
%RSD	.22823	.91066	1.1732	.20362	.1637
#1	1.2873	1.6024	.05503	2.0293	5.350
#2	1.2832	1.6231	.05595	2.0235	5.337

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.72545**	**2.0376**	**.20906**	**.12650**	**.09206**
Stddev	.00056	.0030	.00008	.00063	.00131
%RSD	.07725	.14939	.03644	.49525	1.4195
#1	.72585	2.0355	.20900	.12694	.09113
#2	.72506	2.0398	.20911	.12605	.09298

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.35673**	**1.7666**	**.0088**	**2.4099**	**.20122**
Stddev	.00075	.0159	.0000	.0283	.00069
%RSD	.20928	.90112	.3521	1.1722	.34135
#1	.35726	1.7554	.0088	2.4299	.20171
#2	.35620	1.7779	.0089	2.3899	.20074

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**1.3904**	**.33518**	**.0886**
Stddev	.0184	.00311	.0009
%RSD	1.3258	.92878	.9672
#1	1.4035	.33739	.0880
#2	1.3774	.33298	.0892

Sample Name: IC-7485776 Acquired: 10/9/2023 15:59:34 Type: Cal
Method: ICAP1 Updated OCT 2023(v6) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4992.0**	**6536.4**	**27500.**	**81113.**
Stddev	9.2	1.0	435.	171.
%RSD	.18495	.01529	1.5806	.21078
#1	4985.5	6535.7	27193.	80992.
#2	4998.5	6537.1	27807.	81234.

Sample Name: ICV-7538312 Acquired: 10/9/2023 16:17:42 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.72623**	W **34.717**	**.72671**	**.72626**	W **.68254**
Stddev	.01447	1.460	.00264	.00032	.02583
%RSD	1.9922	4.2060	.36372	.04429	3.7837
#1	.71600	33.685	.72858	.72648	.66428
#2	.73647	35.750	.72484	.72603	.70080
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn
Value		37.500			.75000
Range		-5.0000%			-5.0000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **.68054**	W **35.032**	**.71774**	**.0008**	**.72029**
Stddev	.02653	1.274	.00001	.0017	.00047
%RSD	3.8983	3.6363	.00073	208.3	.06482
#1	.66178	34.132	.71775	-.0004	.72062
#2	.69930	35.933	.71774	.0020	.71996
Check ?	Chk Warn	Chk Warn	Chk Pass	None	Chk Pass
Value	.75000	37.500			
Range	-5.0000%	-5.0000%			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.72795**	W **.69152**	W **34.784**	W **35.246**	W **.68300**
Stddev	.01684	.01413	1.442	.941	.01916
%RSD	2.3137	2.0434	4.1462	2.6685	2.8054
#1	.71604	.68153	33.764	34.581	.66945
#2	.73985	.70151	35.804	35.911	.69655
Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Warn	Chk Warn
Value		.75000	37.500	37.519	.75000
Range		-5.0000%	-5.0000%	-5.0000%	-5.0000%

Sample Name: ICV-7538312 Acquired: 10/9/2023 16:17:42 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.935**	**.73682**	**.73645**	W **35.432**	**.72053**
Stddev	.746	.01528	.00051	1.202	.00002
%RSD	2.0185	2.0734	.06936	3.3927	.00272
#1	36.408	.72601	.73609	34.582	.72051
#2	37.462	.74762	.73681	36.282	.72054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				37.519	
Range				-5.0000%	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.24**	**.73468**	**18.418**	W **.70720**	**.72565**
Stddev	.01	.00034	.044	.00157	.00668
%RSD	.0321	.04569	.24014	.22160	.91996
#1	34.24	.73491	18.387	.70609	.72093
#2	34.23	.73444	18.449	.70831	.73037
Check ?	None	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.75000	
Range				-5.0000%	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **6.9354**	**.71822**	W **.68510**	**1.036**	**.72244**
Stddev	.2952	.00091	.02401	.001	.01634
%RSD	4.2570	.12622	3.5044	.0924	2.2622
#1	6.7266	.71758	.66812	1.035	.71088
#2	7.1442	.71886	.70207	1.036	.73399
Check ?	Chk Warn	Chk Pass	Chk Warn	None	Chk Pass
Value	7.5000		.75000		
Range	-5.0000%		-5.0000%		

Sample Name: ICV-7538312 Acquired: 10/9/2023 16:17:42 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.73718**	**.72419**	**.73312**	**.9997**
Stddev	.00221	.01433	.01515	.0012
%RSD	.29986	1.9790	2.0663	.1217
#1	.73562	.71406	.72240	.9988
#2	.73875	.73433	.74383	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5396.0**	**6906.9**	**29200.**	**87461.**
Stddev	1.7	2.0	385.	776.
%RSD	.03233	.02845	1.3200	.88709
#1	5397.2	6908.3	29473.	88009.
#2	5394.7	6905.5	28928.	86912.

Sample Name: ICB-7506043 Acquired: 10/9/2023 16:20:53 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**.01381**	**-.00041**	**.00065**	**-.00005**
Stddev	.00099	.00222	.00063	.00040	.00001
%RSD	108.22	16.081	153.86	61.573	22.083
#1	-.00161	.01538	.00004	.00094	-.00004
#2	-.00021	.01224	-.00085	.00037	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01495**	**.00022**	**-.0184**	**-.00014**
Stddev	.00015	.00670	.00016	.0142	.00025
%RSD	1427.0	44.851	74.315	77.23	172.16
#1	-.00010	.01021	.00010	-.0083	.00003
#2	.00012	.01969	.00033	-.0284	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00083**	**.00234**	**.10575**	**.00181**
Stddev	.00009	.00001	.00551	.00883	.00064
%RSD	45.768	.79049	235.30	8.3458	35.245
#1	.00026	.00082	-.00155	.09951	.00226
#2	.00013	.00083	.00624	.11199	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7506043 Acquired: 10/9/2023 16:20:53 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00416**	**.00004**	**.00151**	**.00961**	**-.00019**
Stddev	.00262	.00004	.00045	.00952	.00028
%RSD	63.082	112.57	29.575	98.993	147.89
#1	.00601	.00007	.00120	.00288	.00001
#2	.00230	.00001	.00183	.01634	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00162**	**.00211**	**.00029**	**.00074**
Stddev	.00	.00034	.00327	.00054	.00093
%RSD	.0028	20.834	154.90	182.74	125.01
#1	25.00	-.00186	.00443	.00068	.00140
#2	25.00	-.00138	-.00020	-.00009	.00009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01290**	**.00025**	**.00017**	**1.006**	**.00041**
Stddev	.00930	.00014	.00012	.003	.00040
%RSD	72.051	55.348	67.038	.2645	95.698
#1	.01948	.00035	.00009	1.008	.00069
#2	.00633	.00015	.00025	1.004	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7506043 Acquired: 10/9/2023 16:20:53 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00051**	**.00020**	**1.001**
Stddev	.00025	.00019	.00015	.001
%RSD	63.732	36.286	74.816	.0752
#1	.00022	-.00065	.00031	1.001
#2	.00058	-.00038	.00010	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5713.7**	**7050.0**	**29801.**	**88878.**
Stddev	9.7	12.4	205.	487.
%RSD	.17051	.17622	.68826	.54768
#1	5720.6	7058.7	29656.	89222.
#2	5706.8	7041.2	29946.	88534.

Sample Name: ICVL-7610998 Acquired: 10/9/2023 16:24:17 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.17156**	**.01498**	**.01941**	**.00198**
Stddev	.00018	.03069	.00012	.00031	.00005
%RSD	3.0820	17.887	.80769	1.6118	2.7571
#1	.00584	.14986	.01507	.01963	.00202
#2	.00559	.19326	.01489	.01919	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**.49074**	**.00210**	**-.0334**	**.00375**
Stddev	.00018	.01877	.00055	.0120	.00028
%RSD	9.6555	3.8247	26.136	35.78	7.4687
#1	.00170	.47747	.00248	-.0250	.00395
#2	.00195	.50401	.00171	-.0419	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00453**	**.01036**	**.03930**	**.61285**	**.03222**
Stddev	.00003	.00006	.00208	.06947	.00025
%RSD	.63773	.58612	5.3017	11.336	.78279
#1	.00451	.01032	.03783	.56373	.03240
#2	.00455	.01041	.04078	.66198	.03204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-7610998 Acquired: 10/9/2023 16:24:17 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20412**	**.00320**	**.01004**	**1.0172**	**.01003**
Stddev	.00244	.00004	.00004	.0209	.00004
%RSD	1.1936	1.1956	.35507	2.0577	.42972
#1	.20240	.00318	.01007	1.0024	.01006
#2	.20585	.00323	.01002	1.0320	.01000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00855**	**.20960**	**.02243**	**.02478**
Stddev	.00	.00072	.00215	.00049	.00326
%RSD	.0010	8.4120	1.0244	2.1740	13.176
#1	25.00	.00906	.21112	.02278	.02247
#2	25.00	.00804	.20808	.02209	.02709
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48242**	**.01004**	**.00482**	F **1.007**	**.00486**
Stddev	.00229	.00001	.00023	.002	.00014
%RSD	.47570	.12725	4.8102	.2026	2.9418
#1	.48404	.01005	.00466	1.006	.00496
#2	.48080	.01003	.00499	1.008	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-7610998 Acquired: 10/9/2023 16:24:17 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01762**	**.00464**	**.00997**	F **.9997**
Stddev	.00084	.00021	.00004	.0000
%RSD	4.7838	4.5926	.44877	.0039
#1	.01703	.00449	.00994	.9997
#2	.01822	.00479	.01001	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5555.3**	**6925.5**	**29478.**	**87034.**
Stddev	6.7	7.9	180.	935.
%RSD	.12129	.11427	.60944	1.0743
#1	5560.0	6931.1	29605.	87695.
#2	5550.5	6919.9	29351.	86372.

Sample Name: ICSA-7420389 Acquired: 10/9/2023 16:27:39 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00242**	**510.56**	**.00365**	**-.00025**	**.00115**
Stddev	.00040	5.32	.00092	.00050	.00003
%RSD	16.412	1.0427	25.169	197.98	2.1916
#1	-.00214	506.79	.00430	-.00060	.00117
#2	-.00270	514.32	.00300	.00010	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**474.74**	F **.00449**	**.0192**	**-.00124**
Stddev	.00012	5.17	.00115	.0057	.00049
%RSD	106.87	1.0896	25.689	29.49	39.101
#1	.00020	471.08	.00367	.0232	-.00159
#2	.00003	478.39	.00531	.0152	-.00090
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			.00300		
Low Limit			-.00300		

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.00554**	**194.90**	**.19222**	**.01808**
Stddev	.00023	.00033	2.67	.00881	.00036
%RSD	11.690	5.9420	1.3683	4.5828	2.0148
#1	.00212	.00530	193.02	.19845	.01783
#2	.00180	.00577	196.79	.18599	.01834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7420389 Acquired: 10/9/2023 16:27:39 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**499.49**	**.00202**	**-.00016**	**.08977**	**.00124**
Stddev	8.04	.00001	.00080	.00551	.00071
%RSD	1.6104	.38626	498.43	6.1411	57.162
#1	493.80	.00202	.00041	.08587	.00074
#2	505.18	.00201	-.00073	.09366	.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00023**	**-.02906**	**.00020**	**-.00228**
Stddev	.00	.00078	.00119	.00014	.00136
%RSD	.0039	344.26	4.0861	72.772	59.579
#1	25.02	-.00033	-.02822	.00030	-.00132
#2	25.02	.00078	-.02990	.00010	-.00323
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00255**	**.00388**	**1.075**	**.00451**
Stddev	.01198	.00074	.00015	.004	.00032
%RSD	2129.2	29.165	3.9256	.3921	7.1501
#1	-.00903	-.00202	.00399	1.072	.00474
#2	.00791	-.00307	.00378	1.078	.00428
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7420389 Acquired: 10/9/2023 16:27:39 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00675**	**.00186**	**.00025**	**1.002**
Stddev	.00231	.00052	.00037	.000
%RSD	34.263	28.233	146.55	.0076
#1	.00512	.00223	.00051	1.002
#2	.00839	.00149	-.00001	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4837.2**	**6368.6**	**26751.**	**80398.**
Stddev	12.2	29.2	210.	309.
%RSD	.25232	.45783	.78358	.38398
#1	4845.8	6389.2	26899.	80180.
#2	4828.5	6348.0	26603.	80616.

Sample Name: ICSAB-7538391 Acquired: 10/9/2023 16:31:09 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53968**	**537.33**	**.49573**	**5.0379**	**.53040**
Stddev	.00296	2.89	.00094	.0055	.00515
%RSD	.54803	.53692	.18868	.10940	.97014
#1	.53759	535.29	.49639	5.0418	.52676
#2	.54177	539.37	.49507	5.0340	.53404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.26437**	**500.97**	**.51271**	**-.0070**	**.49812**
Stddev	.00256	7.20	.00070	.0123	.00021
%RSD	.96702	1.4374	.13626	175.8	.04159
#1	.26256	495.88	.51222	-.0156	.49798
#2	.26618	506.07	.51321	.0017	.49827
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50808**	**.52998**	**204.54**	**5.7778**	**.02303**
Stddev	.00189	.00119	.23	.0016	.00140
%RSD	.37114	.22438	.11034	.02815	6.0734
#1	.50675	.52914	204.38	5.7790	.02402
#2	.50941	.53082	204.70	5.7767	.02204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Sample Name: ICSAB-7538391 Acquired: 10/9/2023 16:31:09 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**515.58**	**.50564**	**.49239**	**5.7225**	**.49221**
Stddev	.47	.00228	.00171	.0552	.00017
%RSD	.09069	.45085	.34762	.96468	.03498
#1	515.25	.50402	.49360	5.6834	.49209
#2	515.91	.50725	.49118	5.7615	.49233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.52**	**.49779**	**.00802**	**.49927**	**.48429**
Stddev	.00	.00213	.00238	.00746	.00061
%RSD	.0024	.42701	29.629	1.4942	.12511
#1	27.52	.49629	.00970	.50455	.48386
#2	27.52	.49929	.00634	.49400	.48472
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1293**	**.48681**	**.53465**	**1.076**	**.51078**
Stddev	.0093	.00229	.00418	.003	.00390
%RSD	.18077	.47009	.78206	.2541	.76433
#1	5.1359	.48843	.53169	1.078	.50802
#2	5.1228	.48520	.53760	1.074	.51354
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: ICSAB-7538391 Acquired: 10/9/2023 16:31:09 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.49873**	**.50925**	**.47222**	**1.004**
Stddev	.00074	.00267	.00517	.001
%RSD	.14757	.52507	1.0949	.0977
#1	.49925	.50736	.46857	1.004
#2	.49821	.51114	.47588	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4672.4**	**6175.8**	**25869.**	**77371.**
Stddev	11.3	3.5	220.	116.
%RSD	.24147	.05649	.85096	.14929
#1	4680.4	6178.3	26024.	77290.
#2	4664.4	6173.3	25713.	77453.

Sample Name: ICEX1 Acquired: 10/9/2023 16:34:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.08884**	**5.1999**	**.00473**	**-.00013**
Stddev	.00043	.05758	.0032	.00057	.00010
%RSD	515.90	64.811	.06096	11.942	83.551
#1	.00022	.12956	5.2021	.00513	-.00020
#2	-.00039	.04813	5.1976	.00433	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**.03917**	**-.00000**	**.0068**	**-.00008**
Stddev	.00008	.03101	.00040	.0693	.00017
%RSD	6.5679	79.177	8323.2	1023.	209.25
#1	.00133	.06110	.00028	.0557	.00004
#2	.00121	.01724	-.00029	-.0422	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**24.660**	**.03141**	**-.01679**	**-.00377**
Stddev	.00005	.196	.02761	.02250	.00013
%RSD	3.7992	.79619	87.898	133.99	3.5195
#1	.00138	24.521	.05093	-.00088	-.00386
#2	.00131	24.799	.01189	-.03270	-.00367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 10/9/2023 16:34:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02524**	**-.00023**	**-.00028**	**-.01609**	**-.00041**
Stddev	.01385	.00008	.00000	.01436	.00034
%RSD	54.888	35.254	.70948	89.253	81.619
#1	.01544	-.00029	-.00028	-.00593	-.00017
#2	.03503	-.00017	-.00028	-.02624	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.16**	**-.00050**	**-.00257**	**.00391**	**.00316**
Stddev	.00	.00061	.00150	.00151	.00349
%RSD	.0030	122.78	58.337	38.652	110.58
#1	25.16	-.00007	-.00363	.00498	.00563
#2	25.16	-.00093	-.00151	.00284	.00069
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00045**	**-.00000**	**1.003**	**.00040**
Stddev	.00630	.00028	.00020	.002	.00001
%RSD	10730.	61.727	4135.7	.2129	2.8540
#1	.00439	.00064	.00014	1.004	.00039
#2	-.00451	.00025	-.00015	1.001	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 10/9/2023 16:34:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00846**	F **5.5395**	**-.00032**	**1.001**
Stddev	.00136	.0286	.00027	.000
%RSD	16.103	.51560	84.309	.0314
#1	.00750	5.5193	-.00051	1.001
#2	.00942	5.5597	-.00013	1.001
Check ?	Chk Pass	Chk Fail	Chk Pass	None
High Limit		5.5000		
Low Limit		4.5000		
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5710.5**	**7076.3**	**29511.**	**88408.**
Stddev	1.9	17.8	53.	414.
%RSD	.03255	.25200	.18010	.46798
#1	5709.2	7088.9	29548.	88116.
#2	5711.8	7063.7	29473.	88701.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.425%	100.15%	100.54%	99.155%
Range				

Sample Name: ICEX2 Acquired: 10/9/2023 16:38:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00165**	**-.01463**	**.00400**	**.00343**	**-.00008**
Stddev	.00037	.01098	.00038	.00029	.00009
%RSD	22.195	75.061	9.4000	8.5772	104.33
#1	-.00190	-.00687	.00374	.00364	-.00002
#2	-.00139	-.02240	.00427	.00322	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00875**	**-.00060**	**-.0366**	**-.00002**
Stddev	.00001	.01005	.00031	.0416	.00062
%RSD	2.2821	114.87	51.797	113.8	3320.4
#1	-.00057	.01585	-.00083	-.0660	.00042
#2	-.00056	.00164	-.00038	-.0071	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	F **-.01386**	**-.00204**	**-.05828**	**9.8166**
Stddev	.00029	.00049	.00160	.00349	.1796
%RSD	18.619	3.5537	78.802	5.9920	1.8294
#1	.00174	-.01421	-.00090	-.06075	9.6896
#2	.00134	-.01351	-.00317	-.05581	9.9436
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: ICEX2 Acquired: 10/9/2023 16:38:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03414**	**-.00008**	**.00116**	**-.01383**	**.00458**
Stddev	.01444	.00003	.00013	.00793	.00020
%RSD	42.295	36.648	11.331	57.362	4.2924
#1	-.02393	-.00010	.00126	-.01944	.00472
#2	-.04435	-.00006	.00107	-.00822	.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**-.00157**	**-.00194**	**.00213**	**.00113**
Stddev	.00	.00086	.00026	.00088	.00117
%RSD	.0024	55.025	13.467	41.578	103.03
#1	24.99	-.00096	-.00176	.00150	.00031
#2	24.99	-.00218	-.00213	.00275	.00196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.682**	**-.00150**	**-.00005**	**1.011**	**19.213**
Stddev	1.838	.00124	.00003	.003	.380
%RSD	3.9381	82.318	70.390	.3222	1.9799
#1	45.382	-.00238	-.00002	1.008	18.944
#2	47.982	-.00063	-.00007	1.013	19.482
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 10/9/2023 16:38:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**19.911**	**.00101**	**.00007**	**1.001**
Stddev	.019	.00027	.00011	.000
%RSD	.09626	26.351	152.22	.0244
#1	19.925	.00082	-.00001	1.001
#2	19.898	.00120	.00016	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5530.2**	**7006.8**	**29840.**	**88210.**
Stddev	4.6	3.5	250.	113.
%RSD	.08294	.04986	.83620	.12772
#1	5533.4	7009.2	30016.	88290.
#2	5527.0	7004.3	29664.	88130.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.285%	99.166%	101.66%	98.932%
Range				

Sample Name: ICEX3 Acquired: 10/9/2023 16:41:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00361**	**.10030**	**.00296**	**.00162**	**-.00012**
Stddev	.00016	.06936	.00072	.00006	.00003
%RSD	4.3848	69.151	24.459	3.5008	21.273
#1	.00373	.14935	.00348	.00158	-.00014
#2	.00350	.05126	.00245	.00166	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.06243**	**.00167**	**-1.138**	**-.00010**
Stddev	.00006	.06658	.00026	.045	.00002
%RSD	28806.	106.65	15.564	3.924	18.808
#1	.00004	.10951	.00149	-1.107	-.00011
#2	-.00004	.01535	.00186	-1.170	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00408**	**.04418**	**-.02281**	**.00837**
Stddev	.00050	.00066	.02305	.06139	.00306
%RSD	15535.	16.119	52.182	269.17	36.502
#1	.00036	.00454	.06048	.02060	.01053
#2	-.00035	.00361	.02788	-.06622	.00621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 10/9/2023 16:41:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07568**	**49.152**	**-.00147**	**-.01500**	**.00083**
Stddev	.00101	1.731	.00010	.01035	.00026
%RSD	1.3379	3.5220	7.1036	68.988	30.968
#1	.07640	47.928	-.00154	-.00768	.00065
#2	.07496	50.376	-.00140	-.02232	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**.00624**	**98.464**	**-.00148**	**-.00686**
Stddev	.00	.00040	.084	.00154	.00228
%RSD	.0005	6.3798	.08569	103.99	33.244
#1	24.99	.00652	98.524	-.00256	-.00847
#2	24.99	.00596	98.404	-.00039	-.00524
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04978**	**-.00051**	**-.00002**	**.9966**	**.00111**
Stddev	.01580	.00008	.00005	.0046	.00007
%RSD	31.734	14.876	347.12	.4594	6.0337
#1	.06095	-.00056	.00002	.9934	.00106
#2	.03861	-.00045	-.00005	.9998	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 10/9/2023 16:41:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01323**	**.00160**	**.00114**	**.9991**
Stddev	.00412	.00043	.00009	.0004
%RSD	31.123	26.668	7.5015	.0375
#1	-.01032	.00129	.00121	.9988
#2	-.01615	.00190	.00108	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5745.3**	**7115.3**	**29678.**	**88944.**
Stddev	12.5	4.9	8.	71.
%RSD	.21803	.06910	.02832	.07976
#1	5754.1	7118.7	29684.	88894.
#2	5736.4	7111.8	29672.	88994.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.03%	100.70%	101.11%	99.755%
Range				

Sample Name: ICEX4 Acquired: 10/9/2023 16:45:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**-.00908**	**.00390**	**-.00038**	**-.00007**
Stddev	.00027	.01269	.00163	.00031	.00003
%RSD	24.673	139.76	41.877	81.728	39.025
#1	-.00091	-.01805	.00275	-.00060	-.00005
#2	-.00130	-.00011	.00506	-.00016	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.02451**	F **.00295**	**-.0232**	**19.543**
Stddev	.00008	.01620	.00046	.0678	.021
%RSD	97.359	66.109	15.509	291.9	.10841
#1	-.00014	.03597	.00262	-.0712	19.558
#2	-.00003	.01305	.00327	.0247	19.528
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			.00200		
Low Limit			-.00200		

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.420**	**.00630**	**.00424**	**-.06291**	**.00305**
Stddev	.120	.00140	.00698	.01153	.00199
%RSD	1.1545	22.197	164.35	18.331	65.469
#1	10.335	.00729	.00918	-.07106	.00164
#2	10.505	.00531	-.00069	-.05475	.00446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 10/9/2023 16:45:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00525**	**.00036**	**-.00009**	**-.02311**	**10.025**
Stddev	.00679	.00055	.00004	.00429	.012
%RSD	129.33	151.29	45.672	18.566	.12376
#1	.01005	.00075	-.00006	-.02007	10.033
#2	.00045	-.00003	-.00012	-.02614	10.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**-.00126**	**.07783**	F **-.16528**	**.00058**
Stddev	.00	.00279	.00695	.00201	.00264
%RSD	.0002	221.56	8.9346	1.2170	456.32
#1	24.99	-.00324	.08275	-.16386	.00244
#2	24.99	.00071	.07292	-.16670	-.00129
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.09586**	**-.00082**	**.00003**	**1.009**	**.00355**
Stddev	.00467	.00047	.00011	.005	.00032
%RSD	4.8710	57.019	439.86	.4803	9.1121
#1	-.09917	-.00116	.00011	1.012	.00333
#2	-.09256	-.00049	-.00005	1.006	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 10/9/2023 16:45:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00805**	**.00027**	**.00501**	**.9993**
Stddev	.00031	.00011	.00011	.0002
%RSD	3.8778	40.674	2.2620	.0156
#1	-.00783	.00035	.00493	.9994
#2	-.00827	.00019	.00509	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5681.3**	**7026.8**	**30081.**	**90090.**
Stddev	1.1	2.6	201.	655.
%RSD	.01881	.03685	.66969	.72649
#1	5680.5	7028.7	30224.	90553.
#2	5682.0	7025.0	29939.	89627.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.915%	99.450%	102.48%	101.04%
Range				

Sample Name: ICEX5 Acquired: 10/9/2023 16:48:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.05316**	**-.00163**	**-.01252**	**-.00033**
Stddev	.00056	.00679	.00007	.00030	.00010
%RSD	133.27	12.779	4.2120	2.3868	30.362
#1	-.00002	.05796	-.00168	-.01231	-.00040
#2	-.00081	.04835	-.00159	-.01273	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00074**	**.00018**	**-.0121**	**-.00111**
Stddev	.00002	.00184	.00008	.0258	.00006
%RSD	5.3935	249.91	45.283	212.7	5.8282
#1	-.00036	.00204	.00012	.0061	-.00115
#2	-.00033	-.00057	.00024	-.0304	-.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00259**	**-.00330**	**-.00465**	**-.05423**	**.00001**
Stddev	.00019	.00036	.00028	.05462	.00200
%RSD	7.2874	10.779	6.1177	100.71	36506.
#1	.00273	-.00355	-.00485	-.09285	.00142
#2	.00246	-.00304	-.00445	-.01561	-.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 10/9/2023 16:48:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05654**	**.00083**	**5.3767**	**-.00080**	**.00228**
Stddev	.00675	.00062	.0518	.00062	.00002
%RSD	11.932	74.574	.96376	77.331	.74873
#1	-.06131	.00039	5.4134	-.00123	.00227
#2	-.05177	.00127	5.3401	-.00036	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00132**	**-.00739**	**.00795**	**.00272**
Stddev	.00	.00022	.00041	.00132	.00007
%RSD	.0005	16.886	5.5562	16.659	2.6149
#1	25.00	-.00116	-.00710	.00888	.00267
#2	25.00	-.00148	-.00768	.00701	.00277
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11862**	**.00022**	**-.00017**	**1.003**	F **.00637**
Stddev	.04331	.00060	.00001	.004	.00084
%RSD	36.510	268.15	3.9045	.4173	13.175
#1	.08799	-.00020	-.00016	1.006	.00578
#2	.14924	.00065	-.00017	1.000	.00696
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit					.00500
Low Limit					-.00500

Sample Name: ICEX5 Acquired: 10/9/2023 16:48:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00185**	**-.00292**	**.00003**	**1.001**
Stddev	.00025	.00221	.00000	.001
%RSD	13.414	75.461	9.7555	.0787
#1	-.00202	-.00136	.00004	1.001
#2	-.00167	-.00448	.00003	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5665.7**	**7037.3**	**29970.**	**90500.**
Stddev	5.6	17.8	238.	61.
%RSD	.09934	.25351	.79263	.06761
#1	5661.7	7024.6	30138.	90457.
#2	5669.7	7049.9	29802.	90544.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.644%	99.598%	102.11%	101.50%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 16:51:52 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0123**	**48.183**	**.99954**	**1.0041**	**.97321**
Stddev	.0111	1.862	.00375	.0022	.03538
%RSD	1.0972	3.8643	.37522	.21595	3.6357
#1	1.0044	46.867	1.0022	1.0057	.94819
#2	1.0201	49.500	.99689	1.0026	.99823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97021**	**48.719**	**.98510**	**.9543**	**.99967**
Stddev	.03908	1.818	.00221	.0149	.00223
%RSD	4.0282	3.7310	.22407	1.557	.22344
#1	.94257	47.434	.98666	.9438	1.0012
#2	.99785	50.005	.98354	.9648	.99809
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0089**	**.99655**	**48.874**	**48.318**	**.96423**
Stddev	.0152	.01298	1.737	1.691	.03430
%RSD	1.5062	1.3027	3.5541	3.5004	3.5573
#1	.99812	.98737	47.646	47.122	.93998
#2	1.0196	1.0057	50.102	49.514	.98849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 16:51:52 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.763**	**1.0099**	**1.0214**	**48.788**	**1.0009**
Stddev	.729	.0142	.0001	1.652	.0029
%RSD	1.4369	1.4035	.01129	3.3863	.28487
#1	50.247	.99984	1.0213	47.620	1.0029
#2	51.279	1.0199	1.0214	49.956	.99884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.46**	**1.0043**	**25.070**	**1.0008**	**.99804**
Stddev	.02	.0006	.044	.0032	.00026
%RSD	.0606	.05940	.17708	.31622	.02573
#1	37.47	1.0047	25.039	1.0031	.99823
#2	37.44	1.0038	25.101	.99860	.99786
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6623**	**1.0009**	**.96535**	**1.486**	**1.0073**
Stddev	.4402	.0013	.04078	.016	.0139
%RSD	4.5555	.12900	4.2239	1.104	1.3830
#1	9.3511	1.0018	.93652	1.475	.99750
#2	9.9736	.99999	.99419	1.498	1.0172
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 16:51:52 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0033**	**1.0046**	**1.0137**	**1.480**
Stddev	.0005	.0140	.0121	.019
%RSD	.05415	1.3935	1.1941	1.270
#1	1.0037	.99468	1.0051	1.467
#2	1.0029	1.0145	1.0223	1.494
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5166.8**	**6633.8**	**28181.**	**83785.**
Stddev	3.3	18.9	240.	1032.
%RSD	.06347	.28434	.85073	1.2322
#1	5169.1	6647.2	28350.	84515.
#2	5164.5	6620.5	28011.	83055.

Sample Name: CCB-7506043 Acquired: 10/9/2023 16:55:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00650**	**.00038**	**.00165**	**-.00018**
Stddev	.00028	.02596	.00033	.00058	.00002
%RSD	97.975	399.13	87.460	34.981	11.037
#1	-.00009	-.01185	.00061	.00206	-.00019
#2	-.00049	.02486	.00014	.00125	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00561**	**.00029**	**-.0059**	**.00005**
Stddev	.00004	.00637	.00023	.0114	.00002
%RSD	40.827	113.48	78.306	194.3	32.417
#1	-.00014	.00111	.00046	-.0139	.00004
#2	-.00008	.01012	.00013	.0022	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00089**	**.00039**	**.03862**	**.00231**
Stddev	.00012	.00035	.00186	.03189	.00254
%RSD	31.657	39.433	478.20	82.573	109.85
#1	.00028	.00114	.00171	.01607	.00411
#2	.00045	.00064	-.00093	.06117	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 16:55:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00635**	**.00070**	**.00277**	**.01199**	**-.00011**
Stddev	.00335	.00024	.00062	.00308	.00007
%RSD	52.815	34.401	22.245	25.684	61.373
#1	.00398	.00053	.00233	.00981	-.00016
#2	.00872	.00087	.00320	.01416	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00018**	**.00499**	**.00180**	**-.00029**
Stddev	.00	.00119	.00142	.00139	.00275
%RSD	.0010	646.26	28.534	77.342	940.37
#1	25.00	-.00066	.00398	.00082	.00166
#2	25.00	.00102	.00600	.00278	-.00224
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00555**	**.00034**	**-.00014**	**1.001**	**.00087**
Stddev	.01061	.00047	.00002	.001	.00043
%RSD	191.24	140.74	16.021	.0501	49.735
#1	-.01305	.00000	-.00013	1.001	.00117
#2	.00195	.00067	-.00016	1.000	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 16:55:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00002**	**-.00023**	**1.001**
Stddev	.00025	.00039	.00014	.001
%RSD	81.862	2208.3	59.837	.0685
#1	-.00013	.00026	-.00033	1.001
#2	-.00048	-.00029	-.00013	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5723.3**	**7071.7**	**29450.**	**88918.**
Stddev	4.3	11.2	66.	419.
%RSD	.07593	.15811	.22580	.47118
#1	5726.4	7079.6	29497.	88622.
#2	5720.3	7063.8	29403.	89215.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 17:11:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00455**	**.20519**	**.01491**	**.01925**	**.00182**
Stddev	.00008	.00503	.00079	.00039	.00005
%RSD	1.8505	2.4526	5.3015	2.0261	2.6570
#1	.00449	.20163	.01435	.01897	.00179
#2	.00461	.20874	.01547	.01952	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.49446**	**.00234**	**-.0256**	**.00412**
Stddev	.00001	.00116	.00033	.0113	.00003
%RSD	.52037	.23452	14.205	44.04	.73994
#1	.00187	.49364	.00211	-.0177	.00410
#2	.00188	.49528	.00258	-.0336	.00414
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	**.00910**	**.04580**	**.50661**	**.02987**
Stddev	.00042	.00007	.00147	.02671	.00176
%RSD	9.6774	.80753	3.2002	5.2714	5.8997
#1	.00458	.00905	.04684	.48773	.02863
#2	.00400	.00915	.04476	.52549	.03112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/9/2023 17:11:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20083**	**.00358**	**.01082**	**.98698**	**.01024**
Stddev	.00141	.00010	.00021	.01775	.00023
%RSD	.70153	2.8783	1.9808	1.7983	2.2940
#1	.19984	.00365	.01067	.97443	.01007
#2	.20183	.00350	.01098	.99953	.01040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00979**	**.19939**	**.02253**	**.02316**
Stddev	.00	.00035	.00176	.00300	.00037
%RSD	.0023	3.5633	.88171	13.302	1.5787
#1	25.00	.00955	.19815	.02041	.02341
#2	25.00	.01004	.20063	.02465	.02290
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49855**	**.01009**	**.00480**	F **1.001**	**.00538**
Stddev	.01052	.00061	.00003	.005	.00039
%RSD	2.1097	6.0419	.71797	.5038	7.2885
#1	.49112	.01052	.00483	.9973	.00566
#2	.50599	.00966	.00478	1.004	.00510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 17:11:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01935**	**.00430**	**.00933**	F **.9988**
Stddev	.00112	.00018	.00006	.0005
%RSD	5.7682	4.3020	.69508	.0514
#1	.02013	.00443	.00938	.9991
#2	.01856	.00417	.00929	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5561.9**	**6926.4**	**30145.**	**87482.**
Stddev	16.2	24.0	157.	127.
%RSD	.29086	.34650	.52170	.14532
#1	5573.3	6943.4	30034.	87392.
#2	5550.5	6909.4	30256.	87572.

Sample Name: 480-212820-A-88-C@50 Acquired: 10/9/2023 17:15:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**3.1814**	**.01019**	**.00820**	**.55931**
Stddev	.00020	.1306	.00085	.00056	.01143
%RSD	88.385	4.1066	8.3130	6.8519	2.0429
#1	-.00037	3.0890	.00959	.00781	.55123
#2	-.00008	3.2738	.01079	.00860	.56738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**9.2146**	**.00141**	**-.0218**	**.15725**
Stddev	.00001	.3705	.00016	.0078	.00305
%RSD	28.110	4.0211	11.341	35.54	1.9399
#1	-.00003	8.9526	.00130	-.0273	.15509
#2	-.00005	9.4766	.00152	-.0163	.15941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9555**	**.12145**	**31.322**	**.23726**	**.00539**
Stddev	.1062	.00274	1.292	.05311	.00065
%RSD	3.5925	2.2520	4.1251	22.384	11.985
#1	2.8804	.11952	30.409	.27481	.00585
#2	3.0306	.12339	32.236	.19971	.00493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-88-C@50 Acquired: 10/9/2023 17:15:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8344**	**.69635**	**.11023**	**.03936**	**2.2441**
Stddev	.1113	.01896	.00151	.00480	.0408
%RSD	2.3025	2.7228	1.3713	12.185	1.8179
#1	4.7557	.68295	.10916	.03597	2.2153
#2	4.9131	.70976	.11129	.04275	2.2729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.05431**	**.20690**	F **-.04644**	**.00325**
Stddev	.00	.00161	.00087	.00287	.00082
%RSD	.0037	2.9707	.41958	6.1779	25.113
#1	25.05	.05317	.20629	-.04441	.00383
#2	25.05	.05545	.20752	-.04847	.00268
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40414**	**.00791**	**.02837**	**1.021**	**.42883**
Stddev	.03269	.00143	.00104	.010	.01052
%RSD	8.0891	18.016	3.6602	.9488	2.4541
#1	.38103	.00690	.02764	1.028	.42139
#2	.42726	.00892	.02911	1.015	.43627
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-88-C@50 Acquired: 10/9/2023 17:15:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.04402**	**.05335**	**1.005**
Stddev	.00091	.00152	.00169	.000
%RSD	192.81	3.4544	3.1599	.0036
#1	.00017	.04295	.05216	1.005
#2	-.00112	.04510	.05454	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5667.0**	**7080.6**	**30621.**	**88878.**
Stddev	5.6	5.2	472.	1303.
%RSD	.09817	.07302	1.5425	1.4662
#1	5663.1	7076.9	30955.	89800.
#2	5670.9	7084.3	30287.	87957.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.667%	100.21%	104.32%	99.681%
Range				

Sample Name: 480-212820-A-89-C@20 Acquired: 10/9/2023 17:18:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**7.5345**	**.01801**	**.01869**	**1.4028**
Stddev	.00198	.2779	.00071	.00088	.0573
%RSD	1281.0	3.6878	3.9613	4.6927	4.0814
#1	.00156	7.3380	.01750	.01807	1.3623
#2	-.00125	7.7309	.01851	.01931	1.4433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**21.890**	**.00168**	**-.0295**	**.35579**
Stddev	.00015	.930	.00010	.0516	.00459
%RSD	95.461	4.2491	5.7668	175.3	1.2909
#1	.00005	21.233	.00161	.0071	.35254
#2	.00026	22.548	.00175	-.0660	.35903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9703**	**.84871**	**50.014**	**.49572**	**.00935**
Stddev	.0263	.00541	2.343	.00977	.00205
%RSD	.66358	.63778	4.6837	1.9704	21.881
#1	3.9517	.84488	48.358	.50263	.00791
#2	3.9890	.85254	51.671	.48882	.01080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-89-C@20 Acquired: 10/9/2023 17:18:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.583**	**1.4378**	**.26696**	**.19989**	**3.9737**
Stddev	.124	.0117	.00265	.02095	.0546
%RSD	.98630	.81376	.99123	10.483	1.3749
#1	12.495	1.4295	.26509	.18507	3.9351
#2	12.670	1.4460	.26883	.21470	4.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.16105**	**.47806**	F **-.05983**	**.00091**
Stddev	.00	.00300	.00576	.00089	.00031
%RSD	.0066	1.8600	1.2054	1.4937	33.499
#1	25.12	.15893	.47399	-.06046	.00070
#2	25.12	.16317	.48214	-.05920	.00113
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97121**	**.06623**	**.07302**	**1.025**	**1.5971**
Stddev	.04888	.00117	.00297	.002	.0151
%RSD	5.0325	1.7718	4.0738	.2229	.94447
#1	.93665	.06540	.07092	1.023	1.5865
#2	1.0058	.06706	.07512	1.026	1.6078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-89-C@20 Acquired: 10/9/2023 17:18:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.12775**	**.14459**	**1.017**
Stddev	.00036	.00042	.00105	.000
%RSD	26.733	.33262	.72758	.0103
#1	-.00160	.12745	.14385	1.017
#2	-.00109	.12805	.14533	1.017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5602.0**	**7039.3**	**30339.**	**88807.**
Stddev	3.3	.7	104.	666.
%RSD	.05958	.01027	.34307	.75009
#1	5599.6	7038.8	30266.	89278.
#2	5604.4	7039.8	30413.	88336.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.535%	99.627%	103.36%	99.602%
Range				

Sample Name: 480-212820-A-90-C@10 Acquired: 10/9/2023 17:22:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**16.029**	**.03000**	**.06181**	**2.8355**
Stddev	.00031	.604	.00165	.00106	.0929
%RSD	66.307	3.7682	5.4863	1.7078	3.2759
#1	-.00068	15.601	.02884	.06106	2.7698
#2	-.00024	16.456	.03117	.06256	2.9011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**47.484**	**.00411**	**.0379**	**.32856**
Stddev	.00017	1.709	.00084	.0451	.00212
%RSD	28.219	3.5992	20.560	119.0	.64560
#1	.00049	46.276	.00471	.0697	.32706
#2	.00073	48.693	.00351	.0060	.33006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2411**	**4.1027**	**64.703**	**1.2396**	**.02209**
Stddev	.1321	.0951	2.434	.0654	.00161
%RSD	2.5195	2.3181	3.7617	5.2796	7.2718
#1	5.1478	4.0355	62.982	1.1933	.02095
#2	5.3345	4.1700	66.424	1.2859	.02322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-90-C@10 Acquired: 10/9/2023 17:22:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.591**	**1.4570**	**.23854**	**.40787**	**4.3799**
Stddev	.624	.0347	.00144	.00007	.0313
%RSD	2.4393	2.3793	.60273	.01607	.71373
#1	25.149	1.4325	.23752	.40782	4.3578
#2	26.032	1.4815	.23956	.40792	4.4020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.37**	**.33353**	**1.0605**	F **-.08232**	**.00594**
Stddev	.01	.00271	.0091	.00098	.00203
%RSD	.0231	.81302	.85664	1.1962	34.091
#1	25.36	.33162	1.0541	-.08162	.00451
#2	25.37	.33545	1.0670	-.08302	.00737
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4812**	**.03426**	**.21278**	**1.035**	**2.1136**
Stddev	.1065	.00063	.00725	.000	.0508
%RSD	4.2903	1.8515	3.4054	.0152	2.4051
#1	2.4060	.03381	.20765	1.036	2.0777
#2	2.5565	.03471	.21790	1.035	2.1496
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-90-C@10 Acquired: 10/9/2023 17:22:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.16075**	**.63291**	**1.015**
Stddev	.00036	.00351	.01744	.001
%RSD	28.780	2.1818	2.7554	.0452
#1	-.00100	.15827	.62058	1.014
#2	-.00151	.16323	.64525	1.015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5367.0**	**6799.8**	**29754.**	**85959.**
Stddev	4.2	1.0	598.	918.
%RSD	.07918	.01415	2.0085	1.0684
#1	5364.0	6800.4	30177.	86609.
#2	5370.1	6799.1	29331.	85310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.444%	96.236%	101.37%	96.408%
Range				

Sample Name: 480-212820-A-94-C@10 Acquired: 10/9/2023 17:25:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**10.190**	**.02578**	**.02000**	**1.9736**
Stddev	.00053	.364	.00118	.00033	.0560
%RSD	791.27	3.5755	4.5877	1.6363	2.8361
#1	-.00044	9.9327	.02661	.01977	1.9340
#2	.00031	10.448	.02494	.02023	2.0132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**24.657**	**.00206**	**.0285**	**.22936**
Stddev	.00004	.785	.00005	.0170	.00047
%RSD	6.7899	3.1819	2.4333	59.53	.20279
#1	.00059	24.103	.00202	.0165	.22968
#2	.00054	25.212	.00210	.0405	.22903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9181**	**.29183**	**53.544**	**.88591**	**.01315**
Stddev	.0893	.00462	1.872	.04436	.00063
%RSD	1.8148	1.5828	3.4967	5.0069	4.8220
#1	4.8550	.28856	52.220	.85455	.01270
#2	4.9812	.29510	54.868	.91728	.01360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-94-C@10 Acquired: 10/9/2023 17:25:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.317**	**1.0430**	**.16950**	**.19752**	**4.1736**
Stddev	.156	.0160	.00027	.00195	.0079
%RSD	1.3810	1.5343	.15658	.98551	.18938
#1	11.206	1.0317	.16969	.19890	4.1680
#2	11.427	1.0543	.16932	.19615	4.1792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.35**	**.14022**	**.65115**	F **-.07852**	**.00232**
Stddev	.00	.00078	.00382	.00278	.00222
%RSD	.0099	.55958	.58671	3.5389	95.743
#1	25.35	.13967	.64845	-.07655	.00075
#2	25.36	.14078	.65385	-.08048	.00390
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3895**	**.01756**	**.13368**	**1.029**	**1.8352**
Stddev	.0695	.00056	.00409	.008	.0321
%RSD	2.9091	3.1818	3.0616	.7884	1.7479
#1	2.3403	.01716	.13079	1.035	1.8125
#2	2.4386	.01795	.13658	1.023	1.8579
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-94-C@10 Acquired: 10/9/2023 17:25:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**.11823**	**.11106**	**1.009**
Stddev	.00110	.00226	.00119	.001
%RSD	373.54	1.9152	1.0708	.0691
#1	-.00048	.11663	.11022	1.008
#2	.00107	.11983	.11190	1.009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5474.8**	**6927.1**	**29898.**	**87594.**
Stddev	1.5	.9	357.	524.
%RSD	.02791	.01342	1.1930	.59774
#1	5475.8	6926.4	30150.	87964.
#2	5473.7	6927.7	29646.	87224.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.320%	98.038%	101.86%	98.241%
Range				

Sample Name: 480-212820-A-95-G@20 Acquired: 10/9/2023 17:28:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**4.7036**	**.01795**	**.01887**	**1.0895**
Stddev	.00074	.0921	.00195	.00053	.0123
%RSD	327.45	1.9588	10.851	2.8171	1.1252
#1	.00075	4.6384	.01658	.01849	1.0808
#2	-.00030	4.7687	.01933	.01924	1.0982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**19.997**	**.00708**	**-.0220**	**.29453**
Stddev	.00004	.283	.00020	.0216	.00140
%RSD	1179.4	1.4149	2.8715	98.11	.47685
#1	-.00002	19.797	.00722	-.0068	.29552
#2	.00003	20.197	.00693	-.0373	.29353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3433**	**.28555**	**61.709**	**.26264**	**.00758**
Stddev	.0277	.00137	1.024	.02474	.00331
%RSD	.37712	.47899	1.6590	9.4207	43.697
#1	7.3238	.28458	60.985	.28014	.00993
#2	7.3629	.28652	62.433	.24514	.00524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-95-G@20 Acquired: 10/9/2023 17:28:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.555**	**2.6198**	**.28555**	**.08870**	**7.0487**
Stddev	.038	.0132	.00015	.00862	.0223
%RSD	.33082	.50236	.05380	9.7179	.31625
#1	11.528	2.6105	.28566	.09479	7.0645
#2	11.582	2.6291	.28544	.08260	7.0329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**.11535**	**.36271**	F **-.11810**	**.00322**
Stddev	.00	.00019	.00161	.00613	.00268
%RSD	.0017	.16449	.44348	5.1893	83.254
#1	25.09	.11548	.36157	-.11376	.00512
#2	25.09	.11521	.36385	-.12243	.00133
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39349**	**.01911**	**.06285**	**1.028**	**1.1750**
Stddev	.01276	.00027	.00101	.001	.0056
%RSD	3.2424	1.4050	1.6119	.0472	.47252
#1	.38447	.01892	.06214	1.029	1.1710
#2	.40251	.01930	.06357	1.028	1.1789
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-95-G@20 Acquired: 10/9/2023 17:28:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00091**	**.11188**	**.06397**	**1.011**
Stddev	.00083	.00063	.00043	.001
%RSD	90.519	.56720	.67958	.0573
#1	-.00033	.11143	.06366	1.011
#2	-.00150	.11233	.06427	1.010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5437.2**	**6792.3**	**28952.**	**85951.**
Stddev	14.9	2.6	63.	75.
%RSD	.27416	.03841	.21875	.08738
#1	5426.7	6790.5	28907.	86004.
#2	5447.8	6794.2	28997.	85898.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.667%	96.132%	98.637%	96.398%
Range				

Sample Name: 212820-A-95-H MS@20 Acquired: 10/9/2023 17:32:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00491**	**9.1777**	**.03591**	**.04779**	**.67637**
Stddev	.00042	.2788	.00087	.00000	.01360
%RSD	8.5849	3.0383	2.4294	.00769	2.0100
#1	.00520	8.9806	.03652	.04779	.66676
#2	.00461	9.3749	.03529	.04779	.68599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02055**	**20.173**	**.02200**	**-.0223**	**.20053**
Stddev	.00071	.513	.00065	.0090	.00146
%RSD	3.4387	2.5451	2.9714	40.37	.72672
#1	.02005	19.810	.02246	-.0287	.20156
#2	.02104	20.536	.02153	-.0159	.19949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0626**	**.19813**	**45.733**	**2.0325**	**.03169**
Stddev	.1715	.00430	1.456	.0196	.00070
%RSD	2.8290	2.1704	3.1825	.96501	2.1932
#1	5.9413	.19509	44.704	2.0186	.03120
#2	6.1838	.20117	46.762	2.0464	.03218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-95-H MS@20 Acquired: 10/9/2023 17:32:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.031**	**1.0932**	**.33416**	**1.2077**	**4.7303**
Stddev	.377	.0268	.00389	.0096	.0332
%RSD	1.8815	2.4500	1.1633	.79845	.70170
#1	19.764	1.0743	.33691	1.2009	4.7538
#2	20.297	1.1121	.33141	1.2145	4.7069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.15**	**.09629**	**1.3275**	F **-.08074**	**.02347**
Stddev	.00	.00198	.0090	.00544	.00008
%RSD	.0013	2.0537	.68005	6.7376	.33538
#1	25.15	.09769	1.3339	-.07689	.02353
#2	25.15	.09489	1.3211	-.08458	.02341
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.32037**	**.03259**	**.12111**	**1.021**	**1.7491**
Stddev	.00706	.00026	.00314	.001	.0423
%RSD	2.2037	.78640	2.5887	.1037	2.4208
#1	.32536	.03241	.11889	1.022	1.7192
#2	.31537	.03277	.12333	1.020	1.7791
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-95-H MS@20 Acquired: 10/9/2023 17:32:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.02037**	**.14068**	**.10289**	**1.010**
Stddev	.00065	.00222	.00246	.000
%RSD	3.1666	1.5782	2.3954	.0382
#1	.01991	.13911	.10114	1.010
#2	.02083	.14225	.10463	1.009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5410.0**	**6764.9**	**28590.**	**86948.**
Stddev	17.7	35.1	511.	251.
%RSD	.32742	.51890	1.7869	.28902
#1	5397.5	6740.1	28951.	87125.
#2	5422.5	6789.7	28228.	86770.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.192%	95.744%	97.402%	97.516%
Range				

Sample Name: 212820-A-95-I MS@20 Acquired: 10/9/2023 17:35:36 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**8.2249**	**.03723**	**.04511**	**.99812**
Stddev	.00138	.3263	.00109	.00109	.03194
%RSD	28.597	3.9678	2.9236	2.4185	3.2002
#1	.00386	7.9941	.03800	.04589	.97553
#2	.00582	8.4556	.03646	.04434	1.0207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02126**	**26.929**	**.02274**	**-.0074**	**.23302**
Stddev	.00084	.859	.00011	.0002	.00043
%RSD	3.9555	3.1913	.47391	3.105	.18470
#1	.02067	26.321	.02282	-.0075	.23332
#2	.02185	27.537	.02267	-.0072	.23271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9759**	**.20397**	**55.048**	**1.5647**	**.02877**
Stddev	.0532	.00069	1.821	.0461	.00354
%RSD	.76196	.33930	3.3079	2.9456	12.296
#1	6.9383	.20348	53.761	1.5321	.03127
#2	7.0134	.20445	56.336	1.5973	.02627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-95-I MS@20 Acquired: 10/9/2023 17:35:36 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.627**	**1.2056**	**.30711**	**1.2134**	**4.0267**
Stddev	.139	.0070	.00159	.0404	.0114
%RSD	.78948	.58503	.51804	3.3258	.28355
#1	17.529	1.2006	.30824	1.1849	4.0348
#2	17.726	1.2106	.30599	1.2420	4.0186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**.13973**	**1.3930**	F **-.09208**	**.02174**
Stddev	.00	.00201	.0141	.00043	.00033
%RSD	.0032	1.4349	1.0129	.46907	1.5390
#1	25.09	.13831	1.4030	-.09238	.02198
#2	25.09	.14115	1.3830	-.09177	.02151
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02234**	**.03599**	**.09800**	**1.026**	**3.0814**
Stddev	.01333	.00001	.00306	.004	.0220
%RSD	59.691	.01530	3.1215	.4385	.71467
#1	.01291	.03598	.09584	1.029	3.0658
#2	.03177	.03599	.10016	1.022	3.0970
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-95-I MS@20 Acquired: 10/9/2023 17:35:36 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.01979**	**.18630**	**.08477**	**1.014**
Stddev	.00064	.00009	.00035	.001
%RSD	3.2107	.04885	.40786	.0873
#1	.01934	.18636	.08453	1.014
#2	.02024	.18624	.08502	1.013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5420.8**	**6786.8**	**29282.**	**86176.**
Stddev	1.7	2.9	67.	650.
%RSD	.03064	.04275	.22785	.75452
#1	5422.0	6784.8	29329.	86636.
#2	5419.7	6788.9	29235.	85717.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.381%	96.054%	99.760%	96.651%
Range				

Sample Name: 480-212820-A-96-C@10 Acquired: 10/9/2023 17:38:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**15.134**	**.04237**	**.06048**	**1.8740**
Stddev	.00041	.304	.00008	.00029	.0350
%RSD	975.53	2.0077	.19850	.47203	1.8680
#1	.00025	14.920	.04231	.06069	1.8493
#2	-.00033	15.349	.04243	.06028	1.8988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**68.724**	**.00393**	**-.0872**	**.25212**
Stddev	.00003	1.403	.00009	.0012	.00207
%RSD	13.033	2.0420	2.3639	1.363	.82030
#1	.00021	67.732	.00387	-.0880	.25358
#2	.00025	69.717	.00400	-.0863	.25066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7508**	**.34153**	**57.546**	**.64819**	**.01956**
Stddev	.0796	.00586	1.338	.01191	.00265
%RSD	1.6766	1.7161	2.3243	1.8376	13.554
#1	4.6945	.33739	56.600	.63976	.02144
#2	4.8071	.34568	58.492	.65661	.01769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-96-C@10 Acquired: 10/9/2023 17:38:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.979**	**2.1015**	**.30227**	**.33341**	**4.7808**
Stddev	.470	.0289	.00185	.01854	.0223
%RSD	1.2380	1.3769	.61322	5.5598	.46713
#1	37.647	2.0810	.30358	.32030	4.7966
#2	38.312	2.1220	.30096	.34652	4.7650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.69**	**.39336**	**.62092**	F **-.07322**	**.01006**
Stddev	.00	.00111	.00914	.00226	.00690
%RSD	.0058	.28255	1.4717	3.0818	68.572
#1	25.69	.39415	.61446	-.07162	.00518
#2	25.69	.39257	.62738	-.07481	.01493
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3670**	**.02349**	**.15054**	**1.029**	**2.9579**
Stddev	.0352	.00025	.00262	.000	.0447
%RSD	1.4872	1.0557	1.7430	.0385	1.5126
#1	2.3421	.02367	.14868	1.029	2.9262
#2	2.3919	.02332	.15239	1.029	2.9895
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-96-C@10 Acquired: 10/9/2023 17:38:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.21686**	**.16474**	**1.019**
Stddev	.00089	.00345	.00224	.000
%RSD	99.791	1.5920	1.3616	.0033
#1	-.00152	.21442	.16315	1.019
#2	-.00026	.21931	.16633	1.019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5328.5**	**6741.9**	**29267.**	**84882.**
Stddev	7.7	8.4	321.	250.
%RSD	.14454	.12515	1.0983	.29454
#1	5323.1	6747.8	29494.	85059.
#2	5334.0	6735.9	29039.	84706.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.774%	95.417%	99.708%	95.200%
Range				

Sample Name: 212820-A-97-C@100 Acquired: 10/9/2023 17:42:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**1.7922**	**.00303**	**.00446**	**.23670**
Stddev	.00006	.0230	.00269	.00006	.00303
%RSD	61.557	1.2838	88.841	1.2972	1.2816
#1	-.00014	1.7759	.00493	.00442	.23456
#2	-.00005	1.8084	.00113	.00450	.23885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**8.4985**	**.00025**	**-.0497**	**.09370**
Stddev	.00005	.1533	.00101	.0084	.00052
%RSD	46.915	1.8041	407.41	16.99	.55971
#1	-.00015	8.3901	.00096	-.0557	.09407
#2	-.00008	8.6069	-.00047	-.0437	.09333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5945**	**.06461**	**11.606**	**.05733**	**.00003**
Stddev	.0077	.00018	.181	.02794	.00031
%RSD	.48314	.28093	1.5587	48.733	967.76
#1	1.5891	.06474	11.478	.03758	-.00019
#2	1.5999	.06448	11.734	.07709	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-97-C@100 Acquired: 10/9/2023 17:42:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8912**	**.43815**	**.06003**	**.00885**	**.90035**
Stddev	.0201	.00291	.00018	.01575	.00122
%RSD	.69392	.66463	.30128	177.86	.13568
#1	2.8770	.43609	.05990	.01999	.90121
#2	2.9053	.44021	.06016	-.00228	.89948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.02047**	**.08385**	F **-.02427**	**.00242**
Stddev	.00	.00123	.00048	.00101	.00025
%RSD	.0014	6.0242	.57516	4.1726	10.490
#1	25.01	.01960	.08420	-.02356	.00260
#2	25.01	.02134	.08351	-.02499	.00224
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10660**	**.00393**	**.01358**	**1.012**	**.25198**
Stddev	.00718	.00007	.00014	.001	.00264
%RSD	6.7315	1.6758	1.0628	.1403	1.0464
#1	.10153	.00389	.01348	1.011	.25012
#2	.11168	.00398	.01368	1.013	.25384
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-97-C@100 Acquired: 10/9/2023 17:42:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.44908**	**.01885**	**1.007**
Stddev	.00112	.00290	.00030	.000
%RSD	170.43	.64513	1.5955	.0104
#1	-.00145	.44704	.01863	1.007
#2	.00013	.45113	.01906	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5529.6**	**6887.9**	**30208.**	**87529.**
Stddev	8.9	3.3	32.	253.
%RSD	.16067	.04811	.10752	.28901
#1	5523.3	6890.2	30231.	87707.
#2	5535.9	6885.5	30185.	87350.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.275%	97.483%	102.92%	98.168%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 17:45:38 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98661**	**49.832**	**1.0057**	**1.0011**	**.98923**
Stddev	.00868	1.143	.0026	.0001	.01796
%RSD	.88008	2.2933	.25381	.00939	1.8153
#1	.98047	49.024	1.0075	1.0010	.97653
#2	.99275	50.640	1.0039	1.0011	1.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99597**	**49.350**	**1.0102**	**1.017**	**1.0076**
Stddev	.02300	.859	.0006	.040	.0020
%RSD	2.3093	1.7412	.06028	3.934	.19930
#1	.97971	48.743	1.0106	.9885	1.0090
#2	1.0122	49.958	1.0097	1.045	1.0062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97442**	**.97219**	**49.639**	**49.502**	**.98151**
Stddev	.01120	.00976	.950	.909	.01848
%RSD	1.1491	1.0038	1.9136	1.8372	1.8828
#1	.96650	.96529	48.967	48.859	.96844
#2	.98234	.97910	50.311	50.145	.99457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 17:45:38 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.172**	**.98621**	**1.0026**	**49.864**	**1.0084**
Stddev	.691	.01067	.0060	.985	.0022
%RSD	1.3773	1.0815	.59498	1.9761	.22045
#1	49.683	.97867	1.0068	49.167	1.0100
#2	50.660	.99376	.99833	50.561	1.0068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.53**	**1.0103**	**24.736**	**1.0026**	**1.0006**
Stddev	.02	.0010	.011	.0023	.0039
%RSD	.0647	.09749	.04279	.22754	.38626
#1	37.54	1.0110	24.729	1.0042	1.0033
#2	37.51	1.0096	24.744	1.0009	.99783
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.020**	**1.0020**	**.99672**	**1.497**	**.98326**
Stddev	.302	.0018	.02465	.015	.01142
%RSD	3.0180	.18133	2.4730	1.010	1.1615
#1	9.8065	1.0033	.97929	1.486	.97518
#2	10.234	1.0007	1.0141	1.508	.99133
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 17:45:38 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0042**	**.98235**	**.99796**	**1.492**
Stddev	.0023	.01470	.01324	.010
%RSD	.22917	1.4965	1.3266	.6793
#1	1.0026	.97195	.98860	1.484
#2	1.0058	.99274	1.0073	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5194.3**	**6708.7**	**29079.**	**83412.**
Stddev	2.4	1.0	161.	587.
%RSD	.04657	.01441	.55273	.70328
#1	5192.6	6708.1	29193.	83826.
#2	5196.0	6709.4	28965.	82997.

Sample Name: CCB-7506043 Acquired: 10/9/2023 17:48:51 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.01138**	**.00032**	**.00003**	**-.00004**
Stddev	.00010	.02274	.00014	.00058	.00003
%RSD	22.690	199.80	43.776	2039.5	78.407
#1	-.00038	-.02746	.00041	.00043	-.00002
#2	-.00053	.00470	.00022	-.00038	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00809**	**.00011**	**-.0160**	**-.00006**
Stddev	.00002	.00067	.00008	.0077	.00013
%RSD	11.436	8.2587	72.172	47.93	218.05
#1	-.00017	-.00856	.00017	-.0106	.00003
#2	-.00020	-.00761	.00006	-.0214	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00007**	**-.00315**	**.00649**	**-.00084**
Stddev	.00034	.00036	.00175	.01420	.00753
%RSD	73.818	487.66	55.492	218.73	898.28
#1	.00071	.00018	-.00191	.01653	.00449
#2	.00022	-.00033	-.00438	-.00355	-.00617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 17:48:51 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00045**	**.00151**	**-.01605**	**.00010**
Stddev	.00157	.00016	.00052	.00784	.00023
%RSD	716.77	36.441	34.789	48.858	228.38
#1	.00133	.00057	.00114	-.02160	.00027
#2	-.00089	.00033	.00188	-.01051	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00036**	**.00005**	**.00073**	**.00372**
Stddev	.00	.00007	.00119	.00088	.00159
%RSD	.0000	20.274	2438.5	119.75	42.868
#1	25.00	.00031	-.00079	.00011	.00484
#2	25.00	.00041	.00089	.00135	.00259
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01225**	**-.00014**	**-.00017**	**1.003**	**.00006**
Stddev	.00463	.00035	.00013	.004	.00016
%RSD	37.748	257.42	80.705	.4467	240.38
#1	-.00898	.00011	-.00007	1.006	-.00005
#2	-.01552	-.00039	-.00026	1.0000	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 17:48:51 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00046**	**-.00045**	**1.001**
Stddev	.00033	.00017	.00025	.000
%RSD	103.28	35.984	56.241	.0364
#1	.00055	-.00034	-.00063	1.002
#2	.00009	-.00058	-.00027	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5715.4**	**7086.9**	**30010.**	**87828.**
Stddev	5.4	9.5	184.	610.
%RSD	.09371	.13364	.61442	.69463
#1	5711.6	7080.2	29880.	87396.
#2	5719.2	7093.6	30141.	88259.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 17:52:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00507**	**.15708**	**.01609**	**.01912**	**.00191**
Stddev	.00067	.00222	.00082	.00005	.00001
%RSD	13.161	1.4110	5.0724	.28119	.37945
#1	.00554	.15865	.01551	.01909	.00191
#2	.00460	.15551	.01667	.01916	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**.49125**	**.00153**	**-.0104**	**.00373**
Stddev	.00006	.01438	.00041	.0354	.00005
%RSD	3.2291	2.9276	26.508	338.5	1.2937
#1	.00173	.48108	.00182	.0146	.00377
#2	.00181	.50142	.00124	-.0355	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00466**	**.01039**	**.04026**	**.52419**	**.03304**
Stddev	.00025	.00027	.00104	.00908	.00147
%RSD	5.4073	2.6114	2.5712	1.7324	4.4598
#1	.00448	.01020	.04099	.51776	.03200
#2	.00483	.01058	.03953	.53061	.03409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/9/2023 17:52:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19416**	**.00333**	**.00997**	**1.0184**	**.01047**
Stddev	.00714	.00007	.00018	.0203	.00005
%RSD	3.6751	1.9720	1.7932	1.9956	.46873
#1	.18912	.00329	.00984	1.0040	.01044
#2	.19921	.00338	.01010	1.0328	.01051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00947**	**.20167**	**.02095**	**.02471**
Stddev	.00	.00038	.00081	.00231	.00202
%RSD	.0022	4.0436	.40376	11.036	8.1549
#1	25.00	.00974	.20110	.02259	.02329
#2	25.00	.00920	.20225	.01932	.02614
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49762**	**.01004**	**.00471**	F **1.001**	**.00484**
Stddev	.02847	.00031	.00006	.002	.00032
%RSD	5.7206	3.1042	1.2853	.2245	6.6605
#1	.47749	.00982	.00467	1.003	.00461
#2	.51775	.01026	.00475	.9998	.00507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 17:52:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01972**	**.00477**	**.00984**	F **1.000**
Stddev	.00003	.00013	.00020	.000
%RSD	.15764	2.7776	2.0305	.0363
#1	.01970	.00467	.00970	1.000
#2	.01975	.00486	.00998	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5503.7**	**6849.3**	**29603.**	**86095.**
Stddev	10.7	3.3	253.	574.
%RSD	.19476	.04819	.85404	.66642
#1	5496.1	6846.9	29782.	86501.
#2	5511.3	6851.6	29424.	85689.

Sample Name: 212820-A-102-B@100 Acquired: 10/9/2023 17:55:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.43199**	**.00457**	**.00175**	**1.1943**
Stddev	.00009	.00222	.00095	.00016	.0421
%RSD	74.730	.51432	20.911	8.8671	3.5263
#1	-.00006	.43042	.00389	.00186	1.1645
#2	-.00019	.43356	.00524	.00164	1.2241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**1.2954**	**.00035**	**-.0206**	**.08703**
Stddev	.00008	.0452	.00042	.0401	.00021
%RSD	76.417	3.4929	119.06	195.0	.24395
#1	-.00017	1.2634	.00065	-.0490	.08718
#2	-.00005	1.3274	.00006	.0078	.08688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0435**	**.07969**	**19.521**	**-.00357**	**.00092**
Stddev	.1143	.00258	.768	.02778	.00101
%RSD	2.8261	3.2336	3.9349	777.74	109.37
#1	3.9627	.07787	18.977	.01607	.00163
#2	4.1243	.08151	20.064	-.02321	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-102-B@100 Acquired: 10/9/2023 17:55:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.64719**	**.44132**	**.20040**	**-.00120**	**2.4393**
Stddev	.00969	.00953	.00120	.00155	.0106
%RSD	1.4965	2.1583	.60123	128.97	.43521
#1	.64034	.43459	.20126	-.00230	2.4468
#2	.65404	.44806	.19955	-.00011	2.4317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.01453**	**.19200**	F **-.06222**	**.00287**
Stddev	.00	.00118	.00083	.00115	.00380
%RSD	.0036	8.1139	.43214	1.8475	132.44
#1	25.00	.01370	.19258	-.06141	.00556
#2	25.00	.01537	.19141	-.06304	.00018
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06321**	**.00530**	**.00801**	**1.012**	**.05773**
Stddev	.00040	.00014	.00029	.000	.00140
%RSD	.62923	2.6713	3.5786	.0291	2.4291
#1	.06349	.00540	.00781	1.012	.05674
#2	.06293	.00520	.00821	1.012	.05872
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-102-B@100 Acquired: 10/9/2023 17:55:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.02093**	**.01444**	**1.001**
Stddev	.00099	.00057	.00065	.001
%RSD	131.49	2.7334	4.4989	.1033
#1	-.00146	.02053	.01398	1.001
#2	-.00005	.02134	.01490	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5525.7**	**6881.6**	**29253.**	**87297.**
Stddev	2.8	4.6	559.	977.
%RSD	.05072	.06655	1.9097	1.1193
#1	5523.8	6884.9	29648.	87988.
#2	5527.7	6878.4	28858.	86606.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.207%	97.395%	99.664%	97.908%
Range				

Sample Name: 212820-A-108-B@10 Acquired: 10/9/2023 17:59:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00225**	**21.711**	**.04729**	**.02233**	**1.7892**
Stddev	.00022	.493	.00087	.00024	.0294
%RSD	9.8155	2.2686	1.8458	1.0607	1.6439
#1	-.00240	21.363	.04667	.02250	1.7684
#2	-.00209	22.060	.04790	.02216	1.8100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**24.808**	**.00934**	**1.254**	**.18518**
Stddev	.00004	.370	.00062	.046	.00166
%RSD	7.4716	1.4905	6.6553	3.674	.89539
#1	.00050	24.547	.00890	1.222	.18635
#2	.00056	25.070	.00978	1.287	.18400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6791**	**.41783**	**51.158**	**1.7428**	**.02062**
Stddev	.0320	.00186	1.010	.0423	.00163
%RSD	.68442	.44631	1.9746	2.4246	7.9123
#1	4.6565	.41651	50.443	1.7129	.01947
#2	4.7018	.41915	51.872	1.7727	.02178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-108-B@10 Acquired: 10/9/2023 17:59:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.503**	**3.3709**	**.19083**	**.34974**	**2.7829**
Stddev	.052	.0219	.00135	.00708	.0195
%RSD	.41855	.64948	.70847	2.0251	.69967
#1	12.466	3.3554	.19179	.35475	2.7967
#2	12.540	3.3864	.18988	.34473	2.7691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.18**	**.23474**	**.59563**	F **-.07714**	**.00958**
Stddev	.00	.00180	.00023	.00074	.00335
%RSD	.0049	.76883	.03799	.95877	34.981
#1	25.18	.23602	.59579	-.07662	.00721
#2	25.18	.23347	.59547	-.07767	.01195
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4130**	**.03262**	**.05735**	**1.029**	**1.2647**
Stddev	.0135	.00051	.00101	.001	.0034
%RSD	.95534	1.5669	1.7569	.0547	.27236
#1	1.4035	.03299	.05663	1.030	1.2622
#2	1.4225	.03226	.05806	1.029	1.2671
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-108-B@10 Acquired: 10/9/2023 17:59:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01095**	**.12062**	**.20637**	**1.017**
Stddev	.00172	.00026	.00034	.000
%RSD	15.670	.21829	.16371	.0323
#1	-.00973	.12043	.20661	1.017
#2	-.01216	.12081	.20613	1.016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5430.8**	**6858.5**	**29733.**	**86009.**
Stddev	8.8	1.8	77.	365.
%RSD	.16184	.02612	.25949	.42418
#1	5424.6	6857.2	29788.	86267.
#2	5437.0	6859.7	29679.	85751.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.555%	97.068%	101.30%	96.463%
Range				

Sample Name: 480-212820-A-111-B Acquired: 10/9/2023 18:02:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00499**	**104.69**	**.82812**	k **3.2713**	F **42.172**
Stddev	.00017	.12	.03649	.2027	.550
%RSD	3.4522	.11680	4.4063	6.1968	1.3042
#1	k -.00487	104.60	.85392	k 3.4147	41.783
#2	k -.00511	104.78	.80232	k 3.1280	42.560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**274.72**	**.08978**	F **-.8882**	s **15.127**
Stddev	.00019	3.72	.00556	.0257	.767
%RSD	23.966	1.3538	6.1970	2.896	5.0724
#1	.00065	272.09	.09371	-.9064	s 15.670
#2	.00091	277.35	.08584	-.8700	s 14.585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.500	
Low Limit				-.5000	

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**20.641**	F **2226.2**	**13.441**	**.13994**
Stddev	-----	.190	.1	.047	.00394
%RSD	-----	.92079	.00547	.35209	2.8138
#1	^ -----	20.775	2226.3	13.408	.13715
#2	^ -----	20.507	2226.1	13.475	.14272
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			540.00		
Low Limit			-.05000		

Sample Name: 480-212820-A-111-B Acquired: 10/9/2023 18:02:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **137.76**	kF **57.717**	kF **58.008**	**2.9639**	sF **750.88**
Stddev	1.00	.332	3.804	.0092	7.48
%RSD	.72667	.57447	6.5583	.31035	.99555
#1	k 138.47	k 57.951	k 60.698	2.9705	s 756.17
#2	k 137.05	k 57.482	k 55.318	2.9574	s 745.59
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit		45.000	9.0000		9.0000
Low Limit		-.00300	-.01000		-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.68**	s **3.4888**	**11.709**	k **5.5026**	k **.11349**
Stddev	.17	.1321	.524	.4440	.00289
%RSD	.6141	3.7869	4.4738	8.0694	2.5500
#1	27.80	s 3.5823	12.079	k 5.8166	k .11145
#2	27.56	s 3.3954	11.339	k 5.1886	k .11554
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **20.282**	s **1.7496**	**1.0347**	**2.014**	k **10.842**
Stddev	.314	.0929	.0029	.011	.075
%RSD	1.5488	5.3077	.28022	.5304	.68740
#1	k 20.505	s 1.8153	1.0326	2.006	k 10.895
#2	k 20.060	s 1.6839	1.0367	2.021	k 10.789
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212820-A-111-B Acquired: 10/9/2023 18:02:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	s .29907	k 2.9261	k .64783	1.194
Stddev	.01300	.0170	.00280	.000
%RSD	4.3479	.58023	.43227	.0350
#1	s .30827	k 2.9381	k .64585	1.193
#2	s .28988	k 2.9141	k .64981	1.194
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	4023.2	27834.	82152.
Stddev	-----	56.9	168.	82.
%RSD	-----	1.4146	.60381	.09935
#1	^ -----	3983.0	27715.	82094.
#2	^ -----	4063.5	27953.	82209.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	63.952%	56.941%	94.829%	92.137%
Range				

Sample Name: 212820-A-111-B@10 Acquired: 10/9/2023 18:06:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**10.149**	**.06633**	**.01754**	**4.1819**
Stddev	.00048	.067	.00297	.00032	.0180
%RSD	52.788	.65855	4.4712	1.8041	.42946
#1	-.00125	10.102	.06843	.01776	4.1692
#2	-.00057	10.196	.06423	.01732	4.1946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**29.139**	**.00584**	**-.1164**	**1.3366**
Stddev	.00005	.098	.00044	.0199	.0167
%RSD	33.550	.33610	7.4925	17.13	1.2501
#1	-.00012	29.070	.00615	-.1305	1.3484
#2	-.00019	29.208	.00553	-.1023	1.3248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **57.025**	**1.9877**	**228.90**	**1.2859**	**.01344**
Stddev	.168	.0065	1.04	.0183	.00237
%RSD	.29399	.32758	.45495	1.4209	17.669
#1	56.907	1.9831	228.16	1.2730	.01512
#2	57.144	1.9923	229.64	1.2988	.01176
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 212820-A-111-B@10 Acquired: 10/9/2023 18:06:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.545**	**5.6831**	**4.3535**	**.25760**	F **95.185**
Stddev	.067	.0202	.0786	.00526	.571
%RSD	.43330	.35459	1.8056	2.0408	.60017
#1	15.498	5.6688	4.4091	.25388	95.589
#2	15.593	5.6973	4.2980	.26132	94.781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.19**	**.32698**	**.81726**	F **-.84667**	**.00778**
Stddev	.00	.00139	.00837	.01007	.00205
%RSD	.0132	.42548	1.0245	1.1894	26.390
#1	25.19	.32796	.82318	-.83955	.00923
#2	25.19	.32600	.81134	-.85379	.00632
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0147**	**.15766**	**.10089**	**1.119**	**1.1242**
Stddev	.0115	.00233	.00022	.003	.0029
%RSD	1.1347	1.4766	.21669	.2262	.26284
#1	1.0066	.15930	.10074	1.117	1.1221
#2	1.0229	.15601	.10105	1.120	1.1263
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-111-B@10 Acquired: 10/9/2023 18:06:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.01017**	**.37280**	**.17735**	**1.017**
Stddev	.00122	.00187	.00034	.000
%RSD	12.016	.50096	.19169	.0198
#1	.00931	.37412	.17711	1.017
#2	.01103	.37148	.17759	1.018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5141.0**	**6554.6**	**29910.**	**85215.**
Stddev	10.9	12.0	65.	460.
%RSD	.21111	.18319	.21701	.53971
#1	5148.7	6563.1	29956.	84890.
#2	5133.3	6546.1	29865.	85541.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.509%	92.766%	101.90%	95.573%
Range				

Sample Name: 212820-A-111-B@500 Acquired: 10/9/2023 18:10:13 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.54402**	**.00224**	**.00030**	**.21770**
Stddev	.00056	.01335	.00174	.00029	.00346
%RSD	106.14	2.4546	77.588	98.011	1.5871
#1	-.00013	.55346	.00348	.00009	.21525
#2	-.00092	.53458	.00101	.00050	.22014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**1.4670**	**.00069**	**-.0311**	**.06673**
Stddev	.00007	.0202	.00010	.0415	.00023
%RSD	32.947	1.3791	15.082	133.4	.33877
#1	-.00017	1.4527	.00062	-.0018	.06657
#2	-.00027	1.4813	.00077	-.0604	.06689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1313**	**.10156**	**11.663**	**.00211**	**.00238**
Stddev	.0689	.00073	.219	.01014	.00132
%RSD	2.1993	.71781	1.8796	480.92	55.351
#1	3.0826	.10104	11.508	-.00506	.00331
#2	3.1800	.10207	11.818	.00928	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-111-B@500 Acquired: 10/9/2023 18:10:13 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82718**	**.30654**	**.22609**	**-.00806**	**4.9415**
Stddev	.02023	.00579	.00009	.01947	.0032
%RSD	2.4463	1.8892	.03989	241.71	.06377
#1	.81287	.30244	.22603	.00571	4.9437
#2	.84149	.31063	.22616	-.02182	4.9393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.01576**	**.04550**	F **-.04495**	**-.00082**
Stddev	.00	.00023	.00059	.00087	.00178
%RSD	.0024	1.4508	1.3020	1.9380	215.39
#1	25.00	.01560	.04508	-.04433	.00043
#2	25.00	.01592	.04592	-.04556	-.00208
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05008**	**.00747**	**.00497**	**1.010**	**.05940**
Stddev	.00375	.00020	.00005	.002	.00156
%RSD	7.4966	2.7275	.92251	.1464	2.6233
#1	.05274	.00733	.00494	1.009	.05829
#2	.04743	.00761	.00500	1.011	.06050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-111-B@500 Acquired: 10/9/2023 18:10:13 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.01954**	**.01115**	**1.000**
Stddev	.00082	.00034	.00030	.001
%RSD	65.149	1.7345	2.7113	.0564
#1	-.00068	.01930	.01136	1.001
#2	-.00185	.01978	.01093	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5539.2**	**6952.1**	**30361.**	**86935.**
Stddev	6.4	10.8	279.	123.
%RSD	.11498	.15463	.91736	.14176
#1	5534.7	6944.5	30558.	87022.
#2	5543.7	6959.7	30164.	86848.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.442%	98.392%	103.44%	97.502%
Range				

Sample Name: 212820-A-112-B@10 Acquired: 10/9/2023 18:13:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00523**	**15.059**	**.02310**	**.05879**	**7.2807**
Stddev	.00066	.216	.00011	.00038	.0997
%RSD	12.709	1.4360	.46664	.64221	1.3692
#1	.00570	14.906	.02317	.05853	7.2102
#2	.00476	15.212	.02302	.05906	7.3512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**70.091**	**.02560**	**.0077**	**.25572**
Stddev	.00002	.746	.00010	.0420	.00126
%RSD	6.1639	1.0638	.39622	547.6	.49438
#1	.00033	69.564	.02567	-.0221	.25662
#2	.00030	70.618	.02553	.0374	.25483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3910**	**.38191**	**67.311**	**1.7986**	**.02195**
Stddev	.0033	.00060	1.089	.0201	.00024
%RSD	.05166	.15821	1.6176	1.1195	1.0827
#1	6.3933	.38148	66.541	1.8128	.02212
#2	6.3887	.38234	68.081	1.7843	.02179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-112-B@10 Acquired: 10/9/2023 18:13:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.626**	**3.1669**	**.31567**	**.34361**	**5.1111**
Stddev	.023	.0003	.00241	.01187	.0220
%RSD	.07431	.00983	.76325	3.4538	.42970
#1	30.642	3.1671	.31737	.33522	5.1266
#2	30.610	3.1666	.31397	.35200	5.0956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.16**	**.86418**	**1.4263**	F **-.09950**	**.01194**
Stddev	.00	.00154	.0022	.00074	.00004
%RSD	.0103	.17862	.15781	.74457	.29737
#1	25.17	.86527	1.4278	-.09897	.01197
#2	25.16	.86309	1.4247	-.10002	.01192
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82536**	**.03326**	**.14833**	**1.030**	**3.2558**
Stddev	.01413	.00005	.00161	.007	.0017
%RSD	1.7123	.13765	1.0844	.6426	.05317
#1	.81537	.03330	.14719	1.026	3.2545
#2	.83536	.03323	.14947	1.035	3.2570
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-112-B@10 Acquired: 10/9/2023 18:13:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00274**	**.23885**	**1.6231**	**1.020**
Stddev	.00046	.00035	.0008	.001
%RSD	16.736	.14608	.04829	.0725
#1	-.00307	.23910	1.6225	1.020
#2	-.00242	.23861	1.6237	1.019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5340.9**	**6796.5**	**30205.**	**84799.**
Stddev	3.9	10.4	216.	563.
%RSD	.07356	.15357	.71540	.66435
#1	5338.1	6789.1	30053.	84401.
#2	5343.6	6803.9	30358.	85197.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.988%	96.191%	102.91%	95.106%
Range				

Sample Name: 212820-A-112-B@20 Acquired: 10/9/2023 18:17:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**7.4285**	**.01265**	**.02958**	**3.6589**
Stddev	.00031	.1673	.00100	.00038	.0699
%RSD	13.936	2.2525	7.9095	1.2896	1.9117
#1	.00248	7.3102	.01335	.02985	3.6094
#2	.00203	7.5468	.01194	.02931	3.7083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**35.099**	**.01274**	**-.0046**	**.12927**
Stddev	.00031	.540	.00040	.0065	.00006
%RSD	296.24	1.5394	3.1349	140.4	.04544
#1	-.00011	34.717	.01246	-.0092	.12923
#2	.00032	35.481	.01302	-.0000	.12931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2534**	**.19270**	**33.974**	**.86773**	**.01430**
Stddev	.0055	.00069	.738	.01540	.00193
%RSD	.16771	.35848	2.1717	1.7750	13.529
#1	3.2495	.19319	33.452	.87862	.01293
#2	3.2573	.19222	34.496	.85684	.01567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-112-B@20 Acquired: 10/9/2023 18:17:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.540**	**1.6505**	**.16128**	**.15949**	**2.5974**
Stddev	.072	.0034	.00008	.01516	.0017
%RSD	.46144	.20721	.04733	9.5039	.06359
#1	15.489	1.6481	.16133	.14878	2.5962
#2	15.591	1.6529	.16123	.17021	2.5986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**.43756**	**.72132**	F **-.04890**	**.00692**
Stddev	.00	.00088	.00195	.00157	.00096
%RSD	.0073	.20090	.27006	3.2077	13.896
#1	25.08	.43818	.71994	-.04779	.00624
#2	25.08	.43693	.72270	-.05001	.00761
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37296**	**.01631**	**.07456**	**1.012**	**1.6510**
Stddev	.01597	.00014	.00125	.004	.0026
%RSD	4.2831	.84970	1.6717	.4070	.15606
#1	.36166	.01641	.07368	1.015	1.6492
#2	.38425	.01621	.07544	1.009	1.6528
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212820-A-112-B@20 Acquired: 10/9/2023 18:17:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00144**	**.12107**	**.83265**	**1.010**
Stddev	.00124	.00029	.00273	.000
%RSD	85.997	.24067	.32770	.0353
#1	-.00056	.12086	.83072	1.011
#2	-.00231	.12128	.83458	1.010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5442.7**	**6841.7**	**30218.**	**85686.**
Stddev	6.9	17.4	104.	560.
%RSD	.12609	.25363	.34315	.65405
#1	5447.5	6854.0	30145.	86082.
#2	5437.8	6829.5	30291.	85290.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.761%	96.831%	102.95%	96.101%
Range				

Sample Name: rinse Acquired: 10/9/2023 18:20:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.13123**	**.00061**	**-.00084**	**.00124**
Stddev	.00012	.00048	.00244	.00002	.00099
%RSD	51.896	.36233	398.24	1.8118	79.682
#1	-.00033	.13157	.00233	-.00083	.00194
#2	-.00015	.13090	-.00111	-.00085	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00425**	**-.00030**	**-.0633**	**.00018**
Stddev	.00006	.00432	.00032	.0266	.00031
%RSD	37.939	101.66	107.10	42.13	174.86
#1	-.00021	.00731	-.00052	-.0444	-.00004
#2	-.00012	.00120	-.00007	-.0821	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01615**	**.00048**	**.05792**	**-.03531**	**-.00201**
Stddev	.00932	.00078	.00064	.02342	.00327
%RSD	57.693	163.36	1.1116	66.314	162.98
#1	.02274	.00102	.05838	-.01875	.00031
#2	.00956	-.00007	.05747	-.05187	-.00432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 18:20:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.00181**	**.00192**	**-.03144**	**.02921**
Stddev	.00928	.00120	.00068	.00548	.01407
%RSD	977.98	66.483	35.642	17.416	48.169
#1	.00561	.00266	.00143	-.03531	.01926
#2	-.00751	.00096	.00240	-.02757	.03916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00030**	**.00184**	**.00118**	**-.00234**
Stddev	.00	.00113	.00231	.00130	.00183
%RSD	.0035	378.57	125.30	110.34	78.474
#1	25.00	-.00110	.00021	.00026	-.00104
#2	25.00	.00050	.00348	.00209	-.00363
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00675**	**.00048**	**-.00019**	**.9984**	**.00171**
Stddev	.01551	.00011	.00004	.0045	.00070
%RSD	229.82	23.619	21.164	.4487	41.091
#1	-.01771	.00040	-.00022	1.002	.00221
#2	.00422	.00056	-.00016	.9952	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 18:20:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00156**	**-.00047**	**.00306**	**.9993**
Stddev	.00161	.00047	.00007	.0008
%RSD	102.83	99.173	2.4227	.0784
#1	-.00270	-.00080	.00301	.9999
#2	-.00043	-.00014	.00312	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5550.7**	**6916.4**	**31313.**	**86539.**
Stddev	.3	9.9	313.	595.
%RSD	.00478	.14369	.99822	.68706
#1	5550.9	6923.4	31534.	86959.
#2	5550.5	6909.4	31092.	86118.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.642%	97.887%	106.68%	97.057%
Range				

Sample Name: MB 480-686379/1-A Acquired: 10/9/2023 18:23:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.02767**	**-.00184**	**.00123**	**.00053**
Stddev	.00119	.00097	.00270	.00008	.00084
%RSD	1212.3	3.4975	147.11	6.8900	159.43
#1	.00075	-.02835	.00007	.00117	-.00007
#2	-.00094	-.02698	-.00375	.00129	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.02805**	**.00025**	**-.0278**	**-.00026**
Stddev	.00008	.00018	.00023	.0036	.00020
%RSD	41.593	.65581	92.218	13.01	78.315
#1	-.00014	.02818	.00041	-.0304	-.00012
#2	-.00025	.02792	.00009	-.0253	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00971**	**.00119**	**.02118**	**-.01130**	**-.00073**
Stddev	.00850	.00033	.00444	.05253	.00143
%RSD	87.491	27.727	20.989	464.90	197.35
#1	.00370	.00096	.02432	.02585	.00029
#2	.01572	.00142	.01803	-.04844	-.00174
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00400				
Low Limit	-.00300				

Sample Name: MB 480-686379/1-A Acquired: 10/9/2023 18:23:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00447**	**.00141**	**.00099**	**.01096**	**.00702**
Stddev	.00619	.00113	.00024	.00577	.00018
%RSD	138.42	80.689	24.420	52.619	2.5095
#1	-.00885	.00060	.00082	.00688	.00714
#2	-.00010	.00221	.00116	.01504	.00689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00018**	**.03377**	**.00194**	**.00285**
Stddev	.00	.00046	.00222	.00128	.00424
%RSD	.0009	252.55	6.5759	65.927	148.69
#1	25.02	-.00014	.03220	.00104	.00585
#2	25.02	.00051	.03534	.00285	-.00015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19368**	F **.04937**	**.00007**	**1.002**	**.00142**
Stddev	.00923	.00057	.00002	.005	.00024
%RSD	4.7666	1.1546	21.626	.5355	17.252
#1	.18715	.04897	.00009	.9977	.00125
#2	.20020	.04977	.00006	1.005	.00159
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: MB 480-686379/1-A Acquired: 10/9/2023 18:23:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00281**	**-.00046**	**.00394**	**1.0000**
Stddev	.00080	.00023	.00079	.0001
%RSD	28.372	49.917	20.111	.0069
#1	-.00337	-.00062	.00338	1.000
#2	-.00224	-.00030	.00450	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5554.2**	**6949.0**	**30670.**	**86870.**
Stddev	10.7	1.2	209.	242.
%RSD	.19256	.01699	.68289	.27802
#1	5561.7	6949.8	30818.	87040.
#2	5546.6	6948.2	30522.	86699.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.702%	98.349%	104.49%	97.429%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 18:27:08 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95175**	**51.167**	**1.0085**	**.99282**	**.99882**
Stddev	.00392	.784	.0038	.00074	.01450
%RSD	.41149	1.5316	.37537	.07424	1.4516
#1	.95452	50.613	1.0112	.99230	.98857
#2	.94898	51.722	1.0058	.99334	1.0091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0131**	**49.394**	**1.0565**	**.9588**	**1.0139**
Stddev	.0151	.805	.0032	.0064	.0011
%RSD	1.4919	1.6305	.30414	.6670	.10873
#1	1.0024	48.825	1.0542	.9543	1.0147
#2	1.0238	49.964	1.0587	.9634	1.0131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95165**	**.93175**	**49.997**	**50.391**	**.98935**
Stddev	.00810	.00510	.896	.668	.00834
%RSD	.85068	.54688	1.7922	1.3255	.84339
#1	.95737	.93535	49.363	49.919	.98345
#2	.94592	.92815	50.631	50.863	.99525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 18:27:08 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.880**	**.95191**	**.98260**	**50.649**	**1.0276**
Stddev	.035	.00212	.00291	.639	.0049
%RSD	.07249	.22220	.29592	1.2618	.47505
#1	48.855	.95340	.98465	50.197	1.0311
#2	48.906	.95041	.98054	51.101	1.0242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.54**	**1.0129**	**23.910**	**1.0086**	**1.0028**
Stddev	.01	.0016	.001	.0008	.0003
%RSD	.0144	.15996	.00363	.08416	.03382
#1	37.54	1.0118	23.911	1.0080	1.0031
#2	37.54	1.0141	23.910	1.0092	1.0026
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.282**	**.99786**	**1.0172**	**1.500**	**.94459**
Stddev	.214	.00214	.0150	.007	.00030
%RSD	2.0791	.21493	1.4762	.4942	.03149
#1	10.130	.99937	1.0066	1.495	.94438
#2	10.433	.99634	1.0279	1.506	.94480
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 18:27:08 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99618**	**.95034**	**.97322**	**1.497**
Stddev	.00099	.00044	.00181	.008
%RSD	.09945	.04583	.18618	.5263
#1	.99688	.95065	.97194	1.492
#2	.99548	.95003	.97450	1.503
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5222.3**	**6802.9**	**30279.**	**82956.**
Stddev	5.5	.6	186.	253.
%RSD	.10610	.00874	.61441	.30444
#1	5218.3	6802.4	30147.	83134.
#2	5226.2	6803.3	30411.	82777.

Sample Name: CCB-7506043 Acquired: 10/9/2023 18:30:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**-.02560**	**.00119**	**-.00036**	**.00071**
Stddev	.00023	.01562	.00159	.00052	.00026
%RSD	25.984	60.996	134.10	142.32	35.916
#1	-.00104	-.01456	.00231	.00000	.00053
#2	-.00072	-.03665	.00006	-.00073	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00100**	**.00012**	**-.0169**	**.00008**
Stddev	.00005	.00098	.00020	.0084	.00017
%RSD	375.68	97.876	166.18	49.73	208.46
#1	.00005	-.00031	.00026	-.0228	-.00004
#2	-.00002	-.00169	-.00002	-.0109	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.01047**	**-.00070**	**.04697**	**-.00498**	**-.00114**
Stddev	.00386	.00058	.00152	.00439	.00101
%RSD	36.860	82.896	3.2424	88.160	88.376
#1	.00774	-.00110	.04589	-.00808	-.00043
#2	.01320	-.00029	.04804	-.00187	-.00185
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00400				
Low Limit	-.00400				

Sample Name: CCB-7506043 Acquired: 10/9/2023 18:30:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00447**	**.00106**	**.00246**	**-.01366**	F **.01955**
Stddev	.00474	.00054	.00074	.00987	.00693
%RSD	105.89	50.995	30.141	72.264	35.453
#1	-.00782	.00068	.00194	-.00668	.01465
#2	-.00112	.00144	.00299	-.02064	.02445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.01000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00131**	**.00098**	**.00096**	**.00582**
Stddev	.00	.00075	.00092	.00202	.00143
%RSD	.0043	57.280	93.901	210.66	24.561
#1	25.00	-.00078	.00164	-.00047	.00481
#2	25.00	-.00184	.00033	.00239	.00684
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01266**	**.00029**	**-.00017**	**1.001**	**.00071**
Stddev	.00547	.00037	.00003	.003	.00003
%RSD	43.178	126.94	20.916	.2994	3.7164
#1	-.00879	.00056	-.00014	.9990	.00070
#2	-.01652	.00003	-.00019	1.003	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 18:30:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00037**	**-.00057**	**1.001**
Stddev	.00215	.00013	.00036	.000
%RSD	1273.4	35.575	63.455	.0300
#1	-.00169	-.00028	-.00083	1.001
#2	.00135	-.00046	-.00031	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5766.6**	**7173.1**	**31787.**	**89084.**
Stddev	11.6	16.7	186.	240.
%RSD	.20088	.23308	.58358	.26962
#1	5758.4	7161.3	31918.	89254.
#2	5774.8	7184.9	31656.	88914.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 18:33:46 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00583**	**.17670**	**.01534**	**.01908**	F **.00329**
Stddev	.00058	.00993	.00163	.00034	.00106
%RSD	9.9740	5.6192	10.629	1.7893	32.069
#1	.00624	.16968	.01419	.01932	.00404
#2	.00541	.18372	.01650	.01884	.00255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.00200
Range					50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**.49308**	**.00236**	**-.0012**	**.00402**
Stddev	.00004	.00842	.00063	.0265	.00018
%RSD	2.1317	1.7085	26.685	2143.	4.4076
#1	.00173	.48712	.00280	-.0200	.00415
#2	.00178	.49903	.00191	.0175	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.02029**	**.01041**	F **.08686**	**.49670**	**.02988**
Stddev	.01156	.00008	.00378	.01961	.00115
%RSD	56.982	.73201	4.3554	3.9487	3.8559
#1	.02846	.01046	.08954	.48283	.02906
#2	.01211	.01035	.08419	.51057	.03069
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value	.00400		.05000		
Range	50.000%		50.000%		

Sample Name: CCVL-7610998 Acquired: 10/9/2023 18:33:46 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19858**	F **.00497**	**.01073**	**1.0038**	F **.02556**
Stddev	.00752	.00150	.00003	.0262	.00321
%RSD	3.7853	30.190	.26307	2.6137	12.562
#1	.20389	.00603	.01071	.98525	.02783
#2	.19326	.00391	.01075	1.0224	.02329
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value		.00300			.01000
Range		50.000%			50.000%

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00985**	**.19787**	**.02249**	**.02262**
Stddev	.00	.00002	.00107	.00260	.00109
%RSD	.0022	.23159	.54088	11.568	4.8193
#1	25.00	.00987	.19863	.02432	.02185
#2	24.99	.00984	.19712	.02065	.02339
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48360**	**.00958**	**.00490**	F **1.003**	**.00570**
Stddev	.00884	.00045	.00034	.001	.00042
%RSD	1.8286	4.6820	6.8993	.1229	7.3881
#1	.47735	.00990	.00466	1.003	.00599
#2	.48986	.00926	.00513	1.004	.00540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 18:33:46 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01838**	**.00466**	**.00998**	F **1.0000**
Stddev	.00054	.00009	.00054	.0000
%RSD	2.9135	1.9183	5.4083	.0046
#1	.01876	.00472	.00959	1.0000
#2	.01800	.00460	.01036	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5566.2**	**6947.3**	**31177.**	**87002.**
Stddev	8.2	19.0	422.	643.
%RSD	.14776	.27347	1.3527	.73937
#1	5560.4	6933.8	31475.	87457.
#2	5572.0	6960.7	30878.	86547.

Sample Name: LCSSRM 480-686379/2- Acquired: 10/9/2023 18:37:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.38962	107.84	1.6390	2.3500	3.6832
Stddev	.00563	.15	.0084	.0060	.0045
%RSD	1.4442	.13450	.51144	.25504	.12136
#1	.39360	107.94	1.6449	2.3543	3.6864
#2	.38564	107.74	1.6330	2.3458	3.6800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.4315	48.480	1.0036	.6759	1.6696
Stddev	.0016	.115	.0054	.0368	.0071
%RSD	.11223	.23668	.53451	5.444	.42515
#1	1.4327	48.561	1.0074	.7019	1.6747
#2	1.4304	48.399	.99985	.6499	1.6646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.9858	1.0336	81.162	19.886	1.1322
Stddev	.0271	.0130	.218	.031	.0025
%RSD	1.3635	1.2546	.26866	.15371	.22029
#1	2.0049	1.0428	81.316	19.864	1.1304
#2	1.9667	1.0244	81.008	19.908	1.1339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-686379/2- Acquired: 10/9/2023 18:37:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.033**	**4.7165**	**.48052**	**4.4328**	**1.0908**
Stddev	.211	.0777	.00286	.0014	.0011
%RSD	1.0018	1.6465	.59430	.03164	.09928
#1	21.182	4.7715	.48254	4.4318	1.0900
#2	20.884	4.6616	.47850	4.4338	1.0915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.09**	**1.4919**	**.51480**	**1.0562**	**.85726**
Stddev	.00	.0083	.00290	.0073	.00669
%RSD	.0160	.55341	.56242	.68663	.78020
#1	26.09	1.4977	.51276	1.0613	.86199
#2	26.08	1.4860	.51685	1.0511	.85253
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4305**	**.95405**	**2.0844**	**1.090**	**3.8072**
Stddev	.0144	.00345	.0002	.006	.0494
%RSD	.59044	.36128	.00749	.5512	1.2978
#1	2.4203	.95649	2.0845	1.086	3.8421
#2	2.4406	.95162	2.0843	1.095	3.7723
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-686379/2- Acquired: 10/9/2023 18:37:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.7195**	**1.0840**	**3.1123**	**1.046**
Stddev	.0052	.0138	.0317	.000
%RSD	.30370	1.2753	1.0199	.0006
#1	1.7232	1.0937	3.1347	1.046
#2	1.7158	1.0742	3.0898	1.046
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5257.2**	**7360.8**	**33057.**	**91684.**
Stddev	9.7	10.0	507.	722.
%RSD	.18455	.13619	1.5327	.78777
#1	5250.3	7353.7	32699.	91173.
#2	5264.0	7367.9	33415.	92194.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.531%	104.18%	112.62%	102.83%
Range				

Sample Name: 480-213382-A-1-A Acquired: 10/9/2023 18:40:29 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**78.371**	**.03737**	**.17890**	**.30958**
Stddev	.00094	.233	.00287	.00009	.00020
%RSD	109.09	.29692	7.6821	.04754	.06342
#1	-.00020	78.536	.03534	.17884	.30944
#2	-.00153	78.207	.03940	.17896	.30971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00299**	**765.35**	**.00313**	**.2418**	**.04408**
Stddev	.00005	7.02	.00057	.0278	.00054
%RSD	1.7638	.91669	18.320	11.48	1.2216
#1	.00302	760.39	.00273	.2614	.04446
#2	.00295	770.31	.00354	.2222	.04370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09956**	**.24680**	**108.54**	**28.173**	**.23168**
Stddev	.01569	.00036	.39	.028	.00232
%RSD	15.759	.14575	.36169	.09935	.99946
#1	.11065	.24655	108.26	28.153	.23331
#2	.08847	.24706	108.81	28.193	.23004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-1-A Acquired: 10/9/2023 18:40:29 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**378.45**	**3.2210**	**.00501**	**2.2865**	**.11704**
Stddev	4.71	.0104	.00027	.0214	.00313
%RSD	1.2437	.32394	5.4684	.93444	2.6721
#1	375.12	3.2136	.00481	2.3016	.11483
#2	381.78	3.2284	.00520	2.2713	.11926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.76**	**.15821**	**1.6221**	**-.00777**	**-.00775**
Stddev	.01	.00067	.0008	.00346	.00256
%RSD	.0442	.42142	.04603	44.508	32.999
#1	27.77	.15774	1.6216	-.01022	-.00594
#2	27.75	.15868	1.6227	-.00532	-.00955
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5244**	**.04004**	**.66301**	**1.050**	**1.2348**
Stddev	.0482	.00009	.00046	.002	.0100
%RSD	1.0649	.22783	.06941	.1872	.80996
#1	4.5585	.03998	.66268	1.052	1.2277
#2	4.4903	.04010	.66333	1.049	1.2419
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-1-A Acquired: 10/9/2023 18:40:29 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00022**	**.16013**	**.42360**	**1.031**
Stddev	.00155	.00109	.00393	.001
%RSD	690.01	.68346	.92751	.0921
#1	-.00087	.15936	.42082	1.032
#2	.00132	.16091	.42637	1.030
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4693.1**	**6914.7**	**31851.**	**86325.**
Stddev	17.5	19.5	393.	101.
%RSD	.37215	.28223	1.2340	.11725
#1	4680.8	6900.9	32129.	86396.
#2	4705.5	6928.5	31573.	86253.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.711%	97.864%	108.51%	96.818%
Range				

Sample Name: 480-213382-A-2-A Acquired: 10/9/2023 18:44:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00180**	**125.06**	**.06187**	**.10123**	**.54501**
Stddev	.00047	.07	.00051	.00001	.00861
%RSD	26.337	.05589	.82021	.01125	1.5803
#1	-.00213	125.11	.06223	.10124	.55110
#2	-.00146	125.01	.06151	.10122	.53892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00453**	**49.380**	**.00662**	**.4334**	**.04494**
Stddev	.00004	.224	.00013	.0175	.00047
%RSD	.96312	.45326	1.9261	4.029	1.0568
#1	.00450	49.538	.00671	.4458	.04527
#2	.00456	49.222	.00653	.4211	.04460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13471**	**.17751**	**126.87**	**12.588**	**.11640**
Stddev	.00327	.00157	.67	.012	.00336
%RSD	2.4306	.88428	.52708	.09715	2.8843
#1	.13703	.17862	127.35	12.596	.11403
#2	.13240	.17640	126.40	12.579	.11878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-2-A Acquired: 10/9/2023 18:44:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.838**	**2.4083**	**.00500**	**1.1277**	**.11812**
Stddev	.135	.0014	.00007	.0012	.00428
%RSD	.64980	.05679	1.4730	.10302	3.6266
#1	20.934	2.4093	.00505	1.1269	.12115
#2	20.742	2.4073	.00495	1.1286	.11510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.77**	**.39160**	**1.6022**	**-.00764**	**.00141**
Stddev	.01	.00034	.0008	.00148	.00246
%RSD	.0240	.08581	.05038	19.359	174.42
#1	26.77	.39137	1.6016	-.00659	.00315
#2	26.76	.39184	1.6028	-.00868	-.00033
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9242**	**.06184**	**.17275**	**1.072**	**2.3343**
Stddev	.0631	.00043	.00021	.004	.0166
%RSD	1.6087	.68791	.12160	.3337	.71284
#1	3.9688	.06214	.17290	1.075	2.3461
#2	3.8795	.06154	.17260	1.070	2.3226
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-2-A Acquired: 10/9/2023 18:44:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00387**	**.22225**	**.53984**	**1.014**
Stddev	.00097	.00090	.00469	.001
%RSD	25.068	.40631	.86788	.0502
#1	-.00318	.22289	.54316	1.014
#2	-.00455	.22161	.53653	1.015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5291.6**	**7901.5**	**35448.**	**97394.**
Stddev	.8	10.0	423.	424.
%RSD	.01450	.12629	1.1935	.43582
#1	5291.0	7894.5	35149.	97094.
#2	5292.1	7908.6	35747.	97694.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.130%	111.83%	120.77%	109.23%
Range				

Sample Name: 480-213382-B-3-D Acquired: 10/9/2023 18:47:26 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00223**	**132.96**	**.05973**	**.10505**	**.57754**
Stddev	.00016	.61	.00019	.00048	.00769
%RSD	7.1863	.45729	.32234	.45427	1.3307
#1	-.00234	132.53	.05987	.10539	.58297
#2	-.00212	133.39	.05960	.10471	.57210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00478**	**35.045**	**.00647**	**.4579**	**.04823**
Stddev	.00009	.225	.00008	.0272	.00060
%RSD	1.8095	.64064	1.3120	5.937	1.2453
#1	.00484	34.886	.00653	.4387	.04866
#2	.00472	35.204	.00641	.4772	.04781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12901**	**.13358**	**130.56**	**15.475**	**.12101**
Stddev	.00163	.00154	.99	.034	.00086
%RSD	1.2612	1.1499	.75530	.22175	.70772
#1	.13016	.13467	129.86	15.499	.12161
#2	.12786	.13249	131.26	15.451	.12040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-D Acquired: 10/9/2023 18:47:26 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.216**	**2.7558**	**.00452**	**.91458**	**.11964**
Stddev	.136	.0434	.00033	.00386	.00087
%RSD	.70987	1.5735	7.3829	.42179	.72691
#1	19.313	2.7865	.00475	.91185	.12025
#2	19.120	2.7252	.00428	.91731	.11902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.82**	**.30284**	**1.4633**	**-.01041**	**.00165**
Stddev	.01	.00031	.0046	.00066	.00202
%RSD	.0194	.10224	.31531	6.3016	122.73
#1	26.82	.30306	1.4666	-.00995	.00022
#2	26.81	.30263	1.4601	-.01088	.00308
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7802**	**.05944**	**.10411**	**1.076**	**2.3388**
Stddev	.1241	.00123	.00019	.001	.0257
%RSD	2.5967	2.0639	.18715	.0537	1.1002
#1	4.8680	.06031	.10397	1.076	2.3570
#2	4.6925	.05857	.10425	1.075	2.3206
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-D Acquired: 10/9/2023 18:47:26 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00414**	**.23107**	**.48852**	**1.017**
Stddev	.00050	.00173	.00400	.001
%RSD	12.054	.74980	.81799	.0778
#1	-.00449	.23229	.49135	1.016
#2	-.00379	.22984	.48570	1.017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5311.6**	**8053.8**	**36096.**	**99140.**
Stddev	6.5	6.9	391.	80.
%RSD	.12166	.08572	1.0837	.08102
#1	5307.0	8058.6	35820.	99083.
#2	5316.1	8048.9	36373.	99197.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.478%	113.98%	122.98%	111.19%
Range				

Sample Name: 480-213382-B-3-DSD@5 Acquired: 10/9/2023 18:50:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**29.397**	**.01261**	**.02467**	**.13366**
Stddev	.00090	.452	.00066	.00032	.00027
%RSD	151.76	1.5362	5.2196	1.2841	.19862
#1	.00004	29.077	.01215	.02489	.13347
#2	-.00122	29.716	.01308	.02444	.13384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**7.7336**	**.00148**	**.0964**	**.00972**
Stddev	.00003	.1455	.00064	.0719	.00000
%RSD	2.7350	1.8813	43.348	74.60	.03709
#1	.00093	7.6307	.00193	.0456	.00972
#2	.00096	7.8365	.00103	.1473	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03753**	**.03536**	**29.415**	**3.4531**	**.02169**
Stddev	.00161	.00046	.502	.0324	.00024
%RSD	4.2793	1.2953	1.7063	.93727	1.1075
#1	.03866	.03504	29.060	3.4302	.02152
#2	.03639	.03568	29.770	3.4760	.02186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-DSD@5 Acquired: 10/9/2023 18:50:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4797**	**.64416**	**.00111**	**.18860**	**.03695**
Stddev	.0003	.00210	.00001	.00909	.00406
%RSD	.00723	.32546	1.2214	4.8175	10.982
#1	4.4795	.64268	.00111	.18218	.03981
#2	4.4799	.64565	.00110	.19502	.03408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.42**	**.06225**	**.32915**	**-.00220**	**-.00101**
Stddev	.00	.00045	.00201	.00019	.00061
%RSD	.0002	.72628	.61004	8.6383	60.279
#1	25.42	.06193	.33057	-.00233	-.00145
#2	25.42	.06257	.32773	-.00206	-.00058
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0615**	**.01571**	**.02261**	**1.015**	**.52873**
Stddev	.0104	.00068	.00037	.002	.00318
%RSD	.97887	4.3306	1.6275	.2225	.60198
#1	1.0542	.01619	.02235	1.013	.52648
#2	1.0689	.01523	.02287	1.016	.53098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-DSD@5 Acquired: 10/9/2023 18:50:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.05222**	**.11422**	**1.004**
Stddev	.00096	.00039	.00055	.001
%RSD	107.75	.74837	.47871	.0657
#1	-.00021	.05194	.11384	1.003
#2	-.00156	.05250	.11461	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5520.9**	**7236.7**	**33237.**	**89824.**
Stddev	13.0	4.1	143.	60.
%RSD	.23621	.05724	.42912	.06683
#1	5511.7	7233.7	33136.	89782.
#2	5530.1	7239.6	33338.	89867.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.123%	102.42%	113.24%	100.74%
Range				

Sample Name: 480-213382-B-3-DPDS Acquired: 10/9/2023 18:54:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07441**	**146.86**	**.41979**	**.44468**	**.92324**
Stddev	.00049	.57	.00015	.00059	.00553
%RSD	.66411	.38797	.03467	.13236	.59885
#1	.07476	147.26	.41989	.44426	.92715
#2	.07406	146.45	.41969	.44509	.91933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38142**	**51.664**	**.38360**	**.4036**	**.48246**
Stddev	.00115	.257	.00097	.0049	.00147
%RSD	.30057	.49702	.25300	1.205	.30501
#1	.38223	51.846	.38291	.4001	.48350
#2	.38061	51.483	.38428	.4070	.48142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45806**	**.46742**	**144.23**	**33.214**	**.47181**
Stddev	.01191	.00348	.49	.086	.00405
%RSD	2.6012	.74416	.34293	.25791	.85763
#1	.46648	.46988	144.58	33.275	.47467
#2	.44963	.46496	143.88	33.154	.46894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-DPDS Acquired: 10/9/2023 18:54:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.487**	**2.9823**	**.35991**	**19.071**	**.54165**
Stddev	.333	.0208	.00205	.070	.01446
%RSD	.93737	.69701	.56981	.36936	2.6691
#1	35.722	2.9970	.36136	19.120	.55187
#2	35.251	2.9676	.35846	19.021	.53142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.75**	**.71575**	**18.151**	**.38292**	**.35276**
Stddev	.00	.00454	.079	.00154	.00043
%RSD	.0067	.63422	.43684	.40148	.12055
#1	26.75	.71896	18.207	.38401	.35306
#2	26.74	.71254	18.095	.38183	.35246
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.791**	**.46996**	**.46865**	**1.079**	**2.6167**
Stddev	.136	.00055	.00006	.001	.0316
%RSD	.57260	.11741	.01212	.0609	1.2092
#1	23.887	.47035	.46861	1.078	2.6390
#2	23.695	.46957	.46869	1.079	2.5943
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-DPDS Acquired: 10/9/2023 18:54:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.41827**	**.56227**	**.80160**	**1.017**
Stddev	.00122	.00738	.00774	.001
%RSD	.29210	1.3127	.96589	.0955
#1	.41914	.56748	.80708	1.017
#2	.41741	.55705	.79613	1.016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5188.5**	**7880.3**	**35147.**	**96853.**
Stddev	6.9	9.2	471.	844.
%RSD	.13209	.11735	1.3396	.87103
#1	5183.7	7886.8	34815.	96256.
#2	5193.4	7873.7	35480.	97449.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.336%	111.53%	119.74%	108.62%
Range				

Sample Name: 480-213382-B-3-E MS Acquired: 10/9/2023 18:57:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07276**	**193.20**	**.39268**	**.48968**	**1.0558**
Stddev	.00092	2.12	.00048	.00156	.0063
%RSD	1.2599	1.0989	.12241	.31848	.59978
#1	.07341	191.70	.39234	.49078	1.0513
#2	.07211	194.70	.39302	.48858	1.0602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35817**	**52.596**	**.35930**	**.5375**	**.46942**
Stddev	.00398	.353	.00061	.0069	.00068
%RSD	1.1099	.67159	.16869	1.281	.14474
#1	.35535	52.346	.35887	.5326	.46990
#2	.36098	52.845	.35973	.5423	.46894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47122**	**.44471**	**155.39**	**43.519**	**.48540**
Stddev	.00126	.00183	1.07	.406	.00299
%RSD	.26783	.41203	.68876	.93309	.61507
#1	.47211	.44600	154.64	43.232	.48329
#2	.47032	.44341	156.15	43.806	.48751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-E MS Acquired: 10/9/2023 18:57:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.957**	**2.6570**	**.33218**	**19.381**	**.53057**
Stddev	.154	.0075	.00239	.176	.00016
%RSD	.38415	.28094	.72029	.91037	.02930
#1	40.066	2.6517	.33387	19.257	.53046
#2	39.849	2.6623	.33049	19.506	.53068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.86**	**.67280**	**17.357**	**.26325**	**.32627**
Stddev	.01	.00148	.097	.00183	.00040
%RSD	.0207	.21951	.55626	.69704	.12403
#1	26.87	.67385	17.425	.26455	.32656
#2	26.86	.67176	17.289	.26195	.32598
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3946**	**.44533**	**.50786**	**1.078**	**4.0978**
Stddev	.0278	.00066	.00440	.004	.0228
%RSD	.43427	.14928	.86619	.3243	.55566
#1	6.3750	.44580	.50475	1.075	4.1139
#2	6.4143	.44486	.51097	1.080	4.0817
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-E MS Acquired: 10/9/2023 18:57:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.40205**	**.60236**	**.81612**	**1.076**
Stddev	.00494	.00341	.00498	.001
%RSD	1.2275	.56549	.61042	.0821
#1	.40554	.60477	.81964	1.075
#2	.39856	.59995	.81260	1.077
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5142.7**	**8063.7**	**35779.**	**98444.**
Stddev	13.5	7.5	203.	16.
%RSD	.26235	.09304	.56731	.01673
#1	5152.3	8069.0	35636.	98432.
#2	5133.2	8058.4	35923.	98455.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.539%	114.12%	121.90%	110.41%
Range				

Sample Name: 480-213382-B-3-F MSD Acquired: 10/9/2023 19:00:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07316**	**184.93**	**.40195**	**.49638**	**1.0038**
Stddev	.00076	1.14	.00090	.00115	.0052
%RSD	1.0344	.61783	.22319	.23104	.51594
#1	.07262	185.74	.40258	.49719	1.0075
#2	.07369	184.12	.40131	.49557	1.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35907**	**52.720**	**.36710**	**.4573**	**.47313**
Stddev	.00164	.121	.00048	.0169	.00107
%RSD	.45654	.22914	.13192	3.701	.22630
#1	.36023	52.805	.36745	.4693	.47389
#2	.35791	52.634	.36676	.4453	.47237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46711**	**.48434**	**156.45**	**43.743**	**.48418**
Stddev	.00418	.00104	.21	.102	.00594
%RSD	.89471	.21538	.13375	.23308	1.2274
#1	.46415	.48360	156.60	43.815	.48838
#2	.47006	.48508	156.30	43.671	.47998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-F MSD Acquired: 10/9/2023 19:00:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.830**	**2.9774**	**.34028**	**19.404**	**.53398**
Stddev	.058	.0029	.00153	.105	.00113
%RSD	.14207	.09560	.44821	.54133	.21101
#1	40.789	2.9794	.34135	19.478	.53478
#2	40.871	2.9754	.33920	19.329	.53319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.67**	**.68215**	**17.582**	**.27320**	**.33535**
Stddev	.00	.00173	.024	.00118	.00280
%RSD	.0107	.25423	.13660	.43222	.83549
#1	26.67	.68337	17.599	.27403	.33336
#2	26.67	.68092	17.565	.27236	.33733
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2582**	**.44667**	**.50054**	**1.086**	**3.9933**
Stddev	.0695	.00040	.00285	.003	.0062
%RSD	.95693	.09012	.56881	.2316	.15461
#1	7.3073	.44695	.50256	1.084	3.9889
#2	7.2091	.44638	.49853	1.088	3.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-3-F MSD Acquired: 10/9/2023 19:00:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.40192**	**.59525**	**.78809**	**1.076**
Stddev	.00374	.00158	.00090	.000
%RSD	.93042	.26580	.11378	.0415
#1	.39927	.59413	.78746	1.076
#2	.40456	.59636	.78872	1.076
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5145.2**	**7918.9**	**35979.**	**97385.**
Stddev	4.8	1.0	72.	430.
%RSD	.09378	.01234	.20061	.44165
#1	5148.6	7919.6	35928.	97080.
#2	5141.8	7918.3	36030.	97689.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.582%	112.08%	122.58%	109.22%
Range				

Sample Name: 480-213382-A-4-A Acquired: 10/9/2023 19:04:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**46.536**	**.01793**	**.12996**	**.20919**
Stddev	.00001	.025	.00257	.00025	.00151
%RSD	1.4970	.05289	14.361	.19503	.72234
#1	-.00089	46.554	.01611	.13014	.20812
#2	-.00091	46.519	.01975	.12979	.21026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	F **1300.5**	**.00161**	**.2645**	**.02434**
Stddev	.00005	9.6	.00045	.0021	.00001
%RSD	2.6152	.74097	27.961	.8050	.04032
#1	.00211	1307.3	.00130	.2660	.02433
#2	.00204	1293.7	.00193	.2630	.02435
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05821**	**.09372**	**64.900**	**15.645**	**.13382**
Stddev	.00097	.00142	.043	.027	.00207
%RSD	1.6700	1.5136	.06604	.17415	1.5492
#1	.05890	.09272	64.931	15.626	.13235
#2	.05753	.09472	64.870	15.664	.13528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-4-A Acquired: 10/9/2023 19:04:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**149.90**	**2.4378**	**.00292**	**2.0484**	**.07310**
Stddev	.12	.0201	.00036	.0158	.00419
%RSD	.07987	.82349	12.439	.77164	5.7312
#1	149.81	2.4237	.00266	2.0596	.07014
#2	149.98	2.4520	.00318	2.0373	.07606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.69**	**.05467**	**.84638**	**-.00789**	**-.00572**
Stddev	.01	.00182	.00348	.00023	.00199
%RSD	.0286	3.3237	.41155	2.9376	34.760
#1	26.70	.05338	.84391	-.00772	-.00431
#2	26.69	.05595	.84884	-.00805	-.00712
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4500**	**.04872**	**1.1674**	**1.035**	**1.2080**
Stddev	.0869	.00100	.0037	.006	.0162
%RSD	1.5952	2.0495	.31519	.6227	1.3403
#1	5.5115	.04943	1.1648	1.031	1.1966
#2	5.3885	.04802	1.1700	1.040	1.2195
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-4-A Acquired: 10/9/2023 19:04:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.10546**	**.16444**	**1.027**
Stddev	.00136	.00094	.00161	.000
%RSD	157.66	.89516	.98034	.0370
#1	-.00182	.10479	.16330	1.027
#2	.00010	.10612	.16558	1.027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4596.1**	**6890.5**	**31674.**	**86236.**
Stddev	3.9	1.2	245.	543.
%RSD	.08502	.01703	.77406	.63015
#1	4593.4	6891.4	31847.	85852.
#2	4598.9	6889.7	31501.	86621.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.022%	97.521%	107.91%	96.718%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 19:07:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95003**	**50.532**	**1.0204**	**1.0078**	**.98077**
Stddev	.01212	.565	.0014	.0017	.00850
%RSD	1.2755	1.1188	.13494	.17293	.86633
#1	.94146	50.132	1.0194	1.0066	.97476
#2	.95860	50.931	1.0214	1.0091	.98678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99831**	**48.636**	**1.0686**	**.9518**	**1.0200**
Stddev	.01138	.434	.0043	.0386	.0009
%RSD	1.1401	.89292	.40082	4.058	.09110
#1	.99026	48.329	1.0655	.9245	1.0193
#2	1.0064	48.943	1.0716	.9791	1.0206
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92950**	**.93728**	**49.015**	**50.259**	**.98647**
Stddev	.01299	.01125	.532	.581	.00919
%RSD	1.3980	1.2002	1.0857	1.1568	.93140
#1	.92032	.92932	48.639	49.848	.97997
#2	.93869	.94523	49.392	50.670	.99296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 19:07:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.946**	**.95016**	**.99618**	**50.273**	**1.0280**
Stddev	.573	.01391	.00187	.426	.0024
%RSD	1.1715	1.4643	.18773	.84671	.22841
#1	48.540	.94033	.99750	49.972	1.0263
#2	49.351	.96000	.99486	50.574	1.0296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.66**	**1.0187**	**24.209**	**1.0202**	**1.0143**
Stddev	.03	.0002	.062	.0030	.0004
%RSD	.0680	.02178	.25570	.29465	.03514
#1	37.65	1.0186	24.252	1.0181	1.0146
#2	37.68	1.0189	24.165	1.0224	1.0141
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.290**	**1.0058**	**1.0054**	**1.499**	**.94937**
Stddev	.186	.0000	.0159	.011	.01279
%RSD	1.8061	.00204	1.5778	.7306	1.3475
#1	10.158	1.0058	.99420	1.491	.94032
#2	10.421	1.0058	1.0166	1.507	.95842
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 19:07:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0083**	**.94372**	**.97460**	**1.488**
Stddev	.0014	.01593	.01523	.006
%RSD	.13983	1.6883	1.5628	.4161
#1	1.0073	.93245	.96383	1.484
#2	1.0093	.95498	.98537	1.492
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5185.0**	**6724.5**	**30323.**	**83138.**
Stddev	3.5	2.3	352.	311.
%RSD	.06747	.03410	1.1620	.37417
#1	5187.5	6722.9	30572.	83358.
#2	5182.6	6726.1	30074.	82918.

Sample Name: CCB-7506043 Acquired: 10/9/2023 19:10:57 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.02495**	**.00043**	**.00126**	**.00031**
Stddev	.00023	.02438	.00021	.00031	.00002
%RSD	39.459	97.723	50.478	24.929	6.8302
#1	.00042	.04219	.00027	.00148	.00033
#2	.00074	.00771	.00058	.00104	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.05959**	**-.00065**	**.0016**	**-.00024**
Stddev	.00008	.01884	.00061	.0517	.00002
%RSD	211.19	31.614	93.663	3305.	9.3667
#1	.00002	.07291	-.00022	.0381	-.00026
#2	-.00010	.04627	-.00108	-.0350	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00485**	**-.00018**	**.04811**	**.13497**	**-.00032**
Stddev	.00003	.00024	.02093	.08349	.00073
%RSD	.56239	131.78	43.513	61.859	227.29
#1	.00487	-.00001	.06291	.07593	.00020
#2	.00483	-.00035	.03331	.19400	-.00084
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00400				
Low Limit	-.00400				

Sample Name: CCB-7506043 Acquired: 10/9/2023 19:10:57 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00323**	**.00084**	**.00168**	**.00929**	**.00693**
Stddev	.00100	.00006	.00019	.00494	.00010
%RSD	31.065	6.5567	11.076	53.152	1.4055
#1	.00393	.00088	.00155	.00580	.00686
#2	.00252	.00080	.00181	.01278	.00700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00052**	**.00253**	**.00020**	**.00128**
Stddev	.00	.00131	.00358	.00292	.00297
%RSD	.0028	250.90	141.36	1497.2	231.65
#1	25.00	-.00145	.00507	.00226	.00339
#2	25.00	.00040	.00000	-.00187	-.00082
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00508**	**-.00000**	**-.00007**	**1.004**	**.00129**
Stddev	.00912	.00068	.00000	.005	.00018
%RSD	179.53	24991.	4.2911	.4807	14.047
#1	-.01152	.00048	-.00008	1.007	.00141
#2	.00137	-.00048	-.00007	1.000	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 19:10:57 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.00006**	**-.00038**	**.9995**
Stddev	.00093	.00044	.00001	.0005
%RSD	97.677	764.04	1.8176	.0461
#1	-.00161	-.00025	-.00038	.9998
#2	-.00029	.00037	-.00039	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5763.9**	**7189.2**	**31890.**	**88885.**
Stddev	7.0	11.5	68.	158.
%RSD	.12186	.16020	.21429	.17760
#1	5768.9	7197.3	31938.	88997.
#2	5758.9	7181.0	31842.	88774.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 19:14:21 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00551**	**.22227**	**.01428**	**.01976**	**.00244**
Stddev	.00016	.03260	.00148	.00045	.00030
%RSD	2.8929	14.665	10.331	2.2737	12.470
#1	.00562	.24532	.01324	.01944	.00223
#2	.00540	.19923	.01532	.02008	.00266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.56344**	**.00212**	**.0204**	**.00380**
Stddev	.00008	.01078	.00028	.0171	.00011
%RSD	3.8981	1.9136	13.130	83.75	2.7833
#1	.00188	.57107	.00231	.0325	.00373
#2	.00198	.55582	.00192	.0083	.00388
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.01006**	**.00953**	F **.10182**	**.56741**	**.02957**
Stddev	.00241	.00023	.01676	.01661	.00281
%RSD	23.965	2.4200	16.460	2.9270	9.5007
#1	.00836	.00936	.11367	.57915	.02758
#2	.01177	.00969	.08997	.55567	.03156
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value	.00400		.05000		
Range	50.000%		50.000%		

Sample Name: CCVL-7610998 Acquired: 10/9/2023 19:14:21 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20460**	W **.00409**	**.00975**	**1.0361**	F **.01635**
Stddev	.01140	.00065	.00023	.0310	.00091
%RSD	5.5735	15.953	2.3700	2.9905	5.5851
#1	.19653	.00363	.00959	1.0142	.01570
#2	.21266	.00455	.00991	1.0580	.01699
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Fail
Value		.00300			.01000
Range		30.000%			50.000%

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00940**	**.19907**	**.02019**	**.02525**
Stddev	.00	.00059	.00187	.00099	.00147
%RSD	.0044	6.3260	.94074	4.8877	5.8291
#1	25.00	.00982	.20040	.01950	.02421
#2	25.00	.00898	.19775	.02089	.02629
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50704**	**.00942**	**.00501**	F **1.004**	**.00537**
Stddev	.00610	.00037	.00001	.005	.00029
%RSD	1.2022	3.8777	.26883	.5406	5.3215
#1	.50273	.00968	.00502	1.000	.00517
#2	.51135	.00916	.00500	1.008	.00557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 19:14:21 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01845**	**.00429**	**.00952**	F **1.000**
Stddev	.00013	.00010	.00051	.001
%RSD	.68859	2.2990	5.3808	.1302
#1	.01836	.00422	.00916	.9993
#2	.01854	.00436	.00988	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5539.5**	**6963.0**	**31654.**	**86090.**
Stddev	9.2	16.8	152.	228.
%RSD	.16592	.24140	.47992	.26514
#1	5533.0	6951.2	31761.	86251.
#2	5546.0	6974.9	31546.	85928.

Sample Name: 480-213382-A-5-A Acquired: 10/9/2023 19:17:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**38.689**	**.00852**	**.08845**	**.20283**
Stddev	.00051	.094	.00022	.00023	.00013
%RSD	69.719	.24250	2.5924	.25527	.06236
#1	-.00037	38.756	.00867	.08829	.20292
#2	-.00110	38.623	.00836	.08861	.20274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	F **1272.1**	**.00226**	**.2244**	**.01863**
Stddev	.00003	3.4	.00013	.0062	.00002
%RSD	1.6537	.26770	5.6829	2.767	.13188
#1	.00166	1269.7	.00235	.2287	.01862
#2	.00170	1274.5	.00217	.2200	.01865
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05328**	**.06733**	**49.687**	**12.213**	**.10735**
Stddev	.00274	.00053	.007	.043	.00057
%RSD	5.1500	.78169	.01351	.35126	.53380
#1	.05134	.06696	49.682	12.243	.10776
#2	.05522	.06770	49.692	12.183	.10695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-5-A Acquired: 10/9/2023 19:17:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**124.88**	**1.9463**	**.00115**	**1.9988**	**.05364**
Stddev	.08	.0059	.00004	.0187	.00111
%RSD	.06760	.30173	3.5150	.93299	2.0665
#1	124.82	1.9421	.00112	2.0120	.05285
#2	124.94	1.9504	.00118	1.9856	.05442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.53**	**.03610**	**.71951**	**-.00739**	**-.00817**
Stddev	.00	.00266	.00270	.00143	.00003
%RSD	.0004	7.3699	.37534	19.300	.38870
#1	26.53	.03798	.72142	-.00839	-.00819
#2	26.53	.03422	.71760	-.00638	-.00814
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5153**	**.03935**	**1.0768**	**1.033**	**1.3466**
Stddev	.0778	.00001	.0033	.006	.0050
%RSD	3.0947	.01343	.30255	.6093	.37212
#1	2.5703	.03935	1.0791	1.029	1.3430
#2	2.4602	.03935	1.0745	1.038	1.3501
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-5-A Acquired: 10/9/2023 19:17:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00234**	**.09157**	**.12921**	**1.020**
Stddev	.00468	.00003	.00137	.001
%RSD	199.84	.03545	1.0594	.0934
#1	.00566	.09160	.12824	1.020
#2	-.00097	.09155	.13018	1.021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4649.8**	**6889.4**	**31085.**	**86163.**
Stddev	2.9	3.7	12.	912.
%RSD	.06340	.05374	.03877	1.0585
#1	4651.9	6892.1	31077.	85519.
#2	4647.7	6886.8	31094.	86808.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.957%	97.506%	105.90%	96.637%
Range				

Sample Name: 480-213382-B-6-B Acquired: 10/9/2023 19:21:13 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**73.232**	**.03322**	**.13913**	**.38215**
Stddev	.00021	.154	.00058	.00002	.00692
%RSD	19.599	.21043	1.7431	.01315	1.8109
#1	-.00119	73.123	.03363	.13915	.37725
#2	-.00090	73.341	.03281	.13912	.38704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00288**	F **962.88**	**.00426**	**.1834**	**.04140**
Stddev	.00001	8.65	.00010	.0452	.00013
%RSD	.41812	.89838	2.4587	24.66	.32424
#1	.00287	956.76	.00419	.1514	.04149
#2	.00289	969.00	.00434	.2154	.04130
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08317**	**.33724**	**112.40**	**23.373**	**.17387**
Stddev	.00085	.00312	.42	.038	.00353
%RSD	1.0223	.92629	.37522	.16365	2.0298
#1	.08257	.33503	112.10	23.346	.17138
#2	.08377	.33945	112.69	23.400	.17637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-6-B Acquired: 10/9/2023 19:21:13 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**211.42**	**4.9389**	**.00379**	**1.7128**	**.11384**
Stddev	4.70	.0708	.00019	.0084	.00061
%RSD	2.2232	1.4344	5.1331	.49257	.53519
#1	208.09	4.8888	.00365	1.7069	.11341
#2	214.74	4.9890	.00393	1.7188	.11427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.61**	**.20048**	**1.1043**	**-.00687**	**-.01100**
Stddev	.01	.00016	.0017	.00037	.00145
%RSD	.0209	.07885	.15542	5.3650	13.165
#1	26.61	.20059	1.1056	-.00713	-.01202
#2	26.60	.20037	1.1031	-.00661	-.00997
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9474**	**.05615**	**.97768**	**1.058**	**1.2120**
Stddev	.0514	.00110	.00118	.008	.0106
%RSD	1.0384	1.9609	.12027	.7484	.87045
#1	4.9837	.05692	.97685	1.063	1.2045
#2	4.9110	.05537	.97851	1.052	1.2195
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-6-B Acquired: 10/9/2023 19:21:13 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**.14165**	**.52103**	**1.032**
Stddev	.00036	.00162	.00269	.001
%RSD	168.17	1.1422	.51647	.0746
#1	.00046	.14050	.51913	1.032
#2	-.00004	.14279	.52293	1.033
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4634.0**	**6901.7**	**31439.**	**86171.**
Stddev	6.7	5.3	328.	481.
%RSD	.14406	.07746	1.0445	.55871
#1	4629.3	6905.5	31671.	85831.
#2	4638.8	6897.9	31206.	86512.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.682%	97.679%	107.11%	96.645%
Range				

Sample Name: 480-213382-A-7-A Acquired: 10/9/2023 19:24:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**61.730**	**.02663**	**.13244**	**.37473**
Stddev	.00061	.412	.00124	.00039	.00148
%RSD	91.953	.66813	4.6419	.29819	.39441
#1	-.00109	62.022	.02576	.13216	.37578
#2	-.00023	61.439	.02751	.13272	.37369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	F **1218.0**	**.00718**	**.3217**	**.02837**
Stddev	.00005	3.6	.00006	.0558	.00047
%RSD	2.0371	.29314	.79165	17.36	1.6476
#1	.00230	1215.5	.00714	.3612	.02870
#2	.00237	1220.5	.00722	.2823	.02804
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07345**	**1.0608**	**79.725**	**18.894**	**.15264**
Stddev	.00008	.0017	.373	.137	.00002
%RSD	.11415	.15906	.46843	.72705	.01540
#1	.07351	1.0596	79.989	18.991	.15265
#2	.07339	1.0620	79.461	18.797	.15262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-7-A Acquired: 10/9/2023 19:24:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**132.94**	**2.1854**	**.00479**	**1.8016**	**.08454**
Stddev	1.15	.0040	.00020	.0162	.00054
%RSD	.86182	.18224	4.1003	.89727	.63365
#1	132.13	2.1825	.00493	1.8130	.08492
#2	133.75	2.1882	.00465	1.7902	.08416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.45**	**.81595**	**1.3240**	**.00264**	**-.00647**
Stddev	.01	.00531	.0039	.00329	.00016
%RSD	.0220	.65065	.29045	124.52	2.4845
#1	26.45	.81970	1.3267	.00497	-.00636
#2	26.44	.81219	1.3213	.00032	-.00659
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6872**	**.07007**	**1.1485**	**1.044**	**1.3588**
Stddev	.1318	.00032	.0062	.009	.0017
%RSD	2.8115	.46155	.53990	.8347	.12615
#1	4.7804	.07030	1.1528	1.038	1.3600
#2	4.5940	.06984	1.1441	1.050	1.3576
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-7-A Acquired: 10/9/2023 19:24:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.11280**	**.81829**	**1.028**
Stddev	.00252	.00113	.00043	.002
%RSD	220.82	1.0062	.05262	.2067
#1	-.00292	.11200	.81859	1.029
#2	.00064	.11361	.81798	1.026
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4643.9**	**6889.6**	**31292.**	**86309.**
Stddev	7.8	2.5	65.	684.
%RSD	.16870	.03607	.20834	.79275
#1	4638.3	6891.3	31246.	85826.
#2	4649.4	6887.8	31338.	86793.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.853%	97.508%	106.61%	96.800%
Range				

Sample Name: 480-213382-A-8-A Acquired: 10/9/2023 19:28:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00207**	**47.210**	**.01603**	**.09294**	**.19576**
Stddev	.00139	.529	.00010	.00099	.00098
%RSD	67.011	1.1214	.59719	1.0601	.49946
#1	-.00109	46.836	.01610	.09363	.19645
#2	-.00305	47.584	.01596	.09224	.19507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	F **1358.0**	**.00189**	**.2198**	**.02011**
Stddev	.00007	1.6	.00045	.0198	.00018
%RSD	3.8681	.11662	24.019	9.002	.90311
#1	.00180	1356.9	.00221	.2058	.02024
#2	.00190	1359.2	.00157	.2338	.01998
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05280**	**.07288**	**59.611**	**13.152**	**.11896**
Stddev	.00023	.00027	.493	.118	.00308
%RSD	.43977	.37614	.82693	.89994	2.5919
#1	.05296	.07308	59.263	13.068	.11678
#2	.05263	.07269	59.960	13.236	.12114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-8-A Acquired: 10/9/2023 19:28:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.136**	**1.7543**	**.00114**	**1.4919**	**.05997**
Stddev	.134	.0103	.00009	.0127	.00191
%RSD	.33315	.58586	7.9118	.85406	3.1892
#1	40.231	1.7615	.00121	1.4829	.06132
#2	40.042	1.7470	.00108	1.5010	.05862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.48**	**.03178**	**.53456**	**-.01105**	**-.01360**
Stddev	.00	.00168	.00595	.00311	.00378
%RSD	.0104	5.2962	1.1131	28.178	27.817
#1	26.49	.03297	.53877	-.01326	-.01628
#2	26.48	.03059	.53036	-.00885	-.01092
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2898**	**.05256**	**1.2083**	**1.032**	**1.2927**
Stddev	.0075	.00066	.0123	.005	.0086
%RSD	.17424	1.2640	1.0163	.4735	.66489
#1	4.2951	.05303	1.1997	1.035	1.2988
#2	4.2845	.05209	1.2170	1.028	1.2867
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-8-A Acquired: 10/9/2023 19:28:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00084**	**.09426**	**.12188**	**1.028**
Stddev	.00098	.00073	.00032	.001
%RSD	116.79	.77353	.26661	.0672
#1	.00015	.09478	.12165	1.028
#2	.00153	.09375	.12211	1.027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4630.4**	**6941.5**	**31724.**	**86109.**
Stddev	3.5	2.5	28.	211.
%RSD	.07586	.03614	.08672	.24495
#1	4632.9	6943.3	31705.	86258.
#2	4628.0	6939.7	31743.	85960.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.619%	98.243%	108.08%	96.575%
Range				

Sample Name: 480-213382-A-9-A Acquired: 10/9/2023 19:31:49 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00142**	**45.137**	**.01820**	**.09708**	**.20632**
Stddev	.00100	.001	.00115	.00043	.00175
%RSD	70.171	.00203	6.3475	.44088	.84996
#1	-.00213	45.138	.01738	.09738	.20756
#2	-.00072	45.137	.01901	.09677	.20508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	F **1398.9**	**.00197**	**.2138**	**.02054**
Stddev	.00013	29.6	.00033	.0005	.00024
%RSD	6.7177	2.1196	16.735	.2236	1.1869
#1	.00181	1419.8	.00174	.2135	.02071
#2	.00199	1377.9	.00221	.2142	.02036
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05253**	**.07684**	**61.959**	**13.864**	**.12134**
Stddev	.00091	.00043	.258	.004	.00086
%RSD	1.7420	.55933	.41667	.02788	.70629
#1	.05317	.07714	62.141	13.867	.12074
#2	.05188	.07653	61.776	13.861	.12195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-9-A Acquired: 10/9/2023 19:31:49 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**95.240**	**1.7758**	**.00167**	**1.8940**	**.06176**
Stddev	2.047	.0245	.00010	.0044	.00044
%RSD	2.1491	1.3776	6.0553	.23110	.70720
#1	96.687	1.7931	.00160	1.8909	.06145
#2	93.793	1.7585	.00174	1.8971	.06207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.47**	**.03251**	**.65154**	**-.00845**	**-.00840**
Stddev	.01	.00031	.00319	.00448	.00267
%RSD	.0273	.95911	.48897	53.013	31.797
#1	26.48	.03273	.64929	-.00528	-.01029
#2	26.47	.03229	.65380	-.01162	-.00651
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9638**	**.05017**	**1.2678**	**1.032**	**1.3967**
Stddev	.0932	.00171	.0045	.003	.0184
%RSD	1.8779	3.4022	.35511	.3188	1.3150
#1	5.0297	.05137	1.2709	1.035	1.4096
#2	4.8979	.04896	1.2646	1.030	1.3837
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-9-A Acquired: 10/9/2023 19:31:49 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.09448**	**.13497**	**1.025**
Stddev	.00044	.00139	.00179	.001
%RSD	275.16	1.4675	1.3280	.0723
#1	-.00047	.09546	.13623	1.025
#2	.00015	.09350	.13370	1.024
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4581.2**	**6815.5**	**30762.**	**84813.**
Stddev	.8	4.9	575.	641.
%RSD	.01823	.07151	1.8688	.75580
#1	4580.6	6812.1	30356.	84360.
#2	4581.8	6819.0	31169.	85267.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.762%	96.460%	104.80%	95.122%
Range				

Sample Name: 480-213382-A-10-A Acquired: 10/9/2023 19:35:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**43.672**	**.01666**	**.09151**	**.21164**
Stddev	.00064	.119	.00103	.00055	.00067
%RSD	68.301	.27260	6.1816	.60008	.31723
#1	-.00139	43.588	.01593	.09190	.21212
#2	-.00048	43.756	.01739	.09112	.21117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	F **1378.0**	**.00252**	**.2344**	**.01914**
Stddev	.00004	13.3	.00006	.0070	.00002
%RSD	2.3735	.96456	2.2725	3.004	.12047
#1	.00178	1368.6	.00248	.2394	.01915
#2	.00172	1387.4	.00256	.2294	.01912
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05162**	**.16177**	**57.440**	**13.134**	**.11548**
Stddev	.00113	.00076	.040	.014	.00006
%RSD	2.1812	.46719	.06924	.10304	.05312
#1	.05083	.16231	57.468	13.125	.11552
#2	.05242	.16124	57.411	13.144	.11543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-10-A Acquired: 10/9/2023 19:35:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.925**	**1.8888**	**.00166**	**1.5368**	**.06071**
Stddev	.119	.0059	.00028	.0005	.00038
%RSD	.22887	.31374	16.829	.03543	.62235
#1	52.009	1.8930	.00146	1.5372	.06098
#2	51.841	1.8846	.00186	1.5364	.06045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.36**	**.09485**	**.57047**	**-.00600**	**-.01020**
Stddev	.01	.00240	.00384	.00040	.00169
%RSD	.0269	2.5263	.67226	6.6963	16.513
#1	26.36	.09655	.57318	-.00628	-.00901
#2	26.35	.09316	.56776	-.00571	-.01140
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1411**	**.05177**	**1.2398**	**1.029**	**1.2944**
Stddev	.0522	.00057	.0011	.004	.0042
%RSD	1.0152	1.0952	.08963	.4341	.32063
#1	5.1780	.05217	1.2390	1.032	1.2973
#2	5.1042	.05137	1.2406	1.026	1.2914
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-10-A Acquired: 10/9/2023 19:35:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**.08968**	**.18375**	**1.024**
Stddev	.00084	.00044	.00032	.001
%RSD	291.67	.49054	.17346	.0580
#1	.00088	.08999	.18398	1.024
#2	-.00031	.08937	.18353	1.023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4614.4**	**6854.9**	**30770.**	**85478.**
Stddev	1.7	.3	155.	173.
%RSD	.03593	.00467	.50479	.20248
#1	4613.2	6855.1	30660.	85355.
#2	4615.6	6854.6	30880.	85600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.340%	97.017%	104.83%	95.867%
Range				

Sample Name: 480-213382-B-11-B Acquired: 10/9/2023 19:38:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**41.895**	**.01887**	**.08681**	**.21284**
Stddev	.00040	.016	.00009	.00014	.00056
%RSD	32.544	.03836	.45721	.15702	.26523
#1	-.00153	41.907	.01880	.08691	.21244
#2	-.00096	41.884	.01893	.08672	.21324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	F **1612.5**	**.00215**	**.2226**	**.02031**
Stddev	.00006	7.7	.00044	.0028	.00013
%RSD	3.3568	.47850	20.355	1.246	.62103
#1	.00163	1617.9	.00184	.2207	.02040
#2	.00171	1607.0	.00246	.2246	.02022
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05097**	**.08476**	**56.199**	**11.988**	**.12026**
Stddev	.00025	.00132	.008	.025	.00563
%RSD	.49725	1.5614	.01404	.21017	4.6774
#1	.05114	.08382	56.194	12.006	.11628
#2	.05079	.08569	56.205	11.970	.12424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-11-B Acquired: 10/9/2023 19:38:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.435**	**2.1265**	**.00163**	**1.9198**	**.06405**
Stddev	.069	.0178	.00003	.0013	.00169
%RSD	.26219	.83641	1.5409	.06789	2.6383
#1	26.386	2.1139	.00161	1.9189	.06524
#2	26.484	2.1391	.00165	1.9207	.06285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.52**	**.09606**	**.74555**	**-.01160**	**-.00908**
Stddev	.00	.00013	.00091	.00262	.00058
%RSD	.0015	.13196	.12173	22.555	6.4405
#1	26.52	.09615	.74620	-.00975	-.00949
#2	26.52	.09597	.74491	-.01346	-.00867
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4605**	**.02820**	**1.2616**	**1.031**	**1.0454**
Stddev	.0887	.00070	.0010	.001	.0063
%RSD	2.5634	2.4922	.07501	.1032	.59928
#1	3.5232	.02770	1.2609	1.030	1.0410
#2	3.3977	.02870	1.2622	1.032	1.0498
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-11-B Acquired: 10/9/2023 19:38:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00277**	**.09178**	**.14125**	**1.024**
Stddev	.00259	.00031	.00034	.001
%RSD	93.389	.34191	.24038	.0502
#1	.00460	.09155	.14101	1.025
#2	.00094	.09200	.14149	1.024
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4613.9**	**6967.9**	**31552.**	**86655.**
Stddev	2.2	21.7	53.	781.
%RSD	.04835	.31199	.16752	.90079
#1	4612.3	6983.3	31589.	86103.
#2	4615.5	6952.6	31514.	87207.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.331%	98.617%	107.49%	97.188%
Range				

Sample Name: 480-213382-B-12-B Acquired: 10/9/2023 19:42:03 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**52.303**	**.02341**	**.10458**	**.22478**
Stddev	.00180	.198	.00240	.00024	.00106
%RSD	172.37	.37950	10.256	.23167	.47309
#1	.00023	52.163	.02511	.10440	.22403
#2	-.00232	52.444	.02172	.10475	.22553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	F **1365.1**	**.00327**	**.2098**	**.02243**
Stddev	.00004	1.3	.00033	.0128	.00008
%RSD	1.5604	.09722	10.122	6.079	.34017
#1	.00246	1366.0	.00303	.2188	.02249
#2	.00240	1364.2	.00350	.2008	.02238
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06464**	**.07374**	**65.825**	**15.012**	**.12417**
Stddev	.00231	.00003	.169	.073	.00193
%RSD	3.5741	.03995	.25703	.48379	1.5575
#1	.06301	.07372	65.705	15.063	.12281
#2	.06627	.07376	65.944	14.960	.12554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-12-B Acquired: 10/9/2023 19:42:03 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**55.792**	**1.7618**	**.00121**	**1.5094**	**.06312**
Stddev	.651	.0268	.00023	.0039	.00115
%RSD	1.1661	1.5187	19.299	.26127	1.8260
#1	55.332	1.7429	.00138	1.5066	.06393
#2	56.252	1.7807	.00105	1.5122	.06230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.33**	**.05758**	**.68176**	**-.00759**	**-.01123**
Stddev	.00	.00033	.00121	.00068	.00168
%RSD	.0110	.56478	.17794	8.9045	15.003
#1	26.33	.05781	.68262	-.00806	-.01004
#2	26.33	.05735	.68091	-.00711	-.01242
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6555**	**.05197**	**1.0792**	**1.034**	**1.3155**
Stddev	.0612	.00074	.0006	.003	.0195
%RSD	1.0816	1.4308	.05750	.2654	1.4811
#1	5.6988	.05250	1.0787	1.036	1.3017
#2	5.6123	.05145	1.0796	1.033	1.3293
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-12-B Acquired: 10/9/2023 19:42:03 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**.10768**	**.12715**	**1.028**
Stddev	.00056	.00107	.00133	.001
%RSD	49.002	.99364	1.0447	.0918
#1	.00075	.10692	.12621	1.029
#2	.00154	.10844	.12809	1.028
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4626.7**	**6952.7**	**31702.**	**85532.**
Stddev	5.4	6.5	579.	100.
%RSD	.11649	.09358	1.8260	.11670
#1	4630.5	6957.3	32111.	85462.
#2	4622.9	6948.1	31293.	85603.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.554%	98.401%	108.00%	95.929%
Range				

Sample Name: 480-213382-B-13-B Acquired: 10/9/2023 19:45:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**51.815**	**.02019**	**.11697**	**.24441**
Stddev	.00011	.130	.00251	.00127	.00019
%RSD	26.335	.25067	12.429	1.0881	.07905
#1	-.00034	51.723	.02196	.11787	.24455
#2	-.00049	51.907	.01841	.11607	.24427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	F **1606.9**	**.00261**	**.2174**	**.02126**
Stddev	.00005	.5	.00037	.0448	.00005
%RSD	2.4222	.03036	14.245	20.60	.21523
#1	.00223	1607.2	.00234	.1858	.02129
#2	.00216	1606.5	.00287	.2491	.02122
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06120**	**.14333**	**63.857**	**15.125**	**.13538**
Stddev	.00119	.00031	.337	.040	.00061
%RSD	1.9363	.21842	.52793	.26413	.44759
#1	.06204	.14355	63.619	15.096	.13581
#2	.06036	.14310	64.096	15.153	.13495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-13-B Acquired: 10/9/2023 19:45:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.588**	**1.9887**	**.00205**	**1.5985**	**.06716**
Stddev	.124	.0013	.00002	.0066	.00107
%RSD	.21490	.06662	.87848	.41115	1.5995
#1	57.501	1.9896	.00207	1.5938	.06792
#2	57.676	1.9877	.00204	1.6031	.06640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.49**	**.11804**	**.88476**	**-.00941**	**-.00875**
Stddev	.00	.00041	.00962	.00420	.00174
%RSD	.0083	.34418	1.0871	44.626	19.872
#1	26.49	.11775	.89156	-.00644	-.00752
#2	26.49	.11833	.87796	-.01238	-.00998
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5129**	**.05148**	**1.3538**	**1.031**	**1.1961**
Stddev	.1040	.00144	.0003	.002	.0024
%RSD	2.3034	2.7904	.02359	.1915	.19718
#1	4.5864	.05249	1.3536	1.033	1.1978
#2	4.4394	.05046	1.3541	1.030	1.1945
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-13-B Acquired: 10/9/2023 19:45:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00123**	**.10219**	**.17073**	**1.027**
Stddev	.00136	.00100	.00028	.000
%RSD	110.70	.97493	.16569	.0427
#1	.00027	.10290	.17053	1.028
#2	.00219	.10149	.17093	1.027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4564.0**	**6903.9**	**31574.**	**85985.**
Stddev	2.2	.4	13.	92.
%RSD	.04725	.00517	.04125	.10755
#1	4562.4	6904.1	31583.	86051.
#2	4565.5	6903.6	31564.	85920.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.462%	97.710%	107.57%	96.437%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 19:48:46 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94012**	**50.273**	**1.0118**	**.99743**	**.98285**
Stddev	.00328	.660	.0024	.00099	.01261
%RSD	.34854	1.3138	.23375	.09879	1.2831
#1	.94244	49.806	1.0135	.99812	.97393
#2	.93781	50.740	1.0101	.99673	.99176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99980**	**49.013**	**1.0480**	**1.010**	**1.0081**
Stddev	.01801	.659	.0045	.065	.0010
%RSD	1.8014	1.3439	.42895	6.412	.09943
#1	.98707	48.547	1.0448	.9638	1.0088
#2	1.0125	49.479	1.0511	1.055	1.0074
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91306**	**.92841**	**49.229**	**49.971**	**.98085**
Stddev	.00006	.00303	.645	.752	.01000
%RSD	.00623	.32605	1.3095	1.5057	1.0195
#1	.91302	.93055	48.773	49.439	.97378
#2	.91310	.92627	49.685	50.504	.98793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 19:48:46 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.392**	**.94067**	**.98811**	**49.967**	**1.0126**
Stddev	.003	.00092	.00542	.627	.0023
%RSD	.00692	.09764	.54858	1.2552	.22845
#1	48.394	.94132	.99194	49.524	1.0142
#2	48.390	.94002	.98427	50.410	1.0109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.55**	**1.0112**	**24.029**	**1.0131**	**1.0079**
Stddev	.02	.0037	.090	.0034	.0005
%RSD	.0450	.36424	.37659	.33690	.05159
#1	37.56	1.0138	24.093	1.0155	1.0076
#2	37.53	1.0086	23.965	1.0107	1.0083
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.195**	**.99386**	**1.0033**	**1.502**	**.93674**
Stddev	.184	.00421	.0197	.016	.00160
%RSD	1.8088	.42407	1.9667	1.060	.17029
#1	10.065	.99684	.98937	1.490	.93787
#2	10.325	.99088	1.0173	1.513	.93562
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 19:48:46 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99490**	**.93771**	**.96216**	**1.489**
Stddev	.00384	.00112	.00319	.008
%RSD	.38567	.11968	.33193	.5071
#1	.99761	.93851	.96442	1.484
#2	.99218	.93692	.95990	1.494
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5217.5**	**6756.2**	**30502.**	**83309.**
Stddev	13.7	28.0	58.	183.
%RSD	.26224	.41419	.18926	.21979
#1	5207.9	6736.4	30461.	83438.
#2	5227.2	6776.0	30543.	83179.

Sample Name: CCB-7506043 Acquired: 10/9/2023 19:52:00 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.02365**	**.00076**	**.00003**	**.00011**
Stddev	.00052	.00744	.00077	.00063	.00015
%RSD	120.39	31.465	100.55	2086.1	126.75
#1	-.00080	-.01839	.00022	.00047	.00001
#2	-.00006	-.02892	.00130	-.00041	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.27136**	**-.00034**	**-.0242**	**-.00023**
Stddev	.00003	.01694	.00032	.0082	.00011
%RSD	34.416	6.2430	93.301	33.93	47.541
#1	-.00007	.28334	-.00057	-.0184	-.00031
#2	-.00012	.25939	-.00012	-.0300	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00274**	**.00076**	**.02445**	**.09700**	**.00012**
Stddev	.00088	.00025	.00479	.02373	.00276
%RSD	32.127	33.037	19.580	24.462	2388.2
#1	.00212	.00058	.02784	.08022	.00207
#2	.00336	.00094	.02106	.11377	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 19:52:00 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01815**	**.00089**	**.00160**	**-.00939**	**.00314**
Stddev	.01648	.00054	.00036	.00225	.00016
%RSD	90.816	60.111	22.522	23.975	5.0909
#1	.00650	.00051	.00134	-.00780	.00303
#2	.02981	.00127	.00185	-.01098	.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00033**	**.00196**	**.00012**	**.00113**
Stddev	.00	.00029	.00154	.00162	.00003
%RSD	.0045	88.998	78.892	1361.0	2.6372
#1	25.00	.00012	.00086	.00127	.00115
#2	25.00	.00054	.00305	-.00103	.00111
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00234**	**.00014**	**.00008**	**1.002**	**.00117**
Stddev	.00510	.00023	.00009	.004	.00013
%RSD	217.92	164.16	113.84	.4207	10.784
#1	-.00127	.00030	.00014	.9989	.00108
#2	.00594	-.00002	.00002	1.005	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 19:52:00 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.00063**	**-.00023**	**1.000**
Stddev	.00169	.00026	.00010	.001
%RSD	435.30	41.871	44.532	.0718
#1	.00081	-.00081	-.00016	1.001
#2	-.00158	-.00044	-.00030	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5741.5**	**7186.0**	**32380.**	**88559.**
Stddev	.7	7.8	18.	362.
%RSD	.01147	.10921	.05467	.40879
#1	5741.1	7191.5	32367.	88815.
#2	5742.0	7180.4	32392.	88303.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 19:55:23 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**.19690**	**.01438**	**.01901**	**.00193**
Stddev	.00023	.02217	.00152	.00004	.00004
%RSD	4.4813	11.261	10.562	.22525	2.0429
#1	.00536	.21258	.01331	.01904	.00190
#2	.00503	.18123	.01545	.01898	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	W **.71676**	**.00179**	**-.0347**	**.00394**
Stddev	.00004	.04285	.00082	.0102	.00004
%RSD	2.0674	5.9780	45.547	29.23	.95869
#1	.00181	.68646	.00122	-.0419	.00397
#2	.00186	.74705	.00237	-.0276	.00391
Check ?	Chk Pass	Chk Warn	Chk Pass	None	Chk Pass
Value		.50000			
Range		30.000%			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.00929**	**.06443**	**.58811**	**.03173**
Stddev	.00003	.00070	.00869	.00395	.00347
%RSD	.64826	7.4824	13.482	.67183	10.921
#1	.00499	.00978	.05828	.58532	.02928
#2	.00503	.00880	.07057	.59091	.03418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/9/2023 19:55:23 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20008**	**.00329**	**.00988**	**1.0063**	**.01254**
Stddev	.00135	.00005	.00004	.0210	.00049
%RSD	.67615	1.4686	.37436	2.0911	3.8918
#1	.19913	.00325	.00991	.99139	.01220
#2	.20104	.00332	.00986	1.0211	.01289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00906**	**.19673**	**.02273**	**.02185**
Stddev	.00	.00019	.00026	.00010	.00132
%RSD	.0027	2.1488	.13345	.45591	6.0565
#1	25.00	.00919	.19692	.02266	.02091
#2	25.00	.00892	.19654	.02280	.02278
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49300**	**.00958**	**.00489**	F **1.006**	**.00505**
Stddev	.01848	.00049	.00019	.005	.00012
%RSD	3.7487	5.1415	3.9116	.4561	2.3629
#1	.47993	.00923	.00476	1.003	.00513
#2	.50607	.00993	.00503	1.009	.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 19:55:23 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.01775	.00459	.00901	F .9992
Stddev	.00171	.00039	.00016	.0012
%RSD	9.6486	8.5968	1.7521	.1241
#1	.01654	.00487	.00913	1.000
#2	.01896	.00431	.00890	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5541.7	6949.5	31776.	86562.
Stddev	3.6	8.9	46.	693.
%RSD	.06460	.12856	.14520	.80106
#1	5539.1	6943.1	31809.	87053.
#2	5544.2	6955.8	31743.	86072.

Sample Name: 480-213382-A-14-A Acquired: 10/9/2023 19:58:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**47.660**	**.01659**	**.10536**	**.22738**
Stddev	.00066	.181	.00011	.00005	.00012
%RSD	389.86	.37894	.67384	.04623	.05430
#1	.00030	47.533	.01651	.10533	.22746
#2	-.00063	47.788	.01667	.10540	.22729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	F **1458.4**	**.00216**	**.1651**	**.01940**
Stddev	.00007	21.9	.00004	.0261	.00043
%RSD	4.0480	1.4991	1.9520	15.80	2.2311
#1	.00179	1442.9	.00219	.1836	.01910
#2	.00190	1473.8	.00213	.1467	.01971
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05243**	**.10026**	**58.580**	**14.259**	**.12491**
Stddev	.00030	.00120	.547	.024	.00339
%RSD	.58141	1.1932	.93431	.16866	2.7169
#1	.05265	.10110	58.193	14.242	.12731
#2	.05222	.09941	58.967	14.276	.12251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-14-A Acquired: 10/9/2023 19:58:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**81.362**	**1.7034**	**.00174**	**1.6511**	**.06200**
Stddev	.065	.0035	.00002	.0019	.00072
%RSD	.07999	.20457	1.2472	.11237	1.1669
#1	81.408	1.7059	.00173	1.6524	.06149
#2	81.316	1.7009	.00176	1.6498	.06251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.34**	**.04785**	**.72742**	**-.01159**	**-.00618**
Stddev	.00	.00067	.00310	.00122	.00459
%RSD	.0110	1.4004	.42569	10.556	74.305
#1	26.34	.04832	.72961	-.01073	-.00943
#2	26.34	.04738	.72523	-.01246	-.00293
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9380**	**.05122**	**1.3199**	**1.033**	**1.3423**
Stddev	.0447	.00033	.0019	.002	.0036
%RSD	1.1337	.65232	.14655	.2125	.26679
#1	3.9696	.05099	1.3186	1.031	1.3448
#2	3.9065	.05146	1.3213	1.034	1.3398
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-14-A Acquired: 10/9/2023 19:58:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00110**	**.09318**	**.14407**	**1.026**
Stddev	.00037	.00071	.00019	.000
%RSD	33.771	.75980	.13331	.0368
#1	.00084	.09369	.14421	1.026
#2	.00137	.09268	.14394	1.027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4574.0**	**6852.0**	**31582.**	**85184.**
Stddev	2.3	.3	92.	29.
%RSD	.05057	.00389	.29038	.03348
#1	4572.3	6851.8	31517.	85204.
#2	4575.6	6852.2	31646.	85164.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.637%	96.975%	107.60%	95.538%
Range				

Sample Name: 480-213382-B-15-B Acquired: 10/9/2023 20:02:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00211**	**91.124**	**.04160**	**.13205**	**.30552**
Stddev	.00033	.497	.00416	.00040	.00220
%RSD	15.739	.54528	10.008	.30411	.72046
#1	-.00188	90.773	.04454	.13177	.30396
#2	-.00235	91.476	.03865	.13233	.30707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00355**	**147.10**	**.00488**	**.3991**	**.04762**
Stddev	.00017	1.65	.00028	.0367	.00039
%RSD	4.9113	1.1200	5.8268	9.183	.81117
#1	.00343	145.94	.00468	.4250	.04789
#2	.00367	148.27	.00508	.3732	.04735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09699**	**.09324**	**122.40**	**21.063**	**.11684**
Stddev	.00104	.00053	.57	.078	.00325
%RSD	1.0677	.56575	.46594	.36955	2.7828
#1	.09772	.09361	122.00	21.008	.11454
#2	.09626	.09286	122.80	21.118	.11914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-15-B Acquired: 10/9/2023 20:02:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.389**	**3.0636**	**.00246**	**1.3849**	**.10729**
Stddev	.072	.0088	.00001	.0148	.00140
%RSD	.10248	.28557	.24619	1.0707	1.3071
#1	70.338	3.0698	.00245	1.3744	.10829
#2	70.440	3.0574	.00246	1.3954	.10630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.33**	**.09916**	**.50119**	**-.01289**	**-.00153**
Stddev	.00	.00068	.00613	.00063	.00119
%RSD	.0061	.68261	1.2223	4.8525	77.536
#1	27.33	.09964	.50552	-.01333	-.00237
#2	27.33	.09868	.49686	-.01245	-.00069
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4495**	**.05196**	**.25597**	**1.066**	**2.0248**
Stddev	.0398	.00012	.00113	.000	.0069
%RSD	.73049	.23264	.44305	.0018	.34269
#1	5.4777	.05205	.25517	1.066	2.0297
#2	5.4214	.05188	.25678	1.066	2.0199
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-B-15-B Acquired: 10/9/2023 20:02:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00378**	**.17858**	**.44509**	**1.035**
Stddev	.00196	.00041	.00116	.000
%RSD	51.749	.23165	.26172	.0201
#1	-.00240	.17887	.44427	1.035
#2	-.00517	.17828	.44592	1.035
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5098.3**	**7456.1**	**34093.**	**93115.**
Stddev	7.1	8.1	97.	61.
%RSD	.13884	.10900	.28523	.06557
#1	5103.3	7461.9	34024.	93072.
#2	5093.3	7450.4	34161.	93158.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.765%	105.53%	116.15%	104.43%
Range				

Sample Name: 480-213382-A-16-A Acquired: 10/9/2023 20:05:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00280**	**89.832**	**.04052**	**.11261**	**.30600**
Stddev	.00003	.101	.00077	.00067	.00272
%RSD	1.2180	.11243	1.9085	.59481	.88873
#1	-.00282	89.760	.04107	.11213	.30408
#2	-.00278	89.903	.03998	.11308	.30792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00351**	**138.88**	**.00441**	**.3515**	**.04653**
Stddev	.00006	.96	.00078	.0441	.00027
%RSD	1.5722	.69015	17.784	12.55	.59056
#1	.00355	139.55	.00496	.3203	.04633
#2	.00347	138.20	.00385	.3826	.04672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09242**	**.08427**	**121.43**	**19.162**	**.11373**
Stddev	.00066	.00077	.45	.107	.00433
%RSD	.70941	.91635	.37073	.55863	3.8056
#1	.09196	.08373	121.75	19.238	.11679
#2	.09289	.08482	121.11	19.086	.11066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-16-A Acquired: 10/9/2023 20:05:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.180**	**3.1695**	**.00249**	**1.2635**	**.10001**
Stddev	.039	.0207	.00014	.0056	.00068
%RSD	.06701	.65429	5.5428	.44281	.67582
#1	58.153	3.1548	.00239	1.2596	.09954
#2	58.208	3.1841	.00259	1.2675	.10049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.11**	**.09530**	**.54825**	**-.01315**	**.00056**
Stddev	.00	.00003	.00115	.00174	.00266
%RSD	.0155	.02951	.20940	13.216	472.92
#1	27.12	.09532	.54907	-.01438	.00244
#2	27.11	.09528	.54744	-.01192	-.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4750**	**.05236**	**.21572**	**1.068**	**2.2618**
Stddev	.1519	.00011	.00043	.005	.0036
%RSD	3.3937	.20162	.19943	.4781	.15836
#1	4.5824	.05243	.21603	1.072	2.2593
#2	4.3676	.05228	.21542	1.065	2.2643
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-16-A Acquired: 10/9/2023 20:05:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00400**	**.17764**	**.42062**	**1.034**
Stddev	.00010	.00019	.00094	.001
%RSD	2.5127	.10495	.22410	.1102
#1	-.00407	.17750	.41996	1.035
#2	-.00393	.17777	.42129	1.034
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5136.2**	**7385.3**	**33882.**	**91541.**
Stddev	3.6	1.3	92.	3.
%RSD	.07059	.01747	.27283	.00306
#1	5138.8	7384.4	33947.	91539.
#2	5133.7	7386.2	33816.	91543.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.426%	104.52%	115.43%	102.67%
Range				

Sample Name: 480-213382-A-17-A Acquired: 10/9/2023 20:09:11 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**100.75**	**.04507**	**.14552**	**.74078**
Stddev	.00057	.25	.00031	.00039	.00514
%RSD	1572.7	.24514	.67789	.27025	.69429
#1	-.00044	100.92	.04528	.14579	.74442
#2	.00037	100.57	.04485	.14524	.73715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00364**	**357.76**	**.01166**	**.4199**	**.04746**
Stddev	.00002	.83	.00006	.0265	.00069
%RSD	.62146	.23181	.53189	6.315	1.4636
#1	.00365	357.18	.01170	.4386	.04795
#2	.00362	358.35	.01161	.4011	.04697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12000**	**1.6411**	**124.38**	**23.262**	**.13302**
Stddev	.00097	.0118	.33	.098	.00371
%RSD	.80564	.71647	.26668	.42118	2.7928
#1	.11932	1.6494	124.62	23.331	.13564
#2	.12069	1.6327	124.15	23.192	.13039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-17-A Acquired: 10/9/2023 20:09:11 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**107.68**	**2.8916**	**.00573**	**1.8191**	**.13413**
Stddev	.03	.0343	.00003	.0007	.00077
%RSD	.03093	1.1850	.55857	.03617	.57200
#1	107.66	2.8674	.00570	1.8186	.13467
#2	107.71	2.9158	.00575	1.8196	.13358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.07**	**1.5455**	**1.3208**	**.00955**	**-.00165**
Stddev	.02	.0060	.0087	.00186	.00293
%RSD	.0574	.38840	.66041	19.476	177.95
#1	28.08	1.5497	1.3270	.01087	.00043
#2	28.06	1.5413	1.3146	.00824	-.00372
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2235**	**.08521**	**.44789**	**1.070**	**1.9431**
Stddev	.0757	.00095	.00332	.003	.0152
%RSD	2.3495	1.1183	.74119	.2518	.78132
#1	3.2770	.08453	.45024	1.072	1.9539
#2	3.1699	.08588	.44554	1.068	1.9324
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-17-A Acquired: 10/9/2023 20:09:11 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00189**	**.17729**	**1.3525**	**1.023**
Stddev	.00056	.00017	.0027	.000
%RSD	29.525	.09673	.19979	.0049
#1	-.00149	.17742	1.3544	1.023
#2	-.00228	.17717	1.3505	1.023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4983.7**	**7506.9**	**34765.**	**93695.**
Stddev	1.9	6.0	137.	122.
%RSD	.03803	.08034	.39425	.12998
#1	4985.0	7511.2	34668.	93609.
#2	4982.3	7502.7	34862.	93781.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.770%	106.25%	118.44%	105.08%
Range				

Sample Name: 480-213382-A-18-A Acquired: 10/9/2023 20:12:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00167**	**105.01**	**.04125**	**.12297**	**.46879**
Stddev	.00033	.30	.00012	.00021	.01056
%RSD	19.520	.28178	.27950	.17007	2.2520
#1	-.00144	104.80	.04117	.12312	.46132
#2	-.00191	105.22	.04133	.12283	.47625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**348.54**	**.00501**	**.3647**	**.04030**
Stddev	.00004	7.55	.00013	.0203	.00044
%RSD	1.0639	2.1655	2.6942	5.561	1.0812
#1	.00370	353.88	.00510	.3503	.04061
#2	.00376	343.20	.00491	.3790	.03999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09929**	**.16370**	**105.52**	**16.605**	**.13484**
Stddev	.00161	.00177	.55	.005	.00502
%RSD	1.6257	1.0816	.52254	.03073	3.7204
#1	.09815	.16244	105.13	16.601	.13130
#2	.10043	.16495	105.91	16.609	.13839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-18-A Acquired: 10/9/2023 20:12:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**150.92**	**3.0234**	**.00297**	**1.3741**	**.09156**
Stddev	2.58	.0716	.00026	.0015	.00085
%RSD	1.7115	2.3693	8.7053	.10825	.92718
#1	149.10	2.9727	.00279	1.3731	.09216
#2	152.75	3.0740	.00316	1.3752	.09096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.45**	**.25019**	**1.3647**	**-.01023**	**-.00200**
Stddev	.01	.00002	.0003	.00226	.00038
%RSD	.0241	.00879	.02154	22.060	18.763
#1	26.46	.25017	1.3645	-.01182	-.00174
#2	26.45	.25021	1.3649	-.00863	-.00227
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5477**	**.05768**	**.35319**	**1.056**	**2.0107**
Stddev	.1467	.00014	.00103	.002	.0285
%RSD	2.6440	.24216	.29273	.1952	1.4194
#1	5.6514	.05758	.35246	1.054	1.9906
#2	5.4440	.05778	.35392	1.057	2.0309
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-18-A Acquired: 10/9/2023 20:12:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00280**	**.17915**	**.35833**	**1.023**
Stddev	.00324	.00306	.00347	.001
%RSD	115.70	1.7061	.96845	.0882
#1	-.00051	.17699	.35588	1.023
#2	-.00510	.18131	.36079	1.022
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4916.6**	**7423.4**	**34393.**	**92487.**
Stddev	10.0	27.6	565.	136.
%RSD	.20406	.37157	1.6435	.14672
#1	4923.7	7442.9	34793.	92583.
#2	4909.5	7403.9	33994.	92391.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.602%	105.06%	117.17%	103.73%
Range				

Sample Name: 480-213382-A-19-A Acquired: 10/9/2023 20:16:24 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00180**	**113.04**	**.05276**	**.11941**	**.56072**
Stddev	.00093	.01	.00169	.00055	.00820
%RSD	52.038	.00675	3.2064	.45711	1.4628
#1	-.00114	113.04	.05396	.11980	.55492
#2	-.00246	113.05	.05157	.11903	.56652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00441**	**324.74**	**.00853**	**.4004**	**.04575**
Stddev	.00004	2.35	.00007	.0078	.00025
%RSD	.95579	.72445	.82142	1.940	.53654
#1	.00444	323.08	.00848	.3949	.04592
#2	.00438	326.40	.00858	.4059	.04557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12470**	**.52408**	**137.28**	**17.188**	**.14049**
Stddev	.00087	.00287	.95	.062	.00401
%RSD	.70046	.54741	.69267	.36237	2.8509
#1	.12408	.52205	137.95	17.144	.13766
#2	.12532	.52611	136.61	17.232	.14333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-19-A Acquired: 10/9/2023 20:16:24 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.679**	**3.4775**	**.00782**	**1.2065**	**.12890**
Stddev	.218	.0025	.00011	.0064	.00018
%RSD	.33647	.07134	1.4564	.52939	.14031
#1	64.525	3.4758	.00790	1.2020	.12903
#2	64.833	3.4793	.00773	1.2110	.12878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.03**	**.93955**	**1.4616**	**-.00730**	**-.00430**
Stddev	.01	.00529	.0081	.00142	.00300
%RSD	.0241	.56348	.55253	19.513	69.646
#1	27.04	.94330	1.4673	-.00830	-.00642
#2	27.03	.93581	1.4559	-.00629	-.00218
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3783**	**.08006**	**.42065**	**1.074**	**2.2320**
Stddev	.1173	.00010	.00135	.005	.0100
%RSD	2.1806	.12546	.32042	.4867	.44760
#1	5.4612	.07999	.41969	1.070	2.2249
#2	5.2953	.08013	.42160	1.077	2.2390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-19-A Acquired: 10/9/2023 20:16:24 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00281**	**.19572**	**.81714**	**1.021**
Stddev	.00109	.00092	.00081	.001
%RSD	38.746	.47063	.09954	.0812
#1	-.00204	.19507	.81657	1.022
#2	-.00358	.19637	.81772	1.020
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4986.4**	**7807.5**	**35957.**	**96836.**
Stddev	6.9	7.4	4.	518.
%RSD	.13805	.09431	.01213	.53474
#1	4981.6	7802.3	35961.	96470.
#2	4991.3	7812.7	35954.	97202.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.818%	110.50%	122.50%	108.61%
Range				

Sample Name: 480-213382-A-20-A Acquired: 10/9/2023 20:19:56 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00165**	**130.63**	**.05635**	**.13507**	**.77204**
Stddev	.00057	.29	.00144	.00033	.00360
%RSD	34.491	.22531	2.5496	.24107	.46671
#1	-.00125	130.84	.05534	.13530	.77459
#2	-.00205	130.42	.05737	.13484	.76949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00561**	**281.64**	**.00791**	**.4058**	**.06554**
Stddev	.00006	.50	.00021	.0222	.00009
%RSD	1.0244	.17629	2.6866	5.470	.13237
#1	.00557	281.29	.00776	.4215	.06560
#2	.00566	281.99	.00806	.3901	.06548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13474**	**.16351**	**141.32**	**21.954**	**.14678**
Stddev	.00072	.00176	.02	.145	.00319
%RSD	.53096	1.0772	.01124	.65846	2.1735
#1	.13525	.16226	141.33	21.852	.14453
#2	.13424	.16475	141.31	22.056	.14904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-20-A Acquired: 10/9/2023 20:19:56 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.845**	**5.4277**	**.00433**	**1.2488**	**.14200**
Stddev	.053	.0169	.00018	.0145	.00067
%RSD	.14478	.31170	4.1519	1.1577	.47327
#1	36.807	5.4157	.00445	1.2385	.14247
#2	36.883	5.4396	.00420	1.2590	.14152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.57**	**.54072**	**1.5105**	**-.01041**	**.00041**
Stddev	.00	.00147	.0008	.00101	.00025
%RSD	.0035	.27180	.05594	9.6583	62.353
#1	27.57	.53968	1.5111	-.01112	.00023
#2	27.57	.54176	1.5099	-.00970	.00059
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1633**	**.05998**	**.34147**	**1.070**	**2.2445**
Stddev	.1101	.00029	.00190	.001	.0057
%RSD	2.6438	.48230	.55658	.0486	.25262
#1	4.2412	.06018	.34013	1.071	2.2405
#2	4.0855	.05978	.34281	1.070	2.2485
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-20-A Acquired: 10/9/2023 20:19:56 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00316**	**.24136**	**.54846**	**1.021**
Stddev	.00068	.00017	.00083	.001
%RSD	21.524	.07225	.15059	.0498
#1	-.00364	.24148	.54904	1.021
#2	-.00268	.24123	.54788	1.022
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5034.3**	**8009.6**	**36630.**	**98546.**
Stddev	9.6	13.7	102.	590.
%RSD	.19149	.17132	.27870	.59877
#1	5041.1	8019.3	36702.	98128.
#2	5027.4	7999.9	36558.	98963.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.650%	113.36%	124.79%	110.52%
Range				

Sample Name: rinse Acquired: 10/9/2023 20:23:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.09400**	**.00055**	**-.00046**	**.00004**
Stddev	.00042	.01880	.00024	.00018	.00005
%RSD	72.601	19.998	43.059	39.250	133.31
#1	-.00028	.08071	.00072	-.00059	.00000
#2	-.00087	.10729	.00038	-.00033	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.17369**	**-.00019**	**-.0407**	**-.00040**
Stddev	.00009	.00542	.00069	.0099	.00003
%RSD	50.233	3.1228	368.07	24.29	8.4194
#1	-.00023	.16985	-.00068	-.0337	-.00037
#2	-.00011	.17752	.00030	-.0477	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00145**	**-.00009**	**.03193**	**.04220**	**-.00155**
Stddev	.00014	.00085	.00752	.00937	.00123
%RSD	9.9405	985.89	23.549	22.212	79.247
#1	.00135	.00052	.03725	.03558	-.00242
#2	.00155	-.00069	.02662	.04883	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 20:23:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01779**	**.00098**	**-.00054**	**-.02493**	**.00158**
Stddev	.00023	.00001	.00027	.01528	.00039
%RSD	1.2829	.54339	50.148	61.309	24.527
#1	.01795	.00098	-.00073	-.01412	.00130
#2	.01763	.00098	-.00035	-.03574	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00043**	**-.00020**	**.00035**	**-.00014**
Stddev	.00	.00027	.00161	.00067	.00098
%RSD	.0026	63.456	788.77	189.39	693.07
#1	25.00	-.00063	.00094	-.00012	-.00084
#2	25.00	-.00024	-.00135	.00082	.00055
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**-.00007**	**.00000**	**.9987**	**.00198**
Stddev	.00155	.00017	.00004	.0067	.00022
%RSD	174.23	235.24	979.81	.6719	11.209
#1	-.00021	.00005	.00003	.9940	.00183
#2	.00199	-.00020	-.00002	1.003	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 20:23:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00119**	**-.00006**	**.00640**	**.9987**
Stddev	.00105	.00035	.00014	.0005
%RSD	88.232	557.16	2.2314	.0482
#1	-.00194	-.00031	.00651	.9991
#2	-.00045	.00018	.00630	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5511.8**	**6890.9**	**31592.**	**85681.**
Stddev	.4	2.5	371.	64.
%RSD	.00761	.03660	1.1741	.07465
#1	5512.1	6892.6	31854.	85726.
#2	5511.5	6889.1	31329.	85636.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.965%	97.526%	107.63%	96.096%
Range				

Sample Name: MB 480-686380/1-A Acquired: 10/9/2023 20:26:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.03605**	**-.00018**	**.00173**	**-.00017**
Stddev	.00044	.01799	.00054	.00007	.00001
%RSD	389.66	49.901	296.89	4.1938	4.8797
#1	.00020	-.02333	-.00056	.00178	-.00017
#2	-.00042	-.04878	.00020	.00167	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.12625**	**.00005**	**-.0013**	**-.00048**
Stddev	.00001	.06385	.00011	.0858	.00012
%RSD	4.2563	50.572	212.53	6452.	24.195
#1	-.00020	.17140	-.00003	.0593	-.00057
#2	-.00019	.08111	.00013	-.0620	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**.00020**	**.01926**	**.05401**	**-.00149**
Stddev	.00005	.00007	.00708	.01129	.00281
%RSD	3.4505	34.619	36.769	20.899	188.14
#1	.00154	.00025	.02427	.06199	.00049
#2	.00147	.00015	.01425	.04603	-.00348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-686380/1-A Acquired: 10/9/2023 20:26:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**.00056**	**-.00061**	**.00107**	**.00175**
Stddev	.00114	.00004	.00002	.00890	.00012
%RSD	78.127	6.7451	3.3528	835.44	6.7467
#1	-.00065	.00053	-.00062	.00736	.00183
#2	-.00226	.00058	-.00059	-.00523	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00008**	**.02243**	**-.00026**	**-.00266**
Stddev	.00	.00065	.00093	.00127	.00091
%RSD	.0027	836.15	4.1616	485.31	34.122
#1	25.02	-.00053	.02309	.00064	-.00330
#2	25.02	.00038	.02177	-.00116	-.00201
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20784**	F **.04907**	**-.00002**	**1.002**	**.00084**
Stddev	.00982	.00022	.00001	.003	.00002
%RSD	4.7262	.44399	38.749	.2455	2.8419
#1	.20090	.04891	-.00003	1.004	.00082
#2	.21479	.04922	-.00001	1.001	.00086
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: MB 480-686380/1-A Acquired: 10/9/2023 20:26:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00194**	**-.00019**	**.00112**	**1.001**
Stddev	.00004	.00015	.00009	.000
%RSD	1.9510	80.034	7.8199	.0264
#1	-.00197	-.00008	.00118	1.001
#2	-.00191	-.00030	.00106	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5534.0**	**6941.4**	**31544.**	**86080.**
Stddev	10.0	22.9	24.	144.
%RSD	.18029	.32943	.07690	.16686
#1	5526.9	6925.2	31527.	85979.
#2	5541.0	6957.6	31562.	86182.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.350%	98.241%	107.47%	96.543%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 20:30:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93231**	**49.852**	**1.0979**	**1.0850**	**.96911**
Stddev	.00558	1.044	.0928	.0930	.01474
%RSD	.59804	2.0934	8.4543	8.5733	1.5205
#1	.92836	49.114	1.0323	1.0192	.95869
#2	.93625	50.590	1.1636	1.1508	.97953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98417**	**48.272**	F **1.1658**	**.9804**	F **1.1035**
Stddev	.01379	.776	.0933	.0173	.0976
%RSD	1.4015	1.6068	8.0044	1.765	8.8485
#1	.97442	47.724	1.0998	.9927	1.0344
#2	.99392	48.821	1.2318	.9682	1.1725
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Fail
Value			1.0000		1.0000
Range			10.000%		10.000%

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.90499**	**.91968**	**48.454**	**49.712**	**.97023**
Stddev	.01117	.01118	.794	.408	.01144
%RSD	1.2348	1.2153	1.6387	.82157	1.1795
#1	.89708	.91177	47.893	49.424	.96214
#2	.91289	.92758	49.016	50.001	.97832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 20:30:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.097**	**.93305**	**1.0729**	**49.673**	F **1.1048**
Stddev	.434	.00991	.0920	.668	.0978
%RSD	.90150	1.0626	8.5755	1.3439	8.8519
#1	47.790	.92604	1.0078	49.201	1.0356
#2	48.404	.94006	1.1379	50.145	1.1739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					10.000%

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.69**	**1.1000**	**25.963**	F **1.1030**	**1.0929**
Stddev	1.16	.0961	2.348	.0964	.0930
%RSD	2.988	8.7410	9.0445	8.7446	8.5119
#1	37.87	1.0320	24.303	1.0348	1.0271
#2	39.51	1.1680	27.624	1.1712	1.1586
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				1.0000	
Range				10.000%	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.038**	**1.0844**	**.99014**	**1.492**	**.92798**
Stddev	.114	.0972	.01371	.008	.01013
%RSD	1.1386	8.9668	1.3849	.5557	1.0911
#1	9.9568	1.0157	.98044	1.486	.92082
#2	10.118	1.1532	.99983	1.498	.93514
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 20:30:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0809**	**.93227**	**.95584**	**1.484**
Stddev	.0928	.01227	.00654	.008
%RSD	8.5892	1.3166	.68428	.5274
#1	1.0152	.92359	.95121	1.478
#2	1.1465	.94095	.96046	1.489
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4883.8**	**6340.1**	**30478.**	**82593.**
Stddev	346.9	438.2	210.	81.
%RSD	7.1024	6.9114	.68739	.09775
#1	5129.1	6649.9	30626.	82536.
#2	4638.6	6030.2	30330.	82650.

Sample Name: CCB-7506043 Acquired: 10/9/2023 20:33:29 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00773**	**-.00045**	**-.00023**	**-.00010**
Stddev	.00023	.00128	.00068	.00022	.00004
%RSD	6315.8	16.563	150.51	97.163	38.981
#1	.00016	.00682	.00003	-.00038	-.00012
#2	-.00016	.00863	-.00093	-.00007	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.19899**	**.00025**	**.0213**	**-.00018**
Stddev	.00006	.09215	.00060	.0063	.00022
%RSD	113.28	46.311	244.56	29.73	117.46
#1	-.00001	.13382	.00067	.0258	-.00034
#2	-.00009	.26415	-.00018	.0168	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00048**	**.03111**	**.12373**	**-.00397**
Stddev	.00014	.00053	.01001	.01806	.00076
%RSD	22.762	110.63	32.168	14.597	19.077
#1	.00051	.00010	.02403	.11096	-.00451
#2	.00070	.00085	.03819	.13650	-.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 20:33:29 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00670**	**.00051**	**.00130**	**-.01936**	**.00099**
Stddev	.00097	.00002	.00047	.00258	.00010
%RSD	14.510	3.1859	35.873	13.310	9.9228
#1	.00601	.00050	.00097	-.02118	.00106
#2	.00738	.00052	.00163	-.01753	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00012**	**.00386**	**-.00028**	**.00393**
Stddev	.00	.00015	.00237	.00211	.00221
%RSD	.0012	129.94	61.439	756.42	56.211
#1	25.00	.00001	.00554	.00121	.00237
#2	25.00	.00022	.00218	-.00177	.00550
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**.00003**	**.00010**	**.9994**	**.00073**
Stddev	.01844	.00021	.00031	.0005	.00006
%RSD	816.45	632.63	292.95	.0532	8.5249
#1	.01529	-.00012	-.00011	.9990	.00069
#2	-.01078	.00018	.00032	.9998	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 20:33:29 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00002**	**-.00031**	**.9998**
Stddev	.00013	.00009	.00022	.0004
%RSD	461.97	489.89	70.757	.0407
#1	-.00012	-.00009	-.00046	1.000
#2	.00007	.00005	-.00015	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5741.5**	**7180.8**	**32524.**	**88598.**
Stddev	4.6	7.3	325.	267.
%RSD	.07931	.10138	1.0005	.30146
#1	5744.7	7185.9	32754.	88409.
#2	5738.3	7175.6	32294.	88786.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 20:36:53 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00524**	**.17254**	**.01451**	**.01899**	**.00166**
Stddev	.00029	.00983	.00062	.00046	.00003
%RSD	5.4468	5.6956	4.2838	2.4163	1.5685
#1	.00544	.16559	.01495	.01932	.00168
#2	.00503	.17949	.01407	.01867	.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.59404**	**.00202**	**-.0157**	**.00354**
Stddev	.00006	.00093	.00083	.0503	.00005
%RSD	3.8102	.15578	40.889	320.0	1.5337
#1	.00163	.59338	.00260	-.0513	.00350
#2	.00172	.59469	.00144	.0199	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00340**	**.00914**	**.05680**	**.54787**	**.02968**
Stddev	.00025	.00049	.00227	.01765	.00398
%RSD	7.2838	5.3743	3.9923	3.2225	13.412
#1	.00323	.00949	.05841	.53539	.03249
#2	.00358	.00879	.05520	.56035	.02686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/9/2023 20:36:53 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18304**	**.00265**	**.00948**	**1.0116**	**.01009**
Stddev	.00343	.00001	.00011	.0193	.00006
%RSD	1.8733	.36295	1.1546	1.9069	.62336
#1	.18061	.00265	.00955	.99797	.01013
#2	.18546	.00266	.00940	1.0253	.01005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01011**	**.19727**	**.02170**	**.02238**
Stddev	.00	.00041	.00085	.00314	.00108
%RSD	.0010	4.0299	.42996	14.483	4.8350
#1	25.00	.01040	.19667	.02392	.02315
#2	25.00	.00982	.19787	.01948	.02162
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49428**	**.00947**	**.00474**	F **.9985**	**.00472**
Stddev	.00332	.00039	.00013	.0028	.00008
%RSD	.67251	4.1530	2.7823	.2849	1.6721
#1	.49193	.00975	.00465	1.001	.00478
#2	.49663	.00919	.00483	.9965	.00466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 20:36:53 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.01793	.00407	.00901	F 1.000
Stddev	.00044	.00024	.00006	.001
%RSD	2.4370	5.9025	.70159	.0676
#1	.01824	.00424	.00905	1.001
#2	.01762	.00390	.00897	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5564.7	6983.8	32258.	87250.
Stddev	4.4	9.7	301.	134.
%RSD	.07890	.13843	.93162	.15316
#1	5561.6	6977.0	32470.	87155.
#2	5567.8	6990.6	32045.	87344.

Sample Name: LCSSRM 480-686380/2- Acquired: 10/9/2023 20:40:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40965**	**117.92**	**1.7540**	**2.4855**	**3.3742**
Stddev	.00332	.14	.0026	.0059	.0059
%RSD	.81119	.11550	.15074	.23731	.17517
#1	.41200	118.02	1.7559	2.4896	3.3783
#2	.40731	117.83	1.7522	2.4813	3.3700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5188**	**50.971**	**1.0886**	**.6274**	**1.7747**
Stddev	.0015	.239	.0026	.0144	.0032
%RSD	.10145	.46901	.23821	2.295	.17963
#1	1.5199	50.802	1.0904	.6173	1.7770
#2	1.5177	51.140	1.0868	.6376	1.7725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0692**	**1.0803**	**85.770**	**21.856**	**1.2029**
Stddev	.0182	.0041	.226	.048	.0003
%RSD	.88058	.37948	.26333	.22079	.02526
#1	2.0821	1.0832	85.610	21.890	1.2027
#2	2.0563	1.0774	85.929	21.822	1.2031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-686380/2- Acquired: 10/9/2023 20:40:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.203**	**3.6184**	**.50942**	**4.7912**	**1.1528**
Stddev	.119	.0243	.00249	.0029	.0007
%RSD	.53754	.67214	.48807	.06007	.05786
#1	22.288	3.6012	.51118	4.7932	1.1532
#2	22.119	3.6356	.50766	4.7891	1.1523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.16**	**1.5580**	**.57534**	**1.1402**	**.90819**
Stddev	.00	.0015	.00038	.0028	.00518
%RSD	.0060	.09905	.06579	.24388	.57067
#1	26.16	1.5591	.57560	1.1421	.90452
#2	26.16	1.5569	.57507	1.1382	.91185
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5394**	**1.0188**	**2.1856**	**1.086**	**4.0466**
Stddev	.0234	.0016	.0028	.002	.0195
%RSD	.91970	.16120	.12726	.1582	.48203
#1	2.5560	1.0177	2.1876	1.087	4.0604
#2	2.5229	1.0200	2.1836	1.084	4.0328
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-686380/2- Acquired: 10/9/2023 20:40:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.8232**	**1.1293**	**3.2674**	**1.049**
Stddev	.0058	.0072	.0216	.001
%RSD	.31586	.63780	.66174	.0649
#1	1.8192	1.1344	3.2827	1.050
#2	1.8273	1.1242	3.2521	1.049
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5214.9**	**7349.1**	**33628.**	**90567.**
Stddev	13.0	20.1	224.	637.
%RSD	.24879	.27350	.66498	.70344
#1	5224.1	7363.3	33470.	90117.
#2	5205.8	7334.9	33786.	91018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.796%	104.01%	114.57%	101.58%
Range				

Sample Name: 480-213382-A-21-A Acquired: 10/9/2023 20:43:36 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00109**	**65.411**	**.02864**	**.09986**	**.33700**
Stddev	.00070	.343	.00126	.00002	.00401
%RSD	64.197	.52494	4.3834	.02423	1.1909
#1	-.00059	65.168	.02775	.09985	.33984
#2	-.00158	65.654	.02953	.09988	.33416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00262**	F **1251.1**	**.00399**	**.2973**	**.02356**
Stddev	.00006	12.5	.00062	.0183	.00000
%RSD	2.4388	1.0005	15.549	6.152	.00908
#1	.00266	1242.2	.00443	.3102	.02356
#2	.00257	1259.9	.00355	.2844	.02356
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07015**	**.12592**	**74.891**	**15.124**	**.12932**
Stddev	.00053	.00129	.669	.059	.00067
%RSD	.75031	1.0241	.89283	.39065	.51754
#1	.07052	.12683	74.418	15.082	.12980
#2	.06978	.12501	75.364	15.165	.12885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-21-A Acquired: 10/9/2023 20:43:36 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.277**	**1.7690**	**.00297**	**1.7920**	**.05994**
Stddev	.804	.0190	.00018	.0043	.00025
%RSD	1.0402	1.0740	6.0989	.23736	.41640
#1	77.845	1.7825	.00309	1.7950	.06012
#2	76.708	1.7556	.00284	1.7890	.05976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.01**	**.18737**	**1.1475**	**-.00019**	**-.00496**
Stddev	.00	.00162	.0005	.00283	.00219
%RSD	.0182	.86418	.04572	1473.9	44.151
#1	27.01	.18623	1.1479	-.00219	-.00651
#2	27.01	.18852	1.1471	.00181	-.00341
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1107**	**.04676**	**.92171**	**1.040**	**1.5463**
Stddev	.0356	.00105	.00351	.001	.0205
%RSD	.86570	2.2499	.38095	.0923	1.3245
#1	4.1358	.04602	.91923	1.039	1.5608
#2	4.0855	.04751	.92420	1.041	1.5319
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-21-A Acquired: 10/9/2023 20:43:36 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00112**	**.12666**	**.22347**	**1.030**
Stddev	.00085	.00039	.00169	.001
%RSD	75.988	.30738	.75713	.0455
#1	.00172	.12694	.22466	1.029
#2	.00052	.12639	.22227	1.030
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4656.9**	**7156.8**	**33281.**	**88519.**
Stddev	7.1	10.3	415.	82.
%RSD	.15234	.14453	1.2455	.09316
#1	4661.9	7164.1	32988.	88461.
#2	4651.9	7149.4	33574.	88578.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.080%	101.29%	113.39%	99.279%
Range				

Sample Name: 213382-A-21-ASD@5 Acquired: 10/9/2023 20:47:01 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**13.494**	**.00637**	**.02213**	**.07638**
Stddev	.00029	.376	.00097	.00105	.00030
%RSD	116.54	2.7889	15.244	4.7368	.39273
#1	-.00046	13.227	.00569	.02139	.07617
#2	-.00004	13.760	.00706	.02287	.07659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**279.10**	**.00050**	**.0829**	**.00430**
Stddev	.00023	10.52	.00032	.0282	.00026
%RSD	80.106	3.7695	63.735	34.04	5.9472
#1	.00012	271.66	.00073	.0630	.00448
#2	.00044	286.54	.00028	.1029	.00412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01631**	**.02775**	**16.663**	**3.1399**	**.02572**
Stddev	.00043	.00010	.440	.0218	.00267
%RSD	2.6300	.35745	2.6409	.69535	10.379
#1	.01661	.02768	16.352	3.1245	.02383
#2	.01601	.02782	16.974	3.1554	.02760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 213382-A-21-ASD@5 Acquired: 10/9/2023 20:47:01 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.983**	**.41039**	**-.00002**	**.36143**	**.01174**
Stddev	.071	.00148	.00023	.03199	.00023
%RSD	.39238	.35975	1083.3	8.8523	1.9773
#1	17.933	.40934	-.00019	.33880	.01190
#2	18.033	.41143	.00014	.38405	.01157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.44**	**.03685**	**.24469**	**-.00065**	**-.00135**
Stddev	.00	.00030	.00126	.00183	.00026
%RSD	.0066	.80125	.51562	280.38	19.473
#1	25.44	.03706	.24558	-.00194	-.00154
#2	25.44	.03664	.24379	.00064	-.00117
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75756**	**.00860**	**.19367**	**1.011**	**.35424**
Stddev	.02773	.00023	.00451	.001	.00028
%RSD	3.6605	2.6427	2.3297	.0480	.07965
#1	.73795	.00844	.19048	1.012	.35404
#2	.77717	.00876	.19686	1.011	.35444
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 213382-A-21-ASD@5 Acquired: 10/9/2023 20:47:01 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00112**	**.02826**	**.05265**	**1.007**
Stddev	.00047	.00075	.00026	.000
%RSD	41.825	2.6590	.49898	.0435
#1	.00145	.02773	.05247	1.007
#2	.00079	.02879	.05284	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5214.2**	**6885.1**	**31471.**	**85696.**
Stddev	9.3	15.6	139.	334.
%RSD	.17830	.22694	.44027	.39031
#1	5207.7	6874.0	31569.	85932.
#2	5220.8	6896.1	31373.	85459.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.784%	97.444%	107.22%	96.112%
Range				

Sample Name: 480-213382-A-21-APDS Acquired: 10/9/2023 20:50:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07977**	**81.316**	**.41674**	**.46105**	**.71775**
Stddev	.00077	.987	.00610	.00152	.01007
%RSD	.96676	1.2141	1.4633	.33036	1.4025
#1	.07923	80.618	.42106	.46213	.71063
#2	.08032	82.014	.41243	.45998	.72487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
IS Ref	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.67196**	**.40641**	F **1180.3**	**.41755**	**.2762**
Stddev	.00187	.00566	7.6	.00020	.0614
%RSD	.27817	1.3919	.64042	.04819	22.23
#1	.67064	.40241	1175.0	.41769	.3196
#2	.67328	.41041	1185.6	.41741	.2328
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			900.00		
Low Limit			-.50000		

Elem	Co2286	Cr2677	Cu3273	Fe2714	K_7664
Line	228.616 {447}	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46189**	**.38950**	**.46661**	**88.539**	**34.646**
Stddev	.00270	.00275	.00096	1.045	.411
%RSD	.58397	.70511	.20539	1.1808	1.1869
#1	.46380	.38756	.46593	87.800	34.355
#2	.45998	.39145	.46729	89.278	34.937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-21-APDS Acquired: 10/9/2023 20:50:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51069**	**88.546**	**1.9917**	**.36808**	**21.910**
Stddev	.00539	.482	.0087	.00262	.243
%RSD	1.0558	.54478	.43571	.71286	1.1094
#1	.50688	88.204	1.9978	.36993	21.738
#2	.51451	88.887	1.9855	.36622	22.082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Line	231.604 {446}	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}
IS Ref	(In2306)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48050**	**26.89**	**.60705**	**19.598**	**.41620**
Stddev	.00264	.01	.00221	.114	.00109
%RSD	.54889	.0428	.36426	.57930	.26146
#1	.48237	26.89	.60861	19.679	.41543
#2	.47864	26.88	.60548	19.518	.41697
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37368**	**24.564**	**.45922**	**1.2542**	**1.048**
Stddev	.00626	.178	.00129	.0156	.001
%RSD	1.6744	.72551	.28088	1.2422	.1351
#1	.37810	24.437	.46013	1.2432	1.049
#2	.36925	24.690	.45831	1.2652	1.047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: 480-213382-A-21-APDS Acquired: 10/9/2023 20:50:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	TI1908	V_2924	Zn2062	Zr3438
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8165**	**.42139**	**.46068**	**.53220**	**1.030**
Stddev	.0055	.00196	.00310	.00609	.000
%RSD	.30013	.46563	.67378	1.1446	.0206
#1	1.8127	.42278	.45848	.52790	1.030
#2	1.8204	.42000	.46287	.53651	1.030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4594.2**	**7015.2**	**32744.**	**87640.**
Stddev	1.5	.2	87.	216.
%RSD	.03293	.00242	.26436	.24606
#1	4593.1	7015.0	32805.	87792.
#2	4595.2	7015.3	32682.	87487.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.988%	99.285%	111.55%	98.292%
Range				

Sample Name: 480-213382-A-21-B MS Acquired: 10/9/2023 20:53:56 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08237**	**115.90**	**.40656**	**.50172**	**.86652**
Stddev	.00003	.38	.00311	.00053	.00016
%RSD	.03307	.33067	.76403	.10621	.01827
#1	.08235	115.63	.40876	.50134	.86641
#2	.08239	116.17	.40437	.50209	.86663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39495**	F **1249.5**	**.40126**	**.3156**	**.46314**
Stddev	.00229	12.5	.00031	.0331	.00117
%RSD	.57926	1.0019	.07684	10.48	.25305
#1	.39333	1240.6	.40148	.2923	.46396
#2	.39657	1258.3	.40105	.3390	.46231
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41175**	**.47547**	**108.98**	**45.661**	**.52481**
Stddev	.00306	.00204	.31	.161	.00316
%RSD	.74332	.42860	.28862	.35212	.60136
#1	.40959	.47402	108.76	45.547	.52258
#2	.41391	.47691	109.20	45.775	.52704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-21-B MS Acquired: 10/9/2023 20:53:56 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**82.721**	**2.2286**	**.35305**	**22.897**	**.48731**
Stddev	.342	.0211	.00176	.088	.00065
%RSD	.41398	.94738	.49821	.38400	.13299
#1	82.479	2.2137	.35430	22.835	.48777
#2	82.963	2.2435	.35181	22.959	.48685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.87**	**.61090**	**19.071**	**.33490**	**.35823**
Stddev	.00	.00055	.046	.00556	.00011
%RSD	.0056	.08940	.24325	1.6602	.03125
#1	26.87	.61052	19.104	.33883	.35831
#2	26.87	.61129	19.038	.33097	.35815
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7901**	**.46391**	**1.2909**	**1.056**	**2.8242**
Stddev	.0744	.00104	.0066	.005	.0122
%RSD	1.2854	.22377	.50766	.4484	.43194
#1	5.7375	.46318	1.2863	1.052	2.8156
#2	5.8428	.46465	1.2955	1.059	2.8328
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-21-B MS Acquired: 10/9/2023 20:53:56 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.41010**	**.51176**	**.55238**	**1.083**
Stddev	.00142	.00227	.00381	.001
%RSD	.34515	.44317	.69054	.0416
#1	.41110	.51016	.54968	1.083
#2	.40910	.51336	.55508	1.084
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4551.1**	**7149.2**	**32745.**	**88238.**
Stddev	.1	5.6	191.	107.
%RSD	.00275	.07794	.58234	.12115
#1	4551.2	7153.2	32880.	88314.
#2	4551.0	7145.3	32610.	88163.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.237%	101.18%	111.56%	98.964%
Range				

Sample Name: 480-213382-A-21-C MS Acquired: 10/9/2023 20:57:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08334**	**104.24**	**.40139**	**.49085**	**.81453**
Stddev	.00067	.21	.00213	.00044	.00155
%RSD	.80823	.19808	.52986	.08939	.19089
#1	.08287	104.10	.40289	.49054	.81343
#2	.08382	104.39	.39988	.49116	.81563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39911**	F **1425.0**	**.39872**	**.2419**	**.45440**
Stddev	.00161	4.5	.00186	.0557	.00290
%RSD	.40325	.31873	.46727	23.02	.63736
#1	.39798	1421.8	.40003	.2025	.45645
#2	.40025	1428.2	.39740	.2813	.45235
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40565**	**.45482**	**95.488**	**43.355**	**.53075**
Stddev	.00593	.00601	.494	.269	.00248
%RSD	1.4619	1.3224	.51701	.62065	.46799
#1	.40145	.45057	95.139	43.164	.52900
#2	.40984	.45907	95.837	43.545	.53251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-21-C MS Acquired: 10/9/2023 20:57:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.273**	**2.3437**	**.35586**	**22.959**	**.47404**
Stddev	1.470	.0153	.00165	.069	.00269
%RSD	1.6850	.65305	.46423	.29946	.56817
#1	86.233	2.3328	.35702	22.910	.47595
#2	88.313	2.3545	.35469	23.007	.47214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.70**	**.58413**	**19.467**	**.34861**	**.35696**
Stddev	.00	.00049	.076	.00153	.00375
%RSD	.0115	.08363	.39084	.43777	1.0509
#1	26.71	.58447	19.521	.34753	.35962
#2	26.70	.58378	19.413	.34969	.35431
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1949**	**.46015**	**1.5957**	**1.050**	**2.5922**
Stddev	.0424	.00370	.0077	.002	.0346
%RSD	.58877	.80495	.48376	.1892	1.3345
#1	7.1650	.46277	1.5902	1.051	2.5677
#2	7.2249	.45753	1.6011	1.049	2.6167
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-21-C MS Acquired: 10/9/2023 20:57:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.40662**	**.48790**	**.50919**	**1.078**
Stddev	.00057	.00632	.00514	.001
%RSD	.14069	1.2949	1.0097	.0768
#1	.40702	.48343	.50556	1.077
#2	.40621	.49237	.51283	1.078
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4485.5**	**6938.3**	**32051.**	**86697.**
Stddev	5.5	27.7	301.	695.
%RSD	.12183	.39995	.93996	.80180
#1	4489.3	6957.9	32264.	86206.
#2	4481.6	6918.6	31838.	87189.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.095%	98.197%	109.20%	97.235%
Range				

Sample Name: 480-213382-A-22-A Acquired: 10/9/2023 21:00:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00116**	**90.205**	**.03467**	**.12584**	**.38970**
Stddev	.00034	.575	.00023	.00012	.00817
%RSD	29.336	.63791	.66393	.09867	2.0972
#1	-.00092	89.799	.03451	.12593	.39548
#2	-.00140	90.612	.03483	.12575	.38392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	F **1011.2**	**.00402**	**.3376**	**.03324**
Stddev	.00009	1.6	.00038	.0491	.00010
%RSD	2.5107	.15532	9.4619	14.53	.29663
#1	.00356	1012.3	.00375	.3029	.03317
#2	.00369	1010.0	.00429	.3723	.03331
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09620**	**.15075**	**98.221**	**18.169**	**.13691**
Stddev	.00080	.00122	.562	.032	.00339
%RSD	.83624	.80838	.57221	.17403	2.4785
#1	.09677	.15161	97.824	18.147	.13451
#2	.09564	.14989	98.619	18.192	.13931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-22-A Acquired: 10/9/2023 21:00:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.392**	**1.6964**	**.00246**	**1.8562**	**.08959**
Stddev	.583	.0222	.00012	.0095	.00038
%RSD	1.2311	1.3104	4.7310	.51125	.42232
#1	47.804	1.7121	.00238	1.8629	.08986
#2	46.979	1.6807	.00255	1.8495	.08932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.40**	**.16253**	**1.2625**	**-.00981**	**-.00821**
Stddev	.00	.00144	.0003	.00107	.00303
%RSD	.0053	.88791	.02405	10.948	36.948
#1	27.40	.16355	1.2627	-.00905	-.00607
#2	27.40	.16151	1.2623	-.01057	-.01036
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0608**	**.05453**	**.80571**	**1.052**	**1.8160**
Stddev	.1397	.00087	.00011	.000	.0235
%RSD	2.7594	1.5885	.01401	.0225	1.2920
#1	5.1595	.05392	.80579	1.052	1.8326
#2	4.9620	.05514	.80563	1.052	1.7994
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-22-A Acquired: 10/9/2023 21:00:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.17014**	**.29736**	**1.031**
Stddev	.00194	.00197	.00352	.000
%RSD	204.36	1.1588	1.1826	.0010
#1	-.00232	.17154	.29985	1.031
#2	.00042	.16875	.29488	1.031
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4674.7**	**7322.0**	**33282.**	**91335.**
Stddev	2.2	16.7	545.	525.
%RSD	.04690	.22772	1.6366	.57483
#1	4673.2	7333.8	32897.	90964.
#2	4676.3	7310.2	33667.	91706.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.390%	103.63%	113.39%	102.44%
Range				

Sample Name: 480-213382-A-23-A Acquired: 10/9/2023 21:04:16 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00249**	**139.13**	**.04479**	**.12274**	**.59828**
Stddev	.00060	.51	.00082	.00008	.00985
%RSD	24.178	.36392	1.8386	.06215	1.6458
#1	-.00291	139.49	.04537	.12280	.59132
#2	-.00206	138.77	.04421	.12269	.60524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00564**	**71.306**	**.00549**	**.5666**	**.05120**
Stddev	.00001	.071	.00025	.0091	.00018
%RSD	.24293	.09900	4.6306	1.614	.36022
#1	.00565	71.356	.00531	.5601	.05134
#2	.00563	71.256	.00566	.5731	.05107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14305**	**.07171**	**127.10**	**16.538**	**.12985**
Stddev	.00361	.00028	.22	.120	.00056
%RSD	2.5244	.38417	.16993	.72716	.43191
#1	.14050	.07152	126.94	16.453	.13025
#2	.14561	.07190	127.25	16.623	.12945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-23-A Acquired: 10/9/2023 21:04:16 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.428**	**2.0106**	**.00259**	**1.0914**	**.12122**
Stddev	.170	.0166	.00016	.0153	.00032
%RSD	.69566	.82436	6.3460	1.4012	.26581
#1	24.307	1.9989	.00270	1.1022	.12145
#2	24.548	2.0224	.00247	1.0805	.12099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.87**	**.43686**	**1.1192**	**-.00897**	**.00024**
Stddev	.00	.00170	.0099	.00086	.00234
%RSD	.0094	.38907	.88334	9.6132	962.76
#1	26.87	.43566	1.1262	-.00836	-.00141
#2	26.87	.43806	1.1123	-.00958	.00190
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4752**	**.05995**	**.13907**	**1.074**	**2.2556**
Stddev	.1186	.00130	.00002	.010	.0247
%RSD	1.8321	2.1617	.01386	.8916	1.0961
#1	6.5591	.06086	.13906	1.080	2.2381
#2	6.3913	.05903	.13909	1.067	2.2731
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-23-A Acquired: 10/9/2023 21:04:16 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00305**	**.23548**	**.41289**	**1.017**
Stddev	.00141	.00232	.00476	.001
%RSD	46.161	.98389	1.1538	.0817
#1	-.00205	.23384	.40953	1.018
#2	-.00404	.23712	.41626	1.016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5169.8**	**8273.4**	**36963.**	**102210.**
Stddev	7.4	4.1	205.	963.
%RSD	.14382	.04963	.55529	.94186
#1	5175.1	8276.3	37108.	101530.
#2	5164.6	8270.5	36818.	102890.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.010%	117.09%	125.93%	114.63%
Range				

Sample Name: 480-213382-A-24-B Acquired: 10/9/2023 21:07:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**56.606**	**.02336**	**.10541**	**.22724**
Stddev	.00039	.276	.00044	.00048	.00062
%RSD	47.410	.48708	1.8844	.45941	.27222
#1	-.00111	56.801	.02304	.10575	.22680
#2	-.00055	56.411	.02367	.10507	.22768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	F **1530.5**	**.00270**	**.2441**	**.02006**
Stddev	.00018	.7	.00059	.0370	.00038
%RSD	7.2527	.04540	21.662	15.14	1.8776
#1	.00265	1531.0	.00312	.2703	.02033
#2	.00239	1530.0	.00229	.2180	.01979
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06522**	**.07891**	**69.935**	**14.723**	**.13545**
Stddev	.00048	.00116	.410	.109	.00070
%RSD	.72866	1.4644	.58649	.74226	.51635
#1	.06488	.07810	70.225	14.800	.13595
#2	.06555	.07973	69.645	14.646	.13496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-24-B Acquired: 10/9/2023 21:07:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.596**	**1.3747**	**.00175**	**1.3920**	**.06003**
Stddev	.034	.0048	.00021	.0137	.00020
%RSD	.06490	.34651	11.787	.98516	.32978
#1	52.572	1.3713	.00189	1.4017	.05989
#2	52.620	1.3781	.00160	1.3823	.06017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.44**	**.10102**	**.77626**	**-.00886**	**-.00784**
Stddev	.00	.00070	.00024	.00070	.00209
%RSD	.0030	.68816	.03119	7.9346	26.595
#1	26.44	.10152	.77609	-.00836	-.00932
#2	26.44	.10053	.77643	-.00936	-.00637
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6920**	**.05017**	**1.0937**	**1.040**	**1.4443**
Stddev	.1170	.00075	.0059	.002	.0012
%RSD	2.4931	1.4857	.54336	.2014	.08037
#1	4.7747	.04965	1.0980	1.042	1.4435
#2	4.6093	.05070	1.0895	1.039	1.4451
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213382-A-24-B Acquired: 10/9/2023 21:07:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00050**	**.11790**	**.15734**	**1.027**
Stddev	.00276	.00121	.00036	.000
%RSD	550.01	1.0232	.22589	.0003
#1	.00245	.11705	.15709	1.027
#2	-.00145	.11875	.15759	1.027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4536.3**	**7003.4**	**31787.**	**87454.**
Stddev	5.9	12.9	34.	656.
%RSD	.12981	.18356	.10711	.74970
#1	4540.5	7012.5	31811.	86991.
#2	4532.2	6994.3	31763.	87918.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.981%	99.118%	108.30%	98.084%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 21:11:03 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94154**	**51.471**	**1.0101**	**.99848**	**.99294**
Stddev	.00288	.204	.0011	.00154	.00093
%RSD	.30626	.39577	.10569	.15439	.09329
#1	.93951	51.327	1.0108	.99957	.99228
#2	.94358	51.615	1.0093	.99739	.99359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0136**	**49.143**	**1.0697**	**.9816**	**1.0169**
Stddev	.0046	.272	.0045	.0432	.0037
%RSD	.45094	.55383	.41873	4.401	.36865
#1	1.0103	48.950	1.0666	.9511	1.0196
#2	1.0168	49.335	1.0729	1.012	1.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91340**	**.92433**	**49.535**	**50.786**	**.99148**
Stddev	.00847	.00651	.238	.045	.00399
%RSD	.92772	.70483	.47997	.08903	.40203
#1	.90741	.91973	49.367	50.818	.98866
#2	.91940	.92894	49.703	50.755	.99430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 21:11:03 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.388**	**.93856**	**.98541**	**50.857**	**1.0174**
Stddev	.357	.00681	.00541	.070	.0033
%RSD	.73751	.72541	.54919	.13779	.32791
#1	48.136	.93375	.98924	50.808	1.0197
#2	48.640	.94338	.98158	50.907	1.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.58**	**1.0146**	**23.874**	**1.0163**	**1.0087**
Stddev	.01	.0022	.102	.0011	.0048
%RSD	.0291	.21988	.42537	.10585	.47528
#1	37.57	1.0162	23.946	1.0155	1.0121
#2	37.59	1.0131	23.802	1.0171	1.0053
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.519**	**.99898**	**1.0177**	**1.502**	**.93674**
Stddev	.057	.00349	.0041	.001	.00884
%RSD	.53835	.34935	.40423	.0872	.94418
#1	10.479	1.0014	1.0148	1.503	.93049
#2	10.559	.99651	1.0206	1.501	.94299
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 21:11:03 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99645**	**.93835**	**.96185**	**1.494**
Stddev	.00384	.00609	.00654	.001
%RSD	.38551	.64903	.68039	.0868
#1	.99917	.93404	.95722	1.493
#2	.99374	.94266	.96647	1.495
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5157.5**	**6711.1**	**30292.**	**81522.**
Stddev	6.2	1.2	35.	486.
%RSD	.11951	.01714	.11683	.59641
#1	5153.1	6711.9	30317.	81179.
#2	5161.8	6710.3	30267.	81866.

Sample Name: CCB-7506043 Acquired: 10/9/2023 21:14:16 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**-.02316**	**.00256**	**.00055**	**-.00011**
Stddev	.00009	.03800	.00081	.00026	.00006
%RSD	9.4461	164.07	31.630	47.664	57.793
#1	-.00085	.00371	.00313	.00074	-.00007
#2	-.00097	-.05003	.00198	.00037	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.26144**	**-.00031**	**.0030**	**-.00014**
Stddev	.00000	.24771	.00027	.0071	.00014
%RSD	3.6702	94.748	86.211	235.7	101.67
#1	-.00007	.43660	-.00012	.0080	-.00004
#2	-.00006	.08628	-.00050	-.0020	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00012**	**.03021**	**.11528**	**-.00095**
Stddev	.00041	.00003	.04152	.02864	.00065
%RSD	84.352	27.264	137.44	24.845	68.661
#1	.00078	-.00015	.05957	.13553	-.00142
#2	.00020	-.00010	.00085	.09503	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 21:14:16 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00420**	**.00027**	**.00124**	**-.01494**	**.00078**
Stddev	.00137	.00022	.00024	.01593	.00082
%RSD	32.611	83.503	19.179	106.65	105.74
#1	.00516	.00043	.00107	-.00367	.00136
#2	.00323	.00011	.00141	-.02621	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00025**	**.00780**	**.00108**	**.00224**
Stddev	.00	.00046	.00463	.00330	.00006
%RSD	.0032	183.17	59.371	306.19	2.8725
#1	25.00	-.00058	.01108	-.00125	.00220
#2	25.00	.00007	.00453	.00341	.00229
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01010**	**-.00049**	**.00007**	**1.001**	**.00057**
Stddev	.00030	.00009	.00038	.002	.00019
%RSD	3.0089	19.221	573.26	.2401	33.498
#1	-.00988	-.00055	.00033	1.002	.00071
#2	-.01031	-.00042	-.00020	.9988	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 21:14:16 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00028**	**-.00040**	**1.000**
Stddev	.00186	.00013	.00006	.000
%RSD	894.00	47.917	15.548	.0010
#1	.00111	-.00018	-.00044	1.000
#2	-.00153	-.00037	-.00036	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5747.1**	**7179.3**	**32611.**	**88359.**
Stddev	2.8	7.9	236.	395.
%RSD	.04912	.10979	.72453	.44729
#1	5749.1	7184.8	32444.	88080.
#2	5745.1	7173.7	32778.	88639.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 21:17:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.19130**	**.01491**	**.01947**	**.00177**
Stddev	.00042	.01862	.00020	.00022	.00003
%RSD	8.6270	9.7308	1.3449	1.1553	1.8302
#1	.00514	.17814	.01477	.01931	.00175
#2	.00454	.20447	.01505	.01963	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.60511**	**.00254**	**-.0135**	**.00382**
Stddev	.00011	.04418	.00028	.0232	.00002
%RSD	6.5720	7.3013	11.046	172.2	.61242
#1	.00162	.57387	.00235	.0029	.00384
#2	.00178	.63635	.00274	-.0299	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**.00844**	**.05313**	**.54942**	**.03133**
Stddev	.00047	.00073	.00486	.00794	.00258
%RSD	11.825	8.6751	9.1489	1.4456	8.2382
#1	.00364	.00792	.04969	.54380	.02951
#2	.00430	.00896	.05657	.55503	.03316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/9/2023 21:17:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18819**	**.00303**	**.00985**	**1.0126**	**.01096**
Stddev	.00279	.00005	.00006	.0188	.00020
%RSD	1.4846	1.5109	.65465	1.8581	1.8388
#1	.18622	.00300	.00989	.99926	.01081
#2	.19017	.00307	.00980	1.0259	.01110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00890**	**.19669**	**.02163**	**.02385**
Stddev	.00	.00060	.00065	.00071	.00065
%RSD	.0019	6.6968	.33008	3.2724	2.7416
#1	25.00	.00932	.19623	.02213	.02339
#2	25.00	.00848	.19715	.02113	.02431
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47525**	**.00939**	**.00481**	F **1.008**	**.00476**
Stddev	.02907	.00005	.00015	.000	.00004
%RSD	6.1176	.56339	3.0495	.0353	.80617
#1	.45469	.00935	.00471	1.009	.00478
#2	.49581	.00943	.00492	1.008	.00473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 21:17:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01947**	**.00456**	**.00933**	F **.9995**
Stddev	.00131	.00031	.00004	.0006
%RSD	6.7549	6.8521	.47535	.0632
#1	.01854	.00434	.00930	.9990
#2	.02040	.00478	.00936	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5543.3**	**6958.9**	**31970.**	**86386.**
Stddev	2.8	1.6	167.	322.
%RSD	.05012	.02300	.52328	.37227
#1	5541.3	6957.8	32088.	86614.
#2	5545.3	6960.0	31851.	86159.

Sample Name: 480-213386-C-1-A Acquired: 10/9/2023 21:21:04 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00141**	**96.496**	**.03952**	**.14365**	**.71611**
Stddev	.00015	.440	.00329	.00026	.00133
%RSD	10.675	.45592	8.3163	.18097	.18588
#1	-.00130	96.185	.04185	.14383	.71517
#2	-.00151	96.807	.03720	.14346	.71705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
IS Ref	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.68214**	**.00360**	**761.36**	**.00355**	**.1662**
Stddev	.00075	.00008	1.92	.00017	.0390
%RSD	.11046	2.2658	.25193	4.6804	23.47
#1	.68161	.00366	762.72	.00343	.1938
#2	.68268	.00355	760.01	.00367	.1387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Co2286	Cr2677	Cu3273	Fe2714	K_7664
Line	228.616 {447}	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04846**	**.11602**	**.12041**	**97.726**	**23.964**
Stddev	.00046	.00104	.00038	.254	.074
%RSD	.94995	.89582	.31541	.25972	.31046
#1	.04879	.11676	.12068	97.546	23.911
#2	.04813	.11529	.12014	97.905	24.017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213386-C-1-A Acquired: 10/9/2023 21:21:04 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15752**	**260.24**	**2.5426**	**.00241**	**3.1391**
Stddev	.00247	2.11	.0137	.00008	.0267
%RSD	1.5709	.81271	.53910	3.1767	.85007
#1	.15927	261.73	2.5523	.00236	3.1203
#2	.15577	258.74	2.5329	.00247	3.1580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Line	231.604 {446}	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}
IS Ref	(In2306)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12432**	**26.43**	**.06691**	**11.538**	**-.01016**
Stddev	.00101	.01	.00126	.072	.00310
%RSD	.81636	.0268	1.8797	.62793	30.506
#1	.12504	26.44	.06780	11.589	-.00797
#2	.12361	26.43	.06602	11.486	-.01235
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00684**	**2.3195**	**.04211**	**3.8195**	**1.054**
Stddev	.00024	.0351	.00036	.0038	.001
%RSD	3.4728	1.5134	.85849	.10024	.1113
#1	-.00668	2.3443	.04236	3.8168	1.053
#2	-.00701	2.2947	.04185	3.8222	1.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: 480-213386-C-1-A Acquired: 10/9/2023 21:21:04 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	TI1908	V_2924	Zn2062	Zr3438
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1421**	**.00008**	**.19087**	**.33506**	**1.044**
Stddev	.0026	.00100	.00009	.00077	.001
%RSD	.12029	1317.3	.04745	.22902	.0526
#1	2.1439	.00078	.19094	.33560	1.044
#2	2.1402	-.00063	.19081	.33452	1.045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4703.3**	**6625.3**	**30705.**	**83192.**
Stddev	12.0	13.5	167.	340.
%RSD	.25608	.20356	.54457	.40809
#1	4694.8	6615.7	30586.	82952.
#2	4711.8	6634.8	30823.	83432.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.888%	93.767%	104.61%	93.304%
Range				

Sample Name: 460-289510-A-1-F Acquired: 10/9/2023 21:24:42 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.36376**	**.00067**	**.21902**	**.23624**
Stddev	.00003	.00429	.00168	.00011	.00169
%RSD	103.51	1.1789	251.83	.05142	.71505
#1	.00006	.36073	.00185	.21910	.23504
#2	.00001	.36679	-.00052	.21894	.23743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**1.3201**	**.00262**	**.0137**	**.00230**
Stddev	.00010	.0083	.00017	.0267	.00016
%RSD	117.67	.62720	6.5706	195.1	7.1096
#1	-.00001	1.3259	.00250	-.0052	.00242
#2	-.00016	1.3142	.00274	.0326	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**.04035**	**.54487**	**18.215**	**.00157**
Stddev	.00007	.00094	.00259	.154	.00075
%RSD	2.4774	2.3225	.47526	.84632	47.738
#1	.00262	.04101	.54670	18.324	.00104
#2	.00271	.03969	.54304	18.106	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 460-289510-A-1-F Acquired: 10/9/2023 21:24:42 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37546**	**.00908**	**.01515**	**5.6317**	**.04761**
Stddev	.00281	.00009	.00012	.0064	.00073
%RSD	.74807	.99753	.76786	.11419	1.5336
#1	.37348	.00902	.01506	5.6271	.04812
#2	.37745	.00915	.01523	5.6362	.04709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.22**	**.73392**	**9.9798**	**.00801**	**.00185**
Stddev	.00	.00115	.0455	.00042	.00140
%RSD	.0070	.15647	.45614	5.2146	75.618
#1	27.22	.73311	10.012	.00830	.00086
#2	27.22	.73474	9.9476	.00771	.00285
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41073**	**.05404**	**.00588**	**1.003**	**.01036**
Stddev	.00133	.00026	.00017	.001	.00028
%RSD	.32381	.48802	2.8731	.0659	2.6666
#1	.41167	.05422	.00600	1.004	.01017
#2	.40979	.05385	.00576	1.003	.01056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 460-289510-A-1-F Acquired: 10/9/2023 21:24:42 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00328**	**.02398**	**.92320**	**1.000**
Stddev	.00017	.00010	.00689	.000
%RSD	5.2949	.41796	.74589	.0323
#1	-.00315	.02391	.91833	1.001
#2	-.00340	.02405	.92806	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5432.4**	**6906.7**	**31589.**	**84667.**
Stddev	5.5	8.1	129.	146.
%RSD	.10143	.11705	.40805	.17291
#1	5428.5	6901.0	31680.	84771.
#2	5436.3	6912.5	31498.	84564.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.582%	97.751%	107.62%	94.959%
Range				

Sample Name: 460-289510-B-2-B Acquired: 10/9/2023 21:28:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.11640**	**.00047**	**.00403**	**.03755**
Stddev	.00035	.01900	.00174	.00058	.00023
%RSD	69.192	16.327	371.80	14.475	.61844
#1	-.00026	.10296	-.00076	.00444	.03772
#2	-.00076	.12983	.00170	.00362	.03739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.27672**	**.00176**	**.0023**	**.00563**
Stddev	.00003	.00022	.00063	.0176	.00006
%RSD	13.316	.08115	36.090	751.2	1.0247
#1	-.00019	.27688	.00221	.0148	.00559
#2	-.00023	.27656	.00131	-.0101	.00567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00228**	**.13467**	**2.4829**	**.15068**	**.00537**
Stddev	.00026	.00104	.0080	.01618	.00001
%RSD	11.536	.77255	.32187	10.738	.14258
#1	.00246	.13540	2.4772	.16212	.00537
#2	.00209	.13393	2.4885	.13924	.00536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 460-289510-B-2-B Acquired: 10/9/2023 21:28:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05155**	**.00952**	**.00006**	**.09046**	**.01964**
Stddev	.00351	.00003	.00008	.00694	.00015
%RSD	6.8173	.32940	128.51	7.6702	.78167
#1	.05404	.00955	.00001	.08556	.01953
#2	.04907	.00950	.00012	.09537	.01974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**.02575**	**6.9105**	**.00430**	**.00167**
Stddev	.00	.00024	.0118	.00175	.00180
%RSD	.0034	.91539	.17046	40.683	107.77
#1	25.09	.02558	6.9188	.00553	.00295
#2	25.09	.02591	6.9022	.00306	.00040
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18679**	**.06310**	**.00197**	**1.008**	**.00881**
Stddev	.00496	.00024	.00012	.006	.00005
%RSD	2.6552	.38762	6.3479	.5630	.53433
#1	.18329	.06328	.00188	1.012	.00884
#2	.19030	.06293	.00206	1.004	.00877
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 460-289510-B-2-B Acquired: 10/9/2023 21:28:00 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00176**	**.01881**	**.26104**	**1.001**
Stddev	.00035	.00014	.00116	.001
%RSD	19.690	.72503	.44269	.1207
#1	-.00201	.01890	.26186	1.002
#2	-.00152	.01871	.26022	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5557.5**	**6984.1**	**31818.**	**86092.**
Stddev	2.4	4.0	295.	256.
%RSD	.04331	.05745	.92714	.29709
#1	5559.2	6981.2	31610.	85911.
#2	5555.8	6986.9	32027.	86273.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.760%	98.845%	108.40%	96.556%
Range				

Sample Name: 460-289510-B-3-B Acquired: 10/9/2023 21:31:19 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**58.834**	**.09368**	**.04928**	**3.3152**
Stddev	.00024	.808	.00125	.00016	.0478
%RSD	11.263	1.3736	1.3373	.31576	1.4409
#1	.00228	58.263	.09280	.04917	3.2815
#2	.00194	59.406	.09457	.04939	3.3490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00650**	**136.37**	**.04719**	**.5081**	**.08747**
Stddev	.00015	2.00	.00048	.0326	.00028
%RSD	2.2332	1.4689	1.0182	6.423	.31879
#1	.00639	137.78	.04685	.4850	.08767
#2	.00660	134.95	.04753	.5311	.08727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34592**	**6.9240**	**125.55**	**2.4770**	**.04928**
Stddev	.00148	.0096	1.76	.0161	.00234
%RSD	.42667	.13840	1.4030	.65017	4.7428
#1	.34488	6.9173	124.31	2.4656	.04763
#2	.34697	6.9308	126.80	2.4884	.05093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 460-289510-B-3-B Acquired: 10/9/2023 21:31:19 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.434**	**1.1393**	**.01261**	**1.1275**	**.21850**
Stddev	.027	.0023	.00016	.0364	.00209
%RSD	.18752	.19960	1.2621	3.2242	.95621
#1	14.415	1.1377	.01272	1.1018	.21998
#2	14.453	1.1409	.01249	1.1532	.21703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.40**	**6.5302**	**19.755**	**.05961**	**.00632**
Stddev	.00	.0099	.100	.00049	.00186
%RSD	.0143	.15098	.50837	.82201	29.382
#1	34.40	6.5371	19.826	.05926	.00500
#2	34.39	6.5232	19.684	.05996	.00763
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.989**	**2.5004**	**1.4741**	**1.064**	**.67469**
Stddev	.087	.0152	.0190	.005	.00066
%RSD	.48560	.60731	1.2855	.4758	.09836
#1	18.051	2.5111	1.4607	1.060	.67422
#2	17.928	2.4896	1.4875	1.067	.67516
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 460-289510-B-3-B Acquired: 10/9/2023 21:31:19 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.08808**	**7.4376**	**1.010**
Stddev	.00169	.00024	.0037	.001
%RSD	124.64	.26922	.05032	.0745
#1	-.00016	.08825	7.4403	1.009
#2	-.00255	.08791	7.4350	1.010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5223.5**	**8352.0**	**38181.**	**104050.**
Stddev	4.8	21.5	12.	193.
%RSD	.09134	.25726	.03144	.18555
#1	5226.9	8367.2	38189.	103910.
#2	5220.1	8336.8	38172.	104180.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.945%	118.21%	130.08%	116.69%
Range				

Sample Name: rinse Acquired: 10/9/2023 21:34:49 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.08725**	**.00068**	**-.00005**	**-.00021**
Stddev	.00046	.00357	.00218	.00020	.00001
%RSD	457.08	4.0905	318.26	368.44	4.5475
#1	.00023	.08977	-.00086	-.00020	-.00022
#2	-.00043	.08472	.00222	.00009	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.02913**	**-.00008**	**-.0301**	**-.00032**
Stddev	.00008	.01211	.00027	.0130	.00001
%RSD	38.622	41.562	342.99	43.30	4.3631
#1	-.00026	.03769	.00011	-.0393	-.00031
#2	-.00015	.02057	-.00027	-.0209	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00042**	**.00486**	**-.04220**	**-.00256**
Stddev	.00022	.00026	.01147	.01429	.00045
%RSD	387.39	61.891	235.89	33.853	17.588
#1	-.00022	-.00024	.01297	-.05230	-.00224
#2	.00010	-.00061	-.00325	-.03210	-.00287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 21:34:49 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00974**	**-.00008**	**-.00089**	**-.03111**	**-.00012**
Stddev	.00040	.00010	.00035	.01306	.00024
%RSD	4.1401	129.37	39.080	41.978	203.02
#1	-.01002	-.00001	-.00064	-.02188	-.00029
#2	-.00945	-.00015	-.00114	-.04035	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00069**	**.01791**	**.00245**	**.00215**
Stddev	.00	.00140	.00415	.00175	.00060
%RSD	.0028	202.01	23.195	71.471	27.678
#1	25.00	.00030	.02085	.00368	.00257
#2	25.00	-.00168	.01497	.00121	.00173
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00467**	**-.00027**	**-.00015**	**1.005**	**.00007**
Stddev	.00932	.00004	.00002	.006	.00019
%RSD	199.41	16.357	10.190	.6446	278.08
#1	-.00192	-.00024	-.00014	1.009	.00021
#2	.01126	-.00030	-.00016	1.000	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 21:34:49 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**-.00018**	**.00931**	**.9995**
Stddev	.00062	.00054	.00009	.0010
%RSD	54.660	297.34	.93327	.0953
#1	-.00158	.00020	.00938	.9988
#2	-.00070	-.00056	.00925	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5532.4**	**6919.4**	**31617.**	**86473.**
Stddev	.3	.4	221.	518.
%RSD	.00488	.00593	.69887	.59866
#1	5532.6	6919.1	31773.	86839.
#2	5532.2	6919.7	31461.	86107.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.324%	97.929%	107.72%	96.984%
Range				

Sample Name: 480-212855-A-1-B Acquired: 10/9/2023 21:38:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00742**	**43.906**	**1.2012**	**1.9992**	**1.7193**
Stddev	.00036	.267	.0012	.0016	.0156
%RSD	4.8416	.60698	.09579	.08181	.90813
#1	.00768	43.718	1.2020	1.9980	1.7083
#2	.00717	44.094	1.2004	2.0003	1.7303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00667**	**107.84**	**.12389**	**.1528**	**.10340**
Stddev	.00012	1.16	.00111	.0167	.00095
%RSD	1.8642	1.0787	.89710	10.91	.91561
#1	.00658	107.02	.12467	.1410	.10407
#2	.00675	108.66	.12310	.1646	.10273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41717**	**.57107**	F **673.71**	**7.2407**	**.08946**
Stddev	.00018	.00070	7.56	.0107	.00411
%RSD	.04260	.12249	1.1219	.14733	4.5902
#1	.41730	.57057	668.37	7.2332	.08656
#2	.41705	.57156	679.06	7.2483	.09237
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			540.00		
Low Limit			-.05000		

Sample Name: 480-212855-A-1-B Acquired: 10/9/2023 21:38:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.882**	**3.6972**	**.05691**	**3.6400**	**.37280**
Stddev	.000	.0133	.00018	.0450	.00214
%RSD	.00220	.35890	.30781	1.2372	.57487
#1	16.882	3.6878	.05704	3.6082	.37432
#2	16.882	3.7066	.05679	3.6719	.37129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.40**	**25.105**	**67.653**	**.02620**	**.16175**
Stddev	.00	.060	.123	.00123	.00301
%RSD	.0079	.23979	.18215	4.7040	1.8584
#1	26.40	25.148	67.566	.02707	.15963
#2	26.40	25.062	67.740	.02533	.16388
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5315**	**.86864**	**.38786**	**1.312**	**11.201**
Stddev	.0591	.00617	.00429	.003	.038
%RSD	1.3035	.71029	1.1073	.2564	.34064
#1	4.4897	.87300	.38482	1.315	11.228
#2	4.5732	.86428	.39089	1.310	11.174
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212855-A-1-B Acquired: 10/9/2023 21:38:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.01720**	**.26983**	**9.0719**	**1.160**
Stddev	.00098	.00048	.0200	.001
%RSD	5.6936	.17708	.22020	.0864
#1	.01650	.26949	9.0577	1.159
#2	.01789	.27017	9.0860	1.160
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5167.8**	**7114.5**	**32581.**	**88527.**
Stddev	15.8	34.9	47.	117.
%RSD	.30513	.48987	.14525	.13232
#1	5178.9	7139.1	32615.	88444.
#2	5156.6	7089.9	32548.	88610.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.975%	100.69%	111.00%	99.288%
Range				

Sample Name: 480-212855-A-1-B@5 Acquired: 10/9/2023 21:41:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**8.5285**	**.24937**	**.41701**	**.34024**
Stddev	.00000	.1903	.00443	.00027	.00287
%RSD	.05421	2.2310	1.7777	.06427	.84299
#1	.00134	8.3939	.24624	.41682	.33822
#2	.00134	8.6630	.25250	.41719	.34227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**21.364**	**.02499**	**.0161**	**.02005**
Stddev	.00001	.444	.00008	.0174	.00016
%RSD	.49795	2.0797	.31663	108.5	.78921
#1	.00115	21.049	.02493	.0284	.02016
#2	.00116	21.678	.02505	.0037	.01994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08691**	**.11417**	**133.27**	**1.4430**	**.01717**
Stddev	.00120	.00110	3.38	.0149	.00052
%RSD	1.3812	.96561	2.5328	1.0295	3.0203
#1	.08606	.11339	130.89	1.4325	.01753
#2	.08776	.11494	135.66	1.4535	.01680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212855-A-1-B@5 Acquired: 10/9/2023 21:41:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6331**	**.79325**	**.01122**	**.69198**	**.07450**
Stddev	.0346	.01035	.00019	.00969	.00020
%RSD	.95327	1.3043	1.7187	1.4004	.27332
#1	3.6086	.78593	.01109	.68513	.07436
#2	3.6576	.80057	.01136	.69884	.07465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.29**	**4.9613**	**14.150**	**.00632**	**.03121**
Stddev	.00	.0004	.015	.00158	.00114
%RSD	.0028	.00761	.10932	24.949	3.6615
#1	25.29	4.9616	14.161	.00743	.03202
#2	25.29	4.9610	14.139	.00520	.03040
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.85727**	**.17222**	**.07572**	**1.068**	**2.3211**
Stddev	.02244	.00069	.00132	.001	.0296
%RSD	2.6175	.40088	1.7396	.1036	1.2747
#1	.84140	.17174	.07479	1.067	2.3002
#2	.87314	.17271	.07665	1.068	2.3420
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212855-A-1-B@5 Acquired: 10/9/2023 21:41:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00312**	**.05540**	**1.9830**	**1.030**
Stddev	.00133	.00102	.0218	.000
%RSD	42.765	1.8344	1.1000	.0035
#1	.00406	.05468	1.9676	1.030
#2	.00217	.05612	1.9984	1.030
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5470.3**	**7014.3**	**32287.**	**87622.**
Stddev	6.3	4.5	335.	507.
%RSD	.11478	.06366	1.0362	.57841
#1	5465.9	7011.1	32523.	87980.
#2	5474.7	7017.4	32050.	87264.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.242%	99.272%	110.00%	98.272%
Range				

Sample Name: 480-212960-A-1-B@5 Acquired: 10/9/2023 21:45:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**20.116**	**.01222**	**.01864**	**.18108**
Stddev	.00051	.520	.00042	.00005	.00044
%RSD	40.040	2.5850	3.4494	.26181	.24542
#1	-.00091	19.748	.01252	.01861	.18077
#2	-.00163	20.484	.01192	.01868	.18140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**8.1741**	**.00167**	**.0248**	**.11770**
Stddev	.00010	.2260	.00008	.0172	.00014
%RSD	12.491	2.7643	4.4931	69.29	.11758
#1	.00070	8.0143	.00172	.0369	.11760
#2	.00084	8.3339	.00162	.0126	.11780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7884**	**.06451**	**37.369**	**4.9079**	**.02487**
Stddev	.0078	.00030	.990	.0812	.00077
%RSD	.43627	.46784	2.6499	1.6548	3.0899
#1	1.7829	.06429	36.669	4.8505	.02433
#2	1.7939	.06472	38.070	4.9653	.02541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-1-B@5 Acquired: 10/9/2023 21:45:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8187**	**.97304**	**.17057**	**.18952**	**2.6112**
Stddev	.0192	.00582	.00077	.00040	.0018
%RSD	.33066	.59825	.45383	.21115	.06699
#1	5.8051	.96892	.17112	.18980	2.6099
#2	5.8323	.97715	.17003	.18924	2.6124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.40**	**.06007**	**.65655**	F **-.02693**	**.00042**
Stddev	.00	.00186	.00149	.00161	.00185
%RSD	.0018	3.0984	.22709	5.9924	445.63
#1	25.40	.05876	.65760	-.02579	.00172
#2	25.40	.06139	.65549	-.02807	-.00089
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2604**	**.01618**	**.04139**	**1.025**	**.69123**
Stddev	.0389	.00021	.00097	.003	.00551
%RSD	1.1938	1.3169	2.3324	.2873	.79647
#1	3.2329	.01603	.04071	1.023	.68734
#2	3.2879	.01633	.04208	1.027	.69512
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-1-B@5 Acquired: 10/9/2023 21:45:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00039**	**.06469**	**.10436**	**1.008**
Stddev	.00019	.00002	.00069	.000
%RSD	49.198	.03084	.65940	.0047
#1	.00026	.06467	.10387	1.008
#2	.00053	.06470	.10484	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5479.9**	**7036.3**	**32455.**	**87189.**
Stddev	16.1	19.1	49.	183.
%RSD	.29439	.27212	.15180	.21006
#1	5491.3	7049.8	32490.	87318.
#2	5468.5	7022.8	32420.	87059.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.409%	99.584%	110.57%	97.787%
Range				

Sample Name: 480-212960-A-2-D@5 Acquired: 10/9/2023 21:48:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00284**	**14.812**	**.09927**	**.07594**	**.32383**
Stddev	.00078	.271	.00136	.00125	.00527
%RSD	27.281	1.8323	1.3719	1.6463	1.6280
#1	-.00339	14.620	.10023	.07506	.32755
#2	-.00230	15.004	.09831	.07682	.32010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**118.43**	**.00889**	**-.1187**	**1.0460**
Stddev	.00004	1.11	.00035	.0276	.0037
%RSD	11.752	.93374	3.9789	23.21	.35815
#1	.00029	117.65	.00914	-.0992	1.0487
#2	.00035	119.22	.00864	-.1382	1.0434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **39.471**	**.71171**	**423.20**	**2.8912**	**.01863**
Stddev	.709	.00453	6.00	.0466	.00049
%RSD	1.7956	.63599	1.4182	1.6123	2.6305
#1	39.973	.71491	418.96	2.9241	.01828
#2	38.970	.70851	427.45	2.8582	.01898
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 480-212960-A-2-D@5 Acquired: 10/9/2023 21:48:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.098**	**5.4116**	**.87118**	**.51684**	F **12.682**
Stddev	.337	.0993	.00682	.00188	.056
%RSD	.64630	1.8349	.78287	.36365	.44086
#1	52.337	5.4818	.87601	.51817	12.721
#2	51.860	5.3414	.86636	.51552	12.642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.08837**	**1.6368**	F **-.56476**	**.00347**
Stddev	.00	.00143	.0062	.01233	.00052
%RSD	.0051	1.6228	.37903	2.1838	15.007
#1	25.12	.08736	1.6412	-.57348	.00383
#2	25.12	.08939	1.6324	-.55604	.00310
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5081**	**.06374**	**.15570**	**1.200**	**1.6953**
Stddev	.1421	.00125	.00153	.005	.0157
%RSD	3.1519	1.9614	.97976	.4173	.92471
#1	4.6085	.06462	.15462	1.204	1.7064
#2	4.4076	.06285	.15678	1.196	1.6842
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-2-D@5 Acquired: 10/9/2023 21:48:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00598**	**.37765**	**.06769**	**1.069**
Stddev	.00130	.00243	.00230	.002
%RSD	21.716	.64375	3.3913	.2037
#1	.00690	.37937	.06931	1.067
#2	.00506	.37593	.06607	1.070
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5192.0**	**6549.7**	**31177.**	**83826.**
Stddev	12.9	16.7	367.	217.
%RSD	.24884	.25557	1.1766	.25865
#1	5182.9	6537.8	30917.	83672.
#2	5201.2	6561.5	31436.	83979.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.397%	92.697%	106.22%	94.015%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 21:51:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93000**	**50.827**	**1.0125**	**.99637**	**.98270**
Stddev	.01055	.062	.0016	.00354	.00088
%RSD	1.1339	.12102	.15567	.35501	.08999
#1	.92255	50.784	1.0114	.99887	.98207
#2	.93746	50.871	1.0137	.99387	.98333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0033**	**48.628**	**1.0669**	**.9842**	**1.0145**
Stddev	.0060	.382	.0003	.0565	.0002
%RSD	.60021	.78653	.03132	5.738	.02324
#1	.99905	48.358	1.0671	1.024	1.0146
#2	1.0076	48.899	1.0666	.9442	1.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.90023**	**.91954**	**49.141**	**50.319**	**.97928**
Stddev	.01769	.01300	.021	.291	.01178
%RSD	1.9649	1.4141	.04181	.57864	1.2026
#1	.88772	.91035	49.156	50.113	.97095
#2	.91274	.92874	49.126	50.525	.98760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 21:51:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.821**	**.92711**	**.98604**	**50.223**	**1.0141**
Stddev	.448	.01255	.00462	.031	.0003
%RSD	.93719	1.3540	.46859	.06155	.03027
#1	47.504	.91824	.98930	50.201	1.0144
#2	48.138	.93599	.98277	50.245	1.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.55**	**1.0132**	**23.824**	**1.0151**	**1.0107**
Stddev	.04	.0014	.046	.0118	.0025
%RSD	.1041	.13865	.19463	1.1573	.24305
#1	37.58	1.0122	23.856	1.0234	1.0124
#2	37.52	1.0142	23.791	1.0068	1.0090
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.290**	**.99721**	**1.0113**	**1.496**	**.92799**
Stddev	.097	.00135	.0069	.005	.01391
%RSD	.93949	.13560	.68506	.3499	1.4986
#1	10.221	.99816	1.0064	1.493	.91815
#2	10.358	.99625	1.0162	1.500	.93782
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 21:51:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99824**	**.92623**	**.95321**	**1.488**
Stddev	.00329	.01255	.01046	.002
%RSD	.33000	1.3548	1.0974	.1562
#1	.99591	.91736	.94581	1.486
#2	1.0006	.93510	.96060	1.489
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5200.6**	**6771.9**	**30893.**	**83028.**
Stddev	4.1	.1	239.	379.
%RSD	.07897	.00179	.77265	.45606
#1	5203.5	6772.0	31062.	82760.
#2	5197.7	6771.8	30724.	83296.

Sample Name: CCB-7506043 Acquired: 10/9/2023 21:55:10 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00214**	**.00223**	**.00062**	**-.00007**
Stddev	.00012	.01560	.00052	.00019	.00002
%RSD	1162.5	730.84	23.366	30.940	30.290
#1	.00010	.00890	.00186	.00075	-.00009
#2	-.00008	-.01317	.00260	.00048	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.04984**	**.00013**	**-.0709**	**-.00039**
Stddev	.00009	.00209	.00025	.0449	.00015
%RSD	157.21	4.1860	186.20	63.32	37.412
#1	.00001	.04837	.00031	-.1026	-.00029
#2	-.00012	.05132	-.00004	-.0391	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**.00078**	**.01400**	**.07639**	**.00058**
Stddev	.00041	.00025	.00885	.03971	.00181
%RSD	31.001	32.226	63.193	51.985	309.96
#1	.00103	.00060	.02026	.10447	-.00070
#2	.00161	.00096	.00774	.04831	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 21:55:10 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**.00036**	**.00137**	**-.00284**	**.00027**
Stddev	.00071	.00004	.00033	.00434	.00051
%RSD	16.220	9.9570	24.187	152.89	184.52
#1	.00389	.00033	.00114	.00023	.00063
#2	.00490	.00038	.00161	-.00591	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00025**	**.00872**	**.00070**	**.00042**
Stddev	.00	.00092	.00378	.00191	.00081
%RSD	.0030	370.94	43.334	274.28	191.93
#1	25.00	-.00089	.01139	.00204	.00100
#2	25.00	.00040	.00604	-.00065	-.00015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00583**	**.00039**	**-.00008**	**1.005**	**.00071**
Stddev	.01809	.00070	.00005	.003	.00004
%RSD	310.25	179.96	62.757	.2907	5.2213
#1	.01862	.00088	-.00012	1.003	.00074
#2	-.00696	-.00011	-.00004	1.007	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 21:55:10 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00021**	**-.00022**	**.9989**
Stddev	.00168	.00037	.00031	.0001
%RSD	12428.	179.20	144.22	.0100
#1	.00120	-.00047	.00000	.9990
#2	-.00118	.00006	-.00043	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5744.8**	**7186.3**	**32567.**	**88493.**
Stddev	4.3	1.3	34.	719.
%RSD	.07446	.01838	.10319	.81229
#1	5747.8	7185.4	32591.	89001.
#2	5741.8	7187.3	32543.	87984.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 21:58:35 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00443**	**.20480**	**.01702**	**.01964**	**.00218**
Stddev	.00010	.04638	.00264	.00000	.00006
%RSD	2.2378	22.644	15.517	.00157	2.7234
#1	.00450	.17201	.01889	.01964	.00214
#2	.00436	.23760	.01516	.01964	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	W **.69754**	**.00208**	**-.0146**	**.00379**
Stddev	.00023	.11366	.00010	.0312	.00008
%RSD	12.696	16.295	4.6729	213.1	2.2007
#1	.00164	.61717	.00201	-.0366	.00385
#2	.00197	.77791	.00215	.0074	.00373
Check ?	Chk Pass	Chk Warn	Chk Pass	None	Chk Pass
Value		.50000			
Range		30.000%			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00709**	**.00986**	F **.10747**	**.54924**	**.02777**
Stddev	.00050	.00056	.03365	.05665	.00386
%RSD	7.0626	5.6572	31.312	10.314	13.906
#1	.00674	.00947	.08368	.58930	.02504
#2	.00744	.01025	.13127	.50919	.03050
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value	.00400		.05000		
Range	50.000%		50.000%		

Sample Name: CCVL-7610998 Acquired: 10/9/2023 21:58:35 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22158**	W **.00413**	**.00986**	**1.0178**	**.01092**
Stddev	.00751	.00016	.00009	.0111	.00039
%RSD	3.3896	3.7796	.95745	1.0946	3.5870
#1	.21626	.00402	.00993	1.0100	.01120
#2	.22689	.00424	.00979	1.0257	.01065
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		30.000%			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01002**	**.20414**	**.02243**	**.02416**
Stddev	.00	.00021	.00189	.00014	.00040
%RSD	.0001	2.0985	.92764	.64382	1.6529
#1	25.00	.01017	.20548	.02253	.02387
#2	25.00	.00988	.20281	.02233	.02444
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49736**	**.00997**	**.00504**	F **1.003**	**.00568**
Stddev	.02211	.00006	.00018	.005	.00028
%RSD	4.4454	.56356	3.6372	.4636	5.0078
#1	.48173	.01001	.00491	.9999	.00588
#2	.51300	.00993	.00517	1.006	.00548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 21:58:35 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01896**	**.00485**	**.01046**	F **1.001**
Stddev	.00127	.00019	.00032	.000
%RSD	6.7162	3.9736	3.0310	.0124
#1	.01806	.00499	.01024	1.001
#2	.01986	.00472	.01069	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5510.1**	**6926.5**	**31680.**	**85791.**
Stddev	18.7	18.1	212.	213.
%RSD	.33871	.26064	.66999	.24791
#1	5497.0	6913.8	31830.	85942.
#2	5523.3	6939.3	31530.	85641.

Sample Name: 480-212960-A-2-D@50 Acquired: 10/9/2023 22:01:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00132**	**1.3292**	k **.00852**	**.00727**	**.03020**
Stddev	.00040	.0696	.00308	.00077	.00038
%RSD	30.280	5.2367	36.153	10.572	1.2735
#1	-.00104	1.2799	.01070	.00781	.02993
#2	k -.00161	1.3784	k .00634	.00672	.03048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**11.138**	k **.00115**	**-.0361**	k **.09965**
Stddev	.00006	.430	.00038	.0213	.00038
%RSD	47.892	3.8605	33.464	58.93	.37968
#1	-.00017	10.834	.00142	-.0210	.09992
#2	-.00008	11.442	k .00088	-.0511	k .09939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **4.0632**	**.06895**	**40.295**	**.27173**	**.00223**
Stddev	.0853	.00112	1.854	.02333	.00502
%RSD	2.1000	1.6279	4.6017	8.5855	224.81
#1	4.0029	.06816	38.983	.25524	-.00132
#2	k 4.1236	.06975	41.606	.28823	.00578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-2-D@50 Acquired: 10/9/2023 22:01:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **5.0606**	k **.55110**	**.08138**	**.02470**	k **1.2153**
Stddev	.0991	.01323	.00018	.00338	.0040
%RSD	1.9591	2.4009	.21984	13.677	.32968
#1	4.9905	.54174	.08151	.02231	1.2181
#2	k 5.1307	k .56045	.08125	.02709	k 1.2125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	k **.00587**	**.15420**	k **-.01364**	k **.00290**
Stddev	.00	.00343	.00328	.06252	.00339
%RSD	.0010	58.438	2.1275	458.47	116.63
#1	25.01	.00829	.15652	-.05784	.00530
#2	25.01	k .00344	.15188	k .03057	k .00051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.31416**	**.00551**	**.01420**	**1.024**	k **.16227**
Stddev	.04181	.00045	.00041	.009	.00345
%RSD	13.309	8.1085	2.8612	.9194	2.1236
#1	.28459	.00520	.01391	1.017	.15983
#2	k .34372	.00583	.01448	1.031	k .16471
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-2-D@50 Acquired: 10/9/2023 22:01:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	k **.00120**	k **.03593**	k **.00521**	**1.005**
Stddev	.00175	.00091	.00456	.001
%RSD	144.94	2.5387	87.659	.1346
#1	-.00003	.03529	.00844	1.004
#2	k .00244	k .03658	k .00198	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5566.0**	**6973.6**	**32207.**	**88086.**
Stddev	1.8	2.5	551.	759.
%RSD	.03229	.03611	1.7102	.86196
#1	5564.7	6971.8	32596.	88623.
#2	5567.3	6975.3	31817.	87549.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.909%	98.696%	109.73%	98.793%
Range				

Sample Name: 212960-A-2-DSD@25 Acquired: 10/9/2023 22:05:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**2.8571**	**.01907**	**.01520**	**.06458**
Stddev	.00096	.1622	.00092	.00020	.00109
%RSD	321.03	5.6785	4.8483	1.3237	1.6916
#1	.00038	2.7424	.01842	.01506	.06381
#2	-.00098	2.9718	.01972	.01535	.06535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**23.366**	**.00160**	**-.0328**	**.21186**
Stddev	.00000	1.239	.00016	.0017	.00029
%RSD	.67979	5.3043	9.7243	5.283	.13521
#1	-.00007	22.490	.00172	-.0316	.21206
#2	-.00007	24.243	.00149	-.0340	.21166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6262**	**.14036**	**83.424**	**.50311**	**.00394**
Stddev	.2156	.00185	4.306	.02397	.00120
%RSD	2.4991	1.3215	5.1617	4.7649	30.418
#1	8.4737	.13905	80.379	.52006	.00309
#2	8.7786	.14167	86.469	.48615	.00479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-DSD@25 Acquired: 10/9/2023 22:05:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.658**	**1.1562**	**.17605**	**.07312**	**2.5806**
Stddev	.165	.0201	.00143	.00449	.0022
%RSD	1.5485	1.7417	.81420	6.1466	.08532
#1	10.542	1.1420	.17706	.06994	2.5822
#2	10.775	1.1705	.17503	.07629	2.5791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.01765**	**.32325**	F **-.12924**	**.00289**
Stddev	.00	.00121	.00458	.00700	.00232
%RSD	.0019	6.8446	1.4174	5.4202	80.116
#1	25.02	.01850	.32649	-.12429	.00125
#2	25.02	.01679	.32001	-.13419	.00453
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2471**	**.01279**	**.02984**	**1.040**	**.34325**
Stddev	.0605	.00046	.00149	.002	.00628
%RSD	4.8506	3.6195	4.9926	.2060	1.8285
#1	1.2043	.01312	.02879	1.039	.33881
#2	1.2898	.01246	.03090	1.042	.34769
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-DSD@25 Acquired: 10/9/2023 22:05:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00215**	**.07619**	**.01487**	**1.013**
Stddev	.00050	.00236	.00015	.000
%RSD	23.064	3.0959	.98237	.0335
#1	.00250	.07452	.01477	1.013
#2	.00180	.07785	.01497	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5584.3**	**7008.5**	**32676.**	**89118.**
Stddev	15.7	18.5	376.	910.
%RSD	.28074	.26405	1.1496	1.0213
#1	5595.4	7021.6	32941.	89762.
#2	5573.3	6995.4	32410.	88474.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.228%	99.191%	111.32%	99.950%
Range				

Sample Name: 212960-A-2-DSD@250 Acquired: 10/9/2023 22:08:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.28656**	**.00165**	**.00144**	**.00604**
Stddev	.00021	.02015	.00062	.00017	.00014
%RSD	43.260	7.0318	37.618	12.112	2.2919
#1	-.00064	.27231	.00121	.00132	.00594
#2	-.00034	.30081	.00209	.00157	.00614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**2.4048**	**.00036**	**.0250**	**.01968**
Stddev	.00011	.2097	.00041	.0148	.00006
%RSD	84.055	8.7182	111.75	59.35	.31238
#1	-.00021	2.2565	.00065	.0145	.01972
#2	-.00005	2.5530	.00008	.0355	.01964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82970**	**.01302**	**8.1820**	**.04600**	**.00148**
Stddev	.01510	.00068	.3300	.05359	.00403
%RSD	1.8195	5.2455	4.0327	116.50	272.52
#1	.81902	.01253	7.9487	.00811	.00432
#2	.84037	.01350	8.4153	.08389	-.00137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-DSD@250 Acquired: 10/9/2023 22:08:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0260**	**.11243**	**.01660**	**-.01611**	**.24375**
Stddev	.0226	.00165	.00016	.01285	.00149
%RSD	2.2056	1.4717	.94881	79.746	.61239
#1	1.0100	.11126	.01649	-.02520	.24480
#2	1.0420	.11360	.01671	-.00703	.24269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00087**	**.03164**	**-.01250**	**.00077**
Stddev	.00	.00023	.00068	.00009	.00078
%RSD	.0046	26.680	2.1622	.71565	101.90
#1	25.00	.00104	.03212	-.01256	.00021
#2	25.00	.00071	.03115	-.01244	.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13005**	**.00079**	**.00295**	**1.010**	**.03328**
Stddev	.01207	.00073	.00024	.004	.00115
%RSD	9.2799	92.385	8.2162	.3525	3.4550
#1	.12151	.00028	.00278	1.013	.03247
#2	.13858	.00131	.00312	1.008	.03409
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-DSD@250 Acquired: 10/9/2023 22:08:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.00718**	**.00403**	**1.001**
Stddev	.00072	.00020	.00048	.000
%RSD	105.83	2.7205	11.822	.0132
#1	-.00119	.00732	.00369	1.000
#2	-.00017	.00705	.00437	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5629.2**	**7049.5**	**32261.**	**88604.**
Stddev	5.3	15.1	196.	442.
%RSD	.09442	.21395	.60689	.49863
#1	5633.0	7060.2	32400.	88916.
#2	5625.4	7038.9	32123.	88292.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.008%	99.772%	109.91%	99.374%
Range				

Sample Name: 212960-A-2-DPDS@5 Acquired: 10/9/2023 22:11:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00705**	**16.659**	**.14481**	**.11654**	**.35313**
Stddev	.00012	.516	.00088	.00019	.00513
%RSD	1.6894	3.0983	.60920	.16537	1.4534
#1	.00714	16.294	.14544	.11640	.34950
#2	.00697	17.024	.14419	.11668	.35676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04749**	**117.79**	**.05812**	**-.0140**	**1.0542**
Stddev	.00109	2.31	.00072	.0326	.0037
%RSD	2.2905	1.9619	1.2388	232.3	.35061
#1	.04672	116.15	.05761	-.0371	1.0568
#2	.04826	119.42	.05863	.0090	1.0516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **38.935**	**.72362**	**416.21**	**5.1695**	**.06375**
Stddev	.614	.00258	8.96	.0051	.00065
%RSD	1.5780	.35670	2.1539	.09895	1.0172
#1	38.500	.72179	409.87	5.1659	.06329
#2	39.369	.72544	422.55	5.1732	.06421
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 212960-A-2-DPDS@5 Acquired: 10/9/2023 22:11:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.215**	**5.3377**	**.87433**	**2.8291**	F **12.227**
Stddev	.127	.0579	.00824	.0394	.048
%RSD	.24235	1.0842	.94245	1.3938	.38928
#1	52.126	5.2968	.88016	2.8012	12.261
#2	52.305	5.3786	.86850	2.8570	12.193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.13177**	**3.7578**	F **-.51800**	**.04802**
Stddev	.00	.00016	.0045	.01705	.00011
%RSD	.0006	.12014	.12047	3.2922	.23402
#1	25.12	.13166	3.7610	-.50594	.04810
#2	25.12	.13188	3.7546	-.53006	.04794
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3268**	**.10696**	**.19621**	**1.186**	**1.6715**
Stddev	.0945	.00006	.00487	.001	.0067
%RSD	1.4941	.05206	2.4846	.1201	.39962
#1	6.2600	.10700	.19276	1.185	1.6668
#2	6.3937	.10692	.19965	1.187	1.6762
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-DPDS@5 Acquired: 10/9/2023 22:11:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.04927**	**.40663**	**.10677**	**1.068**
Stddev	.00291	.00070	.00086	.002
%RSD	5.9146	.17271	.80317	.2020
#1	.04721	.40613	.10616	1.066
#2	.05133	.40713	.10738	1.069
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5143.3**	**6538.0**	**30945.**	**83022.**
Stddev	3.5	.9	164.	26.
%RSD	.06867	.01326	.52851	.03190
#1	5145.8	6537.4	31061.	83003.
#2	5140.8	6538.6	30829.	83040.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.548%	92.531%	105.43%	93.113%
Range				

Sample Name: 212960-A-2-DPDS@50 Acquired: 10/9/2023 22:15:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**1.8339**	**.01816**	**.01510**	**.04202**
Stddev	.00028	.0662	.00124	.00024	.00121
%RSD	20.113	3.6094	6.8141	1.6164	2.8768
#1	.00121	1.7871	.01728	.01493	.04117
#2	.00160	1.8807	.01903	.01527	.04288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00530**	**12.946**	**.00735**	**-.0578**	**.13713**
Stddev	.00032	.491	.00087	.0025	.00517
%RSD	6.1223	3.7917	11.880	4.291	3.7711
#1	.00507	12.599	.00797	-.0561	.13347
#2	.00553	13.293	.00674	-.0596	.14079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9850**	**.08628**	**45.617**	**.52841**	**.00603**
Stddev	.1289	.00181	2.145	.00775	.00053
%RSD	2.5867	2.0932	4.7015	1.4659	8.7416
#1	4.8938	.08500	44.101	.52293	.00566
#2	5.0761	.08756	47.134	.53389	.00640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-DPDS@50 Acquired: 10/9/2023 22:15:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3879**	**.67145**	**.11503**	**.29983**	**1.6009**
Stddev	.1613	.01710	.00423	.01213	.0595
%RSD	2.5252	2.5466	3.6817	4.0467	3.7150
#1	6.2739	.65936	.11203	.29126	1.5589
#2	6.5020	.68355	.11802	.30841	1.6430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.01599**	**.48492**	F **-.06366**	**.00492**
Stddev	.00	.00134	.01632	.00242	.00182
%RSD	.0030	8.3733	3.3664	3.8026	36.921
#1	25.01	.01504	.47338	-.06194	.00620
#2	25.01	.01693	.49646	-.06537	.00363
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.55399**	**.01435**	**.02144**	**1.021**	**.20399**
Stddev	.02439	.00043	.00084	.001	.00606
%RSD	4.4031	3.0282	3.9228	.1186	2.9712
#1	.53675	.01404	.02085	1.020	.19970
#2	.57124	.01466	.02203	1.021	.20827
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-DPDS@50 Acquired: 10/9/2023 22:15:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00552**	**.04855**	**.01393**	**1.007**
Stddev	.00021	.00149	.00037	.000
%RSD	3.8306	3.0735	2.6466	.0249
#1	.00537	.04749	.01367	1.007
#2	.00567	.04960	.01419	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5510.3**	**6920.2**	**31889.**	**87877.**
Stddev	3.4	9.1	130.	105.
%RSD	.06218	.13197	.40736	.11988
#1	5512.7	6926.7	31980.	87803.
#2	5507.9	6913.7	31797.	87952.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.939%	97.941%	108.64%	98.559%
Range				

Sample Name: 212960-A-2-E MS@5 Acquired: 10/9/2023 22:18:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01496**	**29.938**	**.17122**	**.14198**	**.46785**
Stddev	.00108	.597	.00055	.00064	.00143
%RSD	7.2242	1.9957	.32223	.44934	.30605
#1	.01419	29.516	.17083	.14153	.46886
#2	.01572	30.361	.17161	.14243	.46684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08332**	**74.935**	**.09567**	**-.0262**	**.92339**
Stddev	.00157	1.649	.00019	.0026	.00482
%RSD	1.8786	2.2002	.19477	9.864	.52172
#1	.08222	73.769	.09554	-.0244	.92680
#2	.08443	76.101	.09581	-.0281	.91999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **34.889**	**.69823**	**351.28**	**11.583**	**.10353**
Stddev	.340	.00036	8.68	.079	.00041
%RSD	.97392	.05115	2.4712	.68317	.39786
#1	35.129	.69849	345.14	11.527	.10324
#2	34.649	.69798	357.41	11.639	.10382
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 212960-A-2-E MS@5 Acquired: 10/9/2023 22:18:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.180**	**4.4151**	**.93249**	**5.0950**	F **11.451**
Stddev	.036	.0159	.00902	.0570	.060
%RSD	.09842	.36127	.96703	1.1194	.52028
#1	36.205	4.4039	.93887	5.0547	11.493
#2	36.155	4.4264	.92612	5.1354	11.409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.19**	**.17901**	**4.9171**	F **-.44814**	**.07995**
Stddev	.00	.00018	.0238	.00446	.00608
%RSD	.0001	.09884	.48362	.99498	7.6042
#1	25.19	.17914	4.9339	-.45129	.07565
#2	25.19	.17889	4.9003	-.44498	.08425
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1555**	**.13477**	**.19609**	**1.163**	**1.4345**
Stddev	.0083	.00214	.00355	.008	.0011
%RSD	.19942	1.5893	1.8090	.6884	.07543
#1	4.1497	.13628	.19358	1.157	1.4353
#2	4.1614	.13325	.19860	1.168	1.4338
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-E MS@5 Acquired: 10/9/2023 22:18:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.08010**	**.42560**	**.15701**	**1.057**
Stddev	.00043	.00142	.00013	.001
%RSD	.54146	.33476	.08035	.0585
#1	.07979	.42661	.15710	1.057
#2	.08041	.42459	.15692	1.058
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5205.9**	**6645.3**	**30906.**	**84923.**
Stddev	10.5	14.7	73.	139.
%RSD	.20202	.22057	.23515	.16396
#1	5198.4	6635.0	30855.	85021.
#2	5213.3	6655.7	30957.	84824.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.638%	94.051%	105.29%	95.245%
Range				

Sample Name: 212960-A-2-E MS@50 Acquired: 10/9/2023 22:22:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**2.8090**	**.01555**	**.01288**	**.04500**
Stddev	.00051	.1288	.00108	.00038	.00030
%RSD	87.702	4.5870	6.9716	2.9575	.67164
#1	.00022	2.7179	.01632	.01261	.04479
#2	.00093	2.9001	.01478	.01315	.04521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00762**	**7.1374**	**.00888**	**-.0165**	**.08864**
Stddev	.00030	.2844	.00019	.0168	.00003
%RSD	3.9054	3.9850	2.0911	102.3	.03177
#1	.00741	6.9362	.00901	-.0045	.08862
#2	.00783	7.3385	.00874	-.0284	.08866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5475**	**.06710**	**33.931**	**1.0590**	**.00682**
Stddev	.0326	.00061	1.127	.0439	.00164
%RSD	.91849	.90554	3.3221	4.1442	24.098
#1	3.5245	.06667	33.134	1.0279	.00798
#2	3.5705	.06753	34.728	1.0900	.00566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-E MS@50 Acquired: 10/9/2023 22:22:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5666**	**.44560**	**.09067**	**.46335**	**1.1108**
Stddev	.0228	.00278	.00038	.01244	.0002
%RSD	.63868	.62434	.41481	2.6849	.01685
#1	3.5505	.44363	.09040	.45456	1.1109
#2	3.5827	.44756	.09093	.47215	1.1106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.01718**	**.46399**	F **-.04868**	**.00906**
Stddev	.00	.00025	.00145	.00253	.00025
%RSD	.0027	1.4828	.31204	5.1986	2.7533
#1	25.01	.01700	.46502	-.05047	.00924
#2	25.01	.01736	.46297	-.04689	.00889
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30063**	**.01311**	**.01840**	**1.022**	**.13919**
Stddev	.03681	.00017	.00070	.000	.00110
%RSD	12.243	1.3143	3.7967	.0180	.78966
#1	.27461	.01299	.01790	1.023	.13841
#2	.32666	.01323	.01889	1.022	.13997
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-E MS@50 Acquired: 10/9/2023 22:22:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00801**	**.04106**	**.01667**	**1.004**
Stddev	.00041	.00029	.00040	.001
%RSD	5.1265	.70958	2.3844	.0762
#1	.00772	.04086	.01639	1.004
#2	.00830	.04127	.01695	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5550.7**	**6987.4**	**31945.**	**87638.**
Stddev	8.5	8.1	36.	409.
%RSD	.15276	.11579	.11219	.46718
#1	5544.7	6981.6	31920.	87928.
#2	5556.7	6993.1	31971.	87349.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.641%	98.892%	108.83%	98.290%
Range				

Sample Name: 212960-A-2-F MSD@5 Acquired: 10/9/2023 22:25:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01634**	**37.111**	**.16913**	**.16300**	**.46335**
Stddev	.00111	.807	.00146	.00014	.01438
%RSD	6.8179	2.1737	.86260	.08286	3.1035
#1	.01555	36.541	.17016	.16310	.45318
#2	.01712	37.682	.16809	.16291	.47352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08375**	**110.20**	**.09487**	**-.0698**	**.92028**
Stddev	.00151	2.38	.00023	.0153	.00322
%RSD	1.7995	2.1611	.23908	21.98	.34974
#1	.08268	108.52	.09471	-.0590	.92256
#2	.08481	111.88	.09503	-.0807	.91801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **36.797**	**.57820**	**375.32**	**13.563**	**.10942**
Stddev	.256	.00722	9.32	.071	.00236
%RSD	.69539	1.2479	2.4833	.52650	2.1610
#1	36.616	.57310	368.73	13.512	.10774
#2	36.978	.58330	381.91	13.613	.11109
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 212960-A-2-F MSD@5 Acquired: 10/9/2023 22:25:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.490**	**5.0489**	**.74468**	**5.2966**	**6.8941**
Stddev	.488	.0040	.00693	.0589	.0303
%RSD	.80743	.07908	.93084	1.1117	.44026
#1	60.144	5.0461	.74958	5.2549	6.9156
#2	60.835	5.0517	.73978	5.3382	6.8726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.18**	**.17317**	**5.1892**	F **-.48757**	**.07670**
Stddev	.00	.00027	.0084	.00766	.00121
%RSD	.0015	.15338	.16162	1.5707	1.5713
#1	25.18	.17298	5.1951	-.48216	.07584
#2	25.18	.17336	5.1832	-.49299	.07755
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2133**	**.12808**	**.24759**	**1.171**	**1.6754**
Stddev	.0119	.00139	.00426	.001	.0172
%RSD	.36912	1.0866	1.7208	.1156	1.0288
#1	3.2217	.12906	.24458	1.170	1.6632
#2	3.2049	.12710	.25060	1.172	1.6875
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-F MSD@5 Acquired: 10/9/2023 22:25:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.08472**	**.45831**	**.15535**	**1.067**
Stddev	.00053	.00333	.00174	.002
%RSD	.63035	.72603	1.1193	.1561
#1	.08509	.45596	.15412	1.066
#2	.08434	.46066	.15658	1.068
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5171.2**	**6651.5**	**31439.**	**84551.**
Stddev	1.8	1.8	393.	172.
%RSD	.03572	.02708	1.2492	.20342
#1	5169.9	6650.2	31717.	84429.
#2	5172.5	6652.8	31162.	84672.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.034%	94.138%	107.11%	94.828%
Range				

Sample Name: 212960-A-2-F MSD@50 Acquired: 10/9/2023 22:29:14 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**3.8449**	**.01798**	**.01926**	**.05231**
Stddev	.00047	.2362	.00047	.00006	.00079
%RSD	42.667	6.1433	2.6086	.33656	1.5196
#1	.00077	3.6779	.01765	.01921	.05175
#2	.00143	4.0119	.01832	.01930	.05287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00854**	**11.926**	**.01073**	**-.0223**	**.10709**
Stddev	.00044	.535	.00034	.0346	.00206
%RSD	5.2053	4.4839	3.1440	155.3	1.9281
#1	.00823	11.547	.01049	-.0467	.10563
#2	.00886	12.304	.01097	.0022	.10855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4888**	**.06502**	**40.338**	**1.4219**	**.01186**
Stddev	.0801	.00045	2.196	.0625	.00385
%RSD	1.7842	.68455	5.4446	4.3983	32.470
#1	4.4321	.06470	38.785	1.3777	.01458
#2	4.5454	.06533	41.891	1.4661	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-F MSD@50 Acquired: 10/9/2023 22:29:14 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9986**	**.60959**	**.08865**	**.53106**	**.80933**
Stddev	.1337	.01098	.00166	.01848	.01645
%RSD	1.9108	1.8005	1.8778	3.4795	2.0322
#1	6.9040	.60182	.08747	.51799	.79770
#2	7.0931	.61735	.08983	.54413	.82096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.01938**	**.58701**	F **-.06150**	**.00759**
Stddev	.00	.00101	.01407	.00351	.00067
%RSD	.0050	5.2242	2.3969	5.7059	8.7850
#1	25.01	.01867	.57706	-.05902	.00806
#2	25.02	.02010	.59696	-.06398	.00712
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24957**	**.01475**	**.02616**	**1.022**	**.19424**
Stddev	.00661	.00053	.00129	.003	.00309
%RSD	2.6496	3.5720	4.9242	.2943	1.5932
#1	.24489	.01438	.02525	1.025	.19205
#2	.25424	.01513	.02707	1.020	.19643
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 212960-A-2-F MSD@50 Acquired: 10/9/2023 22:29:14 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00892	.05248	.02008	1.007
Stddev	.00046	.00086	.00016	.001
%RSD	5.1812	1.6342	.81801	.0645
#1	.00859	.05188	.01997	1.007
#2	.00925	.05309	.02020	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5544.7	6963.3	31506.	87961.
Stddev	16.7	13.9	137.	753.
%RSD	.30089	.20031	.43600	.85606
#1	5556.5	6973.1	31604.	88493.
#2	5532.9	6953.4	31409.	87428.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.537%	98.551%	107.34%	98.653%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 22:32:33 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95751**	**50.994**	**1.0189**	**1.0064**	**.99235**
Stddev	.01423	.355	.0061	.0034	.00585
%RSD	1.4856	.69534	.59818	.34200	.58925
#1	.94745	50.743	1.0232	1.0039	.98821
#2	.96757	51.244	1.0145	1.0088	.99648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0099**	**49.040**	**1.0604**	**.9747**	**1.0194**
Stddev	.0044	.145	.0026	.0037	.0006
%RSD	.43419	.29658	.24789	.3766	.05669
#1	1.0068	48.937	1.0586	.9773	1.0190
#2	1.0130	49.143	1.0623	.9721	1.0198
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93315**	**.94210**	**49.512**	**50.380**	**.98102**
Stddev	.02093	.01396	.440	.136	.00560
%RSD	2.2431	1.4820	.88955	.27063	.57091
#1	.91835	.93223	49.201	50.283	.97706
#2	.94795	.95197	49.824	50.476	.98498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 22:32:33 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.916**	**.95351**	**.99802**	**50.456**	**1.0201**
Stddev	.590	.01501	.00143	.186	.0003
%RSD	1.2064	1.5740	.14331	.36846	.03320
#1	48.498	.94290	.99903	50.325	1.0204
#2	49.333	.96413	.99701	50.588	1.0199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.67**	**1.0186**	**24.253**	**1.0167**	**1.0129**
Stddev	.02	.0012	.137	.0008	.0000
%RSD	.0451	.11872	.56452	.08304	.00081
#1	37.65	1.0178	24.350	1.0161	1.0129
#2	37.68	1.0195	24.156	1.0173	1.0129
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.270**	**1.0037**	**1.0135**	**1.500**	**.95026**
Stddev	.107	.0015	.0066	.002	.01545
%RSD	1.0394	.14801	.64724	.1347	1.6264
#1	10.195	1.0048	1.0089	1.499	.93933
#2	10.346	1.0027	1.0182	1.502	.96119
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 22:32:33 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0076**	**.94841**	**.97400**	**1.493**
Stddev	.0060	.01588	.01085	.001
%RSD	.59604	1.6741	1.1137	.0862
#1	1.0118	.93719	.96633	1.492
#2	1.0033	.95964	.98167	1.494
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5208.8**	**6752.3**	**30348.**	**83078.**
Stddev	5.7	13.7	408.	254.
%RSD	.10921	.20252	1.3434	.30567
#1	5212.8	6761.9	30636.	82898.
#2	5204.8	6742.6	30060.	83257.

Sample Name: CCB-7506043 Acquired: 10/9/2023 22:35:45 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00907**	**.00005**	**-.00001**	**-.00020**
Stddev	.00074	.00778	.00083	.00018	.00005
%RSD	334.13	85.701	1668.7	1301.8	26.976
#1	.00030	-.00357	.00064	-.00014	-.00016
#2	-.00074	-.01457	-.00054	.00011	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.03602**	**-.00011**	**-.0411**	**-.00034**
Stddev	.00017	.01898	.00045	.0588	.00005
%RSD	570.03	52.702	395.72	143.2	14.453
#1	.00009	.04944	-.00043	-.0827	-.00030
#2	-.00015	.02259	.00020	.0005	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00026**	**.02602**	**.11852**	**.00037**
Stddev	.00031	.00037	.01893	.01986	.00139
%RSD	37.222	139.60	72.734	16.753	374.25
#1	.00106	.00000	.03941	.13256	.00136
#2	.00062	.00052	.01264	.10448	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 22:35:45 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00599**	**.00019**	**.00128**	**-.01522**	**.00023**
Stddev	.00037	.00007	.00050	.00337	.00024
%RSD	6.1959	37.362	39.096	22.115	104.10
#1	-.00625	.00024	.00092	-.01284	.00006
#2	-.00573	.00014	.00163	-.01760	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00035**	**.00226**	**-.00078**	**.00347**
Stddev	.00	.00029	.00139	.00213	.00098
%RSD	.0038	82.166	61.584	274.87	28.274
#1	25.00	-.00015	.00325	-.00228	.00416
#2	24.99	-.00055	.00128	.00073	.00277
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00358**	**-.00003**	**-.00010**	**.9986**	**.00056**
Stddev	.00460	.00024	.00016	.0036	.00005
%RSD	128.51	696.93	151.79	.3637	9.8129
#1	-.00033	-.00020	.00001	1.001	.00060
#2	-.00683	.00014	-.00021	.9961	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 22:35:45 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.00014**	**-.00039**	**1.000**
Stddev	.00000	.00043	.00026	.001
%RSD	.34771	306.47	65.819	.1431
#1	-.00072	-.00044	-.00021	.9992
#2	-.00072	.00016	-.00057	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5706.8**	**7147.5**	**32387.**	**88056.**
Stddev	6.5	9.5	25.	44.
%RSD	.11368	.13238	.07568	.05036
#1	5702.2	7140.8	32404.	88025.
#2	5711.4	7154.1	32369.	88088.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 22:39:08 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00529**	**.17888**	**.01631**	**.01880**	**.00177**
Stddev	.00004	.00550	.00009	.00009	.00001
%RSD	.83794	3.0738	.55436	.47366	.32763
#1	.00526	.18277	.01625	.01873	.00177
#2	.00533	.17499	.01638	.01886	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**.51389**	**.00188**	**.0163**	**.00373**
Stddev	.00010	.00470	.00021	.0394	.00018
%RSD	5.4028	.91464	10.943	241.9	4.9148
#1	.00183	.51057	.00174	.0441	.00360
#2	.00170	.51722	.00203	-.0116	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**.00961**	**.06065**	**.49295**	**.03129**
Stddev	.00050	.00085	.00468	.02679	.00104
%RSD	9.6716	8.8368	7.7150	5.4351	3.3104
#1	.00551	.01021	.06396	.51190	.03202
#2	.00480	.00901	.05734	.47401	.03056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/9/2023 22:39:08 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18610**	**.00300**	**.00983**	**1.0326**	**.01047**
Stddev	.00292	.00008	.00013	.0144	.00024
%RSD	1.5700	2.5824	1.2807	1.3902	2.2809
#1	.18404	.00305	.00974	1.0225	.01030
#2	.18817	.00294	.00992	1.0428	.01064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01010**	**.19737**	**.02053**	**.02565**
Stddev	.00	.00067	.00369	.00406	.00370
%RSD	.0012	6.6284	1.8716	19.774	14.415
#1	25.00	.00963	.19476	.02340	.02826
#2	25.00	.01057	.19999	.01766	.02303
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49719**	**.00960**	**.00479**	F **1.004**	**.00505**
Stddev	.01223	.00025	.00018	.000	.00017
%RSD	2.4600	2.6453	3.7527	.0205	3.3166
#1	.48854	.00943	.00467	1.004	.00494
#2	.50584	.00978	.00492	1.004	.00517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 22:39:08 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01876**	**.00464**	**.00948**	F **.9995**
Stddev	.00067	.00019	.00013	.0003
%RSD	3.5757	4.1387	1.4047	.0335
#1	.01923	.00478	.00958	.9993
#2	.01828	.00451	.00939	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5558.0**	**6990.1**	**31826.**	**86037.**
Stddev	2.5	9.9	164.	39.
%RSD	.04513	.14094	.51479	.04581
#1	5556.3	6983.2	31942.	86065.
#2	5559.8	6997.1	31710.	86010.

Sample Name: 480-212960-A-3-B@10 Acquired: 10/9/2023 22:42:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**13.513**	**.01817**	**.02580**	**1.9001**
Stddev	.00025	.429	.00050	.00002	.0632
%RSD	53.581	3.1754	2.7254	.06867	3.3238
#1	-.00029	13.210	.01852	.02581	1.8555
#2	-.00065	13.816	.01782	.02578	1.9448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**59.175**	**.00185**	**.0456**	**.36740**
Stddev	.00006	2.024	.00028	.0228	.00249
%RSD	12.292	3.4198	14.883	50.10	.67677
#1	.00041	57.744	.00166	.0294	.36564
#2	.00049	60.606	.00205	.0618	.36916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3525**	**.17943**	**45.508**	**1.5158**	**.02101**
Stddev	.0120	.00236	1.727	.0384	.00209
%RSD	.50911	1.3149	3.7947	2.5368	9.9709
#1	2.3440	.17777	44.287	1.4886	.01953
#2	2.3609	.18110	46.729	1.5430	.02249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-3-B@10 Acquired: 10/9/2023 22:42:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.381**	**1.0627**	**.12743**	**.24454**	**5.0283**
Stddev	.249	.0109	.00048	.00858	.0348
%RSD	1.5215	1.0278	.37297	3.5068	.69197
#1	16.204	1.0550	.12709	.23847	5.0037
#2	16.557	1.0704	.12777	.25060	5.0529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.15**	**.20933**	**.72776**	F **-.03604**	**-.00179**
Stddev	.00	.00182	.00719	.00116	.00185
%RSD	.0112	.87027	.98742	3.2206	102.85
#1	25.15	.20804	.72267	-.03521	-.00049
#2	25.15	.21062	.73284	-.03686	-.00310
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8752**	**.01718**	**.14081**	**1.019**	**.59283**
Stddev	.0626	.00082	.00448	.001	.00397
%RSD	3.3377	4.7617	3.1828	.0878	.66947
#1	1.8310	.01776	.13764	1.019	.59003
#2	1.9195	.01661	.14398	1.020	.59564
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-3-B@10 Acquired: 10/9/2023 22:42:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00172**	**.04335**	**.25896**	**1.010**
Stddev	.00081	.00007	.00391	.001
%RSD	47.067	.16310	1.5082	.0665
#1	.00229	.04330	.25620	1.010
#2	.00114	.04340	.26173	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5412.4**	**6866.5**	**30986.**	**86418.**
Stddev	.8	7.1	89.	513.
%RSD	.01488	.10321	.28611	.59413
#1	5411.8	6861.5	31048.	86781.
#2	5413.0	6871.5	30923.	86055.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.234%	97.181%	105.56%	96.922%
Range				

Sample Name: 480-212960-A-5-B@5 Acquired: 10/9/2023 22:45:53 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**44.670**	**.08838**	**.02451**	**2.0167**
Stddev	.00114	1.103	.00152	.00046	.0422
%RSD	132.11	2.4689	1.7207	1.8615	2.0922
#1	-.00166	43.890	.08730	.02419	1.9869
#2	-.00006	45.450	.08945	.02484	2.0466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**64.699**	**.00674**	**-.1057**	**3.6650**
Stddev	.00008	1.696	.00084	.0471	.0212
%RSD	32.271	2.6222	12.509	44.52	.57896
#1	.00032	63.499	.00734	-.0724	3.6800
#2	.00020	65.898	.00615	-.1390	3.6500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **64.671**	**2.4074**	**312.40**	**3.3148**	**.03426**
Stddev	.497	.0100	8.11	.0234	.00040
%RSD	.76901	.41465	2.5953	.70607	1.1728
#1	65.022	2.4004	306.67	3.2982	.03398
#2	64.319	2.4145	318.13	3.3313	.03454
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 480-212960-A-5-B@5 Acquired: 10/9/2023 22:45:53 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.604**	**7.6556**	**4.7146**	**.53728**	F **46.771**
Stddev	.097	.0501	.0394	.00398	.288
%RSD	.49532	.65395	.83613	.74008	.61575
#1	19.535	7.6202	4.7424	.53447	46.974
#2	19.672	7.6910	4.6867	.54010	46.567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.24**	**.21333**	**1.1950**	F **-.91149**	**.05107**
Stddev	.00	.00187	.0049	.00464	.00357
%RSD	.0048	.87798	.40933	.50883	6.9849
#1	25.24	.21465	1.1984	-.91477	.04854
#2	25.24	.21200	1.1915	-.90821	.05359
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0972**	**.07809**	**.09428**	**1.144**	**1.1623**
Stddev	.0280	.00116	.00238	.015	.0065
%RSD	.90576	1.4835	2.5256	1.264	.55938
#1	3.0774	.07891	.09260	1.134	1.1577
#2	3.1170	.07727	.09596	1.154	1.1669
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-5-B@5 Acquired: 10/9/2023 22:45:53 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00975**	**.29036**	**.25289**	**1.058**
Stddev	.00017	.00073	.00003	.001
%RSD	1.7907	.25082	.01303	.1161
#1	.00962	.28984	.25292	1.057
#2	.00987	.29087	.25287	1.059
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5140.0**	**6506.9**	**30960.**	**84878.**
Stddev	15.3	10.3	175.	345.
%RSD	.29692	.15850	.56388	.40693
#1	5129.2	6499.6	31083.	85122.
#2	5150.8	6514.2	30836.	84634.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.491%	92.092%	105.48%	95.195%
Range				

Sample Name: 480-212960-A-5-B@100 Acquired: 10/9/2023 22:49:29 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**2.1903**	**.00533**	**.00096**	**.09991**
Stddev	.00013	.1506	.00042	.00052	.00019
%RSD	32.217	6.8773	7.8476	54.134	.19279
#1	-.00049	2.0838	.00504	.00133	.09978
#2	-.00031	2.2968	.00563	.00059	.10005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**3.2902**	**.00001**	**-.0265**	**.17794**
Stddev	.00007	.2862	.00033	.0077	.00041
%RSD	60.442	8.6973	2980.8	29.02	.22830
#1	-.00017	3.0878	-.00022	-.0319	.17823
#2	-.00007	3.4925	.00025	-.0211	.17765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4439**	**.11577**	**15.701**	**.13432**	**.00281**
Stddev	.0143	.00010	.674	.06501	.00004
%RSD	.41574	.08556	4.2896	48.395	1.3489
#1	3.4337	.11570	15.225	.08836	.00278
#2	3.4540	.11584	16.178	.18029	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-5-B@100 Acquired: 10/9/2023 22:49:29 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99675**	**.39932**	**.23350**	**.00743**	**2.3190**
Stddev	.00414	.00205	.00013	.00244	.0025
%RSD	.41516	.51214	.05647	32.763	.10848
#1	.99382	.39787	.23360	.00915	2.3207
#2	.99967	.40077	.23341	.00571	2.3172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.01002**	**.05226**	F **-.04844**	**.00323**
Stddev	.00	.00009	.00091	.00097	.00206
%RSD	.0010	.92823	1.7367	2.0001	63.676
#1	25.00	.00995	.05162	-.04912	.00178
#2	25.00	.01008	.05290	-.04775	.00469
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10335**	**.00371**	**.00478**	**1.009**	**.05758**
Stddev	.02016	.00031	.00047	.001	.00034
%RSD	19.507	8.2699	9.9080	.0658	.59718
#1	.08910	.00349	.00445	1.008	.05783
#2	.11761	.00393	.00512	1.009	.05734
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-5-B@100 Acquired: 10/9/2023 22:49:29 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**.01419**	**.01361**	**1.003**
Stddev	.00068	.00080	.00013	.001
%RSD	103.63	5.6096	.98943	.0857
#1	.00114	.01363	.01351	1.004
#2	.00018	.01475	.01370	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5603.6**	**7046.7**	**32128.**	**87704.**
Stddev	12.2	11.3	58.	483.
%RSD	.21733	.16057	.18099	.55036
#1	5612.3	7054.7	32087.	88046.
#2	5595.0	7038.7	32169.	87363.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.564%	99.732%	109.46%	98.365%
Range				

Sample Name: 480-212960-A-22-B@5 Acquired: 10/9/2023 22:52:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**31.317**	**.02443**	**.01951**	**.25931**
Stddev	.00021	.940	.00146	.00050	.00028
%RSD	12.797	3.0025	5.9900	2.5445	.10630
#1	-.00176	30.652	.02340	.01916	.25950
#2	-.00147	31.982	.02547	.01986	.25911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**6.6658**	**.00250**	**.0514**	**3.7697**
Stddev	.00002	.2416	.00013	.0033	.0022
%RSD	1.5290	3.6244	5.3477	6.370	.05856
#1	.00120	6.4949	.00241	.0490	3.7681
#2	.00122	6.8366	.00260	.0537	3.7712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0065**	**.13436**	**67.140**	**6.2848**	**.04087**
Stddev	.0018	.00041	2.380	.1483	.00128
%RSD	.09032	.30481	3.5449	2.3590	3.1249
#1	2.0078	.13407	65.457	6.1799	.04177
#2	2.0053	.13465	68.823	6.3896	.03997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-22-B@5 Acquired: 10/9/2023 22:52:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9337**	**1.5263**	**.21274**	**.19387**	**4.4379**
Stddev	.0188	.0051	.00057	.00675	.0020
%RSD	.23762	.33514	.26957	3.4808	.04502
#1	7.9470	1.5300	.21315	.19865	4.4365
#2	7.9204	1.5227	.21234	.18910	4.4393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.44**	**.09731**	**.36089**	F **-.02950**	**.00971**
Stddev	.00	.00054	.00023	.00077	.00070
%RSD	.0000	.55419	.06335	2.6117	7.1837
#1	25.44	.09770	.36105	-.03005	.01020
#2	25.44	.09693	.36073	-.02896	.00922
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8407**	**.01774**	**.03856**	**1.036**	**.45241**
Stddev	.0606	.00069	.00123	.001	.00077
%RSD	2.1314	3.8930	3.1878	.0721	.16932
#1	2.7978	.01823	.03770	1.037	.45296
#2	2.8835	.01725	.03943	1.036	.45187
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-22-B@5 Acquired: 10/9/2023 22:52:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00522**	**.08569**	**.11776**	**1.008**
Stddev	.00004	.00013	.00027	.000
%RSD	.75053	.15687	.23266	.0226
#1	-.00519	.08560	.11756	1.008
#2	-.00525	.08579	.11795	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5441.9**	**7078.8**	**31658.**	**89171.**
Stddev	4.8	7.1	273.	675.
%RSD	.08750	.10091	.86192	.75659
#1	5438.5	7073.7	31465.	89648.
#2	5445.3	7083.8	31851.	88694.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.747%	100.19%	107.86%	100.01%
Range				

Sample Name: 480-212960-A-40-B@10 Acquired: 10/9/2023 22:56:03 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00079**	**28.285**	k **.01835**	**.02031**	**.19585**
Stddev	.00001	.873	.00078	.00034	.00087
%RSD	1.2481	3.0882	4.2703	1.6911	.44445
#1	k -.00080	27.667	k .01780	.02007	.19523
#2	-.00078	28.902	.01891	.02055	.19646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**3.7737**	k **.00067**	**.0171**	k **.05883**
Stddev	.00002	.0668	.00010	.0017	.00025
%RSD	1.5003	1.7702	14.590	9.656	.42021
#1	.00111	3.7265	k .00074	.0183	k .05900
#2	.00113	3.8210	.00060	.0159	.05865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.11694**	**.07687**	**41.374**	**5.9929**	**.03235**
Stddev	.00037	.00041	.969	.1153	.00413
%RSD	.31651	.52946	2.3422	1.9239	12.769
#1	k .11720	.07658	40.688	5.9113	.03527
#2	.11668	.07716	42.059	6.0744	.02943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-40-B@10 Acquired: 10/9/2023 22:56:03 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **8.2962**	k **1.1589**	**.02205**	**.10316**	k **.15588**
Stddev	.0377	.0019	.00027	.00248	.00024
%RSD	.45403	.16511	1.2116	2.4008	.15705
#1	k 8.2696	k 1.1602	.02186	.10491	k .15605
#2	8.3229	1.1575	.02224	.10140	.15570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.33**	k **.03945**	**.22194**	k **-.00051**	k **-.00066**
Stddev	.00	.00477	.00196	.00109	.00242
%RSD	.0078	12.084	.88302	211.46	366.61
#1	25.33	k .03608	.22056	k .00025	k .00105
#2	25.33	.04282	.22333	-.00128	-.00237
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **1.8203**	**.01153**	**.02686**	**1.024**	k **.20259**
Stddev	.0113	.00001	.00056	.001	.00028
%RSD	.62005	.09063	2.0871	.0778	.13903
#1	k 1.8283	.01152	.02646	1.024	k .20279
#2	1.8123	.01153	.02726	1.025	.20239
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-A-40-B@10 Acquired: 10/9/2023 22:56:03 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	k .00021	k .05087	k .08668	1.006
Stddev	.00140	.00046	.00041	.001
%RSD	668.27	.91177	.47772	.1135
#1	k -.00078	k .05120	k .08638	1.005
#2	.00120	.05054	.08697	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5442.1	7028.4	31544.	87311.
Stddev	6.1	3.6	362.	169.
%RSD	.11246	.05135	1.1472	.19389
#1	5437.8	7030.9	31288.	87430.
#2	5446.4	7025.8	31800.	87191.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.751%	99.472%	107.47%	97.923%
Range				

Sample Name: rinse Acquired: 10/9/2023 22:59:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.07886**	**-.00100**	**-.00036**	**-.00027**
Stddev	.00035	.01515	.00056	.00024	.00006
%RSD	57.867	19.209	55.973	65.321	23.861
#1	-.00085	.08957	-.00061	-.00053	-.00031
#2	-.00036	.06815	-.00140	-.00019	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00291**	**-.00026**	**-.0107**	**-.00043**
Stddev	.00012	.01033	.00001	.0158	.00014
%RSD	62.079	354.68	4.9143	148.0	33.286
#1	-.00028	.00439	-.00026	.0005	-.00032
#2	-.00011	-.01022	-.00025	-.0218	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00063**	**.00561**	**.00000**	**-.00049**
Stddev	.00050	.00110	.01193	.05429	.00276
%RSD	78.564	175.87	212.60	8935300.	567.39
#1	.00028	.00141	.01405	-.03839	-.00244
#2	.00099	-.00015	-.00283	.03839	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 22:59:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00936**	**-.00008**	**.00012**	**-.03800**	**.00019**
Stddev	.00037	.00016	.00004	.01192	.00002
%RSD	3.9445	200.88	29.643	31.374	11.045
#1	-.00962	-.00019	.00010	-.02957	.00020
#2	-.00910	.00003	.00015	-.04643	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**-.00032**	**.00066**	**.00035**	**.00198**
Stddev	.00	.00149	.00056	.00019	.00060
%RSD	.0028	470.87	85.686	54.516	30.300
#1	24.99	.00074	.00026	.00049	.00240
#2	24.99	-.00137	.00105	.00022	.00155
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**.00051**	**-.00032**	**1.007**	**.00002**
Stddev	.00153	.00006	.00006	.003	.00002
%RSD	52.243	11.816	17.676	.2625	80.946
#1	.00400	.00055	-.00036	1.005	.00001
#2	.00184	.00046	-.00028	1.009	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 22:59:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00072**	**.00126**	**1.000**
Stddev	.00049	.00014	.00017	.001
%RSD	81.824	19.891	13.399	.0458
#1	-.00025	-.00062	.00114	.9999
#2	-.00095	-.00082	.00138	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5541.5**	**6879.7**	**30927.**	**86754.**
Stddev	8.4	28.5	225.	420.
%RSD	.15223	.41389	.72792	.48409
#1	5535.5	6859.6	31086.	87051.
#2	5547.4	6899.9	30768.	86457.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.481%	97.369%	105.36%	97.299%
Range				

Sample Name: MB 480-684696/1-A Acquired: 10/9/2023 23:02:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.03561**	**-.00267**	**-.00049**	**-.00032**
Stddev	.00065	.03640	.00099	.00033	.00003
%RSD	96.627	102.23	37.059	67.351	8.2204
#1	-.00021	-.06135	-.00197	-.00072	-.00034
#2	-.00113	-.00987	-.00336	-.00025	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00008**	**.00003**	**.0043**	**-.00048**
Stddev	.00008	.00255	.00008	.0187	.00015
%RSD	38.435	3356.4	327.26	432.6	31.521
#1	-.00026	-.00188	.00008	-.0089	-.00037
#2	-.00015	.00173	-.00003	.0175	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00005**	**-.00901**	**.00170**	**-.00081**
Stddev	.00015	.00106	.00008	.03467	.00022
%RSD	44.523	2244.8	.91954	2037.4	27.506
#1	.00024	-.00070	-.00895	-.02282	-.00065
#2	.00046	.00080	-.00907	.02622	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-684696/1-A Acquired: 10/9/2023 23:02:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01252**	**.00003**	**-.00047**	**-.03145**	**-.00018**
Stddev	.00109	.00003	.00006	.00028	.00024
%RSD	8.6743	98.344	12.949	.87879	132.00
#1	-.01329	.00001	-.00051	-.03125	-.00001
#2	-.01175	.00006	-.00043	-.03164	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00105**	**.00661**	**.00054**	**.00083**
Stddev	.00	.00005	.00271	.00073	.00146
%RSD	.0013	4.2904	41.078	134.19	175.37
#1	25.00	-.00108	.00853	.00106	-.00020
#2	24.99	-.00102	.00469	.00003	.00186
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01251**	**-.00045**	**-.00022**	**1.007**	**-.00020**
Stddev	.01098	.00002	.00000	.004	.00012
%RSD	87.757	4.5748	1.4130	.4059	60.749
#1	-.02028	-.00044	-.00022	1.004	-.00029
#2	-.00475	-.00047	-.00022	1.009	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-684696/1-A Acquired: 10/9/2023 23:02:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00019**	**-.00059**	**.9995**
Stddev	.00161	.00081	.00004	.0005
%RSD	430.27	426.90	7.2724	.0509
#1	.00151	.00038	-.00062	.9991
#2	-.00076	-.00076	-.00056	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5556.5**	**6976.9**	**30732.**	**87392.**
Stddev	2.6	.7	256.	479.
%RSD	.04683	.01025	.83436	.54758
#1	5554.7	6976.4	30914.	87731.
#2	5558.4	6977.4	30551.	87054.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.743%	98.744%	104.70%	98.015%
Range				

Sample Name: LCS 480-684696/2-A Acquired: 10/9/2023 23:06:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04614**	**10.365**	**.20961**	**.20061**	**.20558**
Stddev	.00062	.285	.00085	.00059	.00110
%RSD	1.3530	2.7524	.40746	.29610	.53405
#1	.04658	10.164	.20900	.20019	.20480
#2	.04570	10.567	.21021	.20103	.20635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20745**	**9.9709**	**.21531**	**.0130**	**.21406**
Stddev	.00528	.2796	.00084	.0028	.00072
%RSD	2.5459	2.8044	.39210	21.65	.33420
#1	.20372	9.7732	.21591	.0149	.21456
#2	.21119	10.169	.21472	.0110	.21355
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19597**	**.19016**	**10.139**	**10.380**	**.20008**
Stddev	.00171	.00140	.249	.193	.00388
%RSD	.87132	.73471	2.4519	1.8633	1.9390
#1	.19476	.18917	9.9635	10.244	.19733
#2	.19717	.19115	10.315	10.517	.20282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-684696/2-A Acquired: 10/9/2023 23:06:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9222**	**.20501**	**.20506**	**10.303**	**.20796**
Stddev	.0628	.00125	.00006	.188	.00020
%RSD	.63329	.61009	.02682	1.8248	.09755
#1	9.8777	.20412	.20503	10.170	.20782
#2	9.9666	.20589	.20510	10.436	.20810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**.21100**	**9.9915**	F **.23107**	**.19990**
Stddev	.00	.00050	.0442	.00030	.00162
%RSD	.0019	.23821	.44267	.12952	.80881
#1	24.99	.21135	9.9603	.23086	.19876
#2	24.99	.21064	10.023	.23129	.20104
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.263**	F **.23241**	**.20631**	**1.007**	**.20048**
Stddev	.227	.00050	.00538	.003	.00150
%RSD	2.2069	.21707	2.6090	.2475	.75026
#1	10.103	.23277	.20250	1.009	.19941
#2	10.423	.23205	.21011	1.005	.20154
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-684696/2-A Acquired: 10/9/2023 23:06:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21025**	**.19685**	**.19364**	**1.001**
Stddev	.00003	.00131	.00265	.001
%RSD	.01212	.66419	1.3690	.0493
#1	.21027	.19593	.19177	1.001
#2	.21023	.19778	.19552	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5465.5**	**6937.7**	**30908.**	**86308.**
Stddev	7.5	20.8	96.	736.
%RSD	.13713	.30021	.30920	.85323
#1	5470.8	6952.4	30975.	86829.
#2	5460.2	6923.0	30840.	85787.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.158%	98.189%	105.30%	96.799%
Range				

Sample Name: 480-212925-C-1-D Acquired: 10/9/2023 23:09:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**7.7895**	**-.00057**	**.28510**	**.00773**
Stddev	.00020	.0888	.00048	.00025	.00003
%RSD	234.95	1.1397	83.700	.08665	.37133
#1	-.00006	7.7268	-.00090	.28527	.00771
#2	.00023	7.8523	-.00023	.28493	.00775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**253.75**	**.00141**	**.0082**	**.12154**
Stddev	.00004	4.84	.00041	.0007	.00041
%RSD	1.6986	1.9066	28.845	8.384	.33953
#1	.00207	250.33	.00112	.0077	.12183
#2	.00212	257.17	.00169	.0087	.12125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00229**	**.00979**	**.12062**	**4.1526**	**.14808**
Stddev	.00049	.00038	.00336	.0656	.00202
%RSD	21.480	3.9284	2.7850	1.5796	1.3618
#1	.00195	.00952	.12299	4.1062	.14665
#2	.00264	.01006	.11824	4.1990	.14950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-1-D Acquired: 10/9/2023 23:09:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**69.505**	**.56261**	**.00018**	**14.800**	**.25438**
Stddev	.408	.00311	.00020	.043	.00121
%RSD	.58763	.55218	106.09	.28851	.47721
#1	69.216	.56041	.00005	14.830	.25524
#2	69.794	.56481	.00032	14.770	.25352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00055**	F **314.99**	**-.00217**	**-.00291**
Stddev	.00	.00002	.21	.00184	.00213
%RSD	.0020	3.6540	.06627	84.500	73.259
#1	25.00	-.00054	315.14	-.00087	-.00442
#2	25.00	-.00056	314.84	-.00347	-.00140
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2789**	**-.00031**	**.95203**	**1.008**	**.00243**
Stddev	.0586	.00003	.00846	.003	.00005
%RSD	.63160	9.6254	.88911	.3029	2.1093
#1	9.2375	-.00029	.94605	1.010	.00247
#2	9.3204	-.00034	.95802	1.006	.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-1-D Acquired: 10/9/2023 23:09:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00055**	**-.00086**	**.24010**	**.9994**
Stddev	.00025	.00009	.00263	.0004
%RSD	46.019	10.755	1.0972	.0353
#1	.00037	-.00079	.23824	.9997
#2	.00072	-.00093	.24196	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5226.4**	**6865.7**	**30756.**	**86363.**
Stddev	13.5	.9	124.	357.
%RSD	.25750	.01249	.40278	.41297
#1	5216.9	6865.1	30844.	86111.
#2	5235.9	6866.3	30669.	86615.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.995%	97.169%	104.78%	96.860%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 23:12:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96026**	**50.285**	**1.0095**	**1.0005**	**.98265**
Stddev	.00310	.126	.0008	.0000	.00182
%RSD	.32266	.25109	.07675	.00279	.18570
#1	.96245	50.195	1.0100	1.0005	.98136
#2	.95807	50.374	1.0089	1.0006	.98394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99896**	**48.877**	**1.0507**	**.9761**	**1.0152**
Stddev	.00512	.149	.0050	.0364	.0001
%RSD	.51250	.30577	.47791	3.725	.01039
#1	.99534	48.771	1.0471	.9504	1.0153
#2	1.0026	48.982	1.0542	1.002	1.0151
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93331**	**.94580**	**49.351**	**49.847**	**.97521**
Stddev	.00405	.00137	.192	.210	.00669
%RSD	.43395	.14480	.38900	.42118	.68610
#1	.93618	.94677	49.215	49.699	.97048
#2	.93045	.94483	49.486	49.996	.97994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 23:12:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.071**	**.95707**	**.99304**	**49.785**	**1.0162**
Stddev	.008	.00102	.00416	.162	.0003
%RSD	.01727	.10702	.41850	.32613	.03154
#1	49.077	.95779	.99598	49.671	1.0164
#2	49.065	.95634	.99010	49.900	1.0160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.57**	**1.0147**	**24.295**	**1.0098**	**1.0077**
Stddev	.01	.0015	.008	.0047	.0003
%RSD	.0169	.14416	.03185	.46755	.02579
#1	37.56	1.0137	24.301	1.0065	1.0079
#2	37.57	1.0158	24.290	1.0132	1.0075
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.223**	**.99933**	**1.0024**	**1.493**	**.95297**
Stddev	.097	.00101	.0064	.007	.00088
%RSD	.94553	.10099	.63749	.4428	.09223
#1	10.155	1.0000	.99786	1.488	.95359
#2	10.291	.99861	1.0069	1.498	.95235
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 23:12:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0026**	**.95411**	**.97677**	**1.489**
Stddev	.0044	.00309	.00301	.003
%RSD	.43837	.32405	.30806	.1672
#1	.99953	.95630	.97890	1.488
#2	1.0057	.95192	.97464	1.491
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5209.3**	**6763.4**	**30126.**	**83472.**
Stddev	9.5	11.9	75.	268.
%RSD	.18330	.17601	.24920	.32114
#1	5202.6	6755.0	30073.	83283.
#2	5216.1	6771.8	30179.	83662.

Sample Name: CCB-7506043 Acquired: 10/9/2023 23:15:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00373**	**.00235**	**-.00004**	**-.00017**
Stddev	.00045	.02570	.00007	.00029	.00009
%RSD	387.28	689.00	2.9357	773.60	56.449
#1	-.00044	-.02190	.00240	.00017	-.00010
#2	.00020	.01444	.00230	-.00025	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.02611**	**-.00056**	**.0010**	**-.00026**
Stddev	.00000	.02940	.00002	.0384	.00018
%RSD	165.81	112.61	2.8941	3768.	71.527
#1	.00000	.00532	-.00057	.0282	-.00013
#2	-.00001	.04690	-.00054	-.0261	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**-.00104**	**.02326**	**.09273**	**-.00344**
Stddev	.00098	.00014	.02338	.01260	.00198
%RSD	58.719	13.697	100.54	13.585	57.628
#1	.00237	-.00114	.00672	.10164	-.00204
#2	.00098	-.00094	.03979	.08382	-.00484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 23:15:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00484**	**.00027**	**.00148**	**-.00509**	**.00072**
Stddev	.00856	.00029	.00021	.00239	.00049
%RSD	176.75	106.77	13.972	46.898	68.594
#1	.00121	.00048	.00134	-.00340	.00107
#2	-.01090	.00007	.00163	-.00678	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00054**	**.04100**	**.00061**	**.00067**
Stddev	.00	.00077	.00832	.00127	.00029
%RSD	.0009	141.13	20.290	207.51	43.382
#1	25.00	-.00000	.04688	.00151	.00047
#2	25.00	-.00109	.03511	-.00029	.00088
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00901**	**-.00005**	**-.00006**	**1.004**	**.00017**
Stddev	.01758	.00018	.00016	.000	.00011
%RSD	195.20	388.21	278.59	.0254	63.210
#1	-.00343	-.00017	-.00017	1.004	.00024
#2	.02144	.00008	.00006	1.003	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 23:15:58 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00001**	**-.00050**	**.9996**
Stddev	.00003	.00046	.00000	.0009
%RSD	11.483	4379.6	.68709	.0905
#1	-.00028	-.00032	-.00049	.9990
#2	-.00024	.00034	-.00050	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5702.6**	**7131.5**	**31483.**	**88273.**
Stddev	4.4	15.0	21.	14.
%RSD	.07682	.20974	.06626	.01531
#1	5699.5	7121.0	31498.	88283.
#2	5705.7	7142.1	31468.	88264.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 23:19:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00526**	**.15577**	**.01420**	**.01920**	**.00178**
Stddev	.00058	.01859	.00195	.00001	.00010
%RSD	10.990	11.933	13.704	.03057	5.4399
#1	.00485	.14263	.01282	.01919	.00171
#2	.00567	.16891	.01557	.01920	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**.48224**	**.00203**	**.0128**	**.00379**
Stddev	.00014	.01463	.00013	.0432	.00023
%RSD	8.1187	3.0342	6.2978	337.9	6.0254
#1	.00163	.47189	.00194	-.0178	.00363
#2	.00182	.49259	.00212	.0434	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **.00545**	**.00969**	**.04344**	**.52783**	**.03185**
Stddev	.00002	.00074	.00160	.02715	.00182
%RSD	.31675	7.6716	3.6930	5.1439	5.7188
#1	.00546	.01022	.04231	.50863	.03056
#2	.00544	.00917	.04457	.54703	.03313
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.00400				
Range	30.000%				

Sample Name: CCVL-7610998 Acquired: 10/9/2023 23:19:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18992**	**.00303**	**.00989**	**1.0029**	**.01105**
Stddev	.00671	.00008	.00011	.0463	.00052
%RSD	3.5350	2.7651	1.1243	4.6183	4.6607
#1	.18517	.00297	.00981	.97019	.01069
#2	.19467	.00309	.00997	1.0357	.01142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00861**	**.22249**	**.02150**	**.02272**
Stddev	.00	.00047	.00133	.00077	.00208
%RSD	.0044	5.4599	.59975	3.5858	9.1458
#1	25.00	.00827	.22155	.02204	.02419
#2	25.00	.00894	.22344	.02095	.02125
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49053**	**.00941**	**.00467**	F **1.004**	**.00469**
Stddev	.04238	.00037	.00012	.002	.00008
%RSD	8.6398	3.9399	2.5271	.2153	1.6475
#1	.46056	.00915	.00458	1.002	.00464
#2	.52050	.00968	.00475	1.005	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 23:19:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01928**	**.00464**	**.00966**	F **.9993**
Stddev	.00143	.00007	.00035	.0005
%RSD	7.4095	1.5930	3.6098	.0500
#1	.01827	.00469	.00941	.9989
#2	.02029	.00459	.00991	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5542.5**	**6939.4**	**31154.**	**86588.**
Stddev	5.0	15.7	625.	1205.
%RSD	.08948	.22584	2.0058	1.3913
#1	5546.0	6950.5	31595.	87439.
#2	5539.0	6928.3	30712.	85736.

Sample Name: 480-212925-C-2-B Acquired: 10/9/2023 23:22:43 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.02302**	**-.00125**	**-.00000**	**-.00005**
Stddev	.00035	.01776	.00040	.00009	.00019
%RSD	77.145	77.153	32.063	3370.7	357.35
#1	-.00069	-.01046	-.00154	.00006	-.00019
#2	-.00020	-.03558	-.00097	-.00007	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02057**	**.00015**	**-.0102**	**-.00052**
Stddev	.00007	.00714	.00035	.0207	.00024
%RSD	37.203	34.725	240.14	202.4	45.832
#1	-.00014	.02562	-.00010	.0044	-.00035
#2	-.00023	.01552	.00039	-.0249	-.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00300**	**.00052**	**.00324**	**-.00027**	**.00062**
Stddev	.00295	.00086	.00546	.05114	.00383
%RSD	98.329	164.87	168.83	18698.	619.41
#1	.00091	.00113	.00710	-.03643	.00333
#2	.00509	-.00009	-.00063	.03589	-.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-B Acquired: 10/9/2023 23:22:43 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00163**	**.00078**	**-.00044**	**-.02491**	**.00014**
Stddev	.01484	.00058	.00014	.00266	.00006
%RSD	911.18	74.117	32.159	10.679	44.183
#1	-.01213	.00037	-.00054	-.02303	.00018
#2	.00887	.00119	-.00034	-.02679	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00114**	**.02483**	**.00233**	**.00013**
Stddev	.00	.00039	.00478	.00161	.00475
%RSD	.0016	34.770	19.252	69.350	3552.0
#1	25.00	-.00086	.02821	.00347	-.00322
#2	25.00	-.00141	.02145	.00119	.00349
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00841**	**-.00058**	**-.00011**	**1.008**	**-.00004**
Stddev	.00145	.00075	.00003	.000	.00026
%RSD	17.260	129.01	28.976	.0152	618.39
#1	.00738	-.00005	-.00009	1.007	-.00022
#2	.00944	-.00112	-.00013	1.008	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-B Acquired: 10/9/2023 23:22:43 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00086**	**-.00048**	**.00285**	**.9990**
Stddev	.00078	.00012	.00027	.0005
%RSD	91.042	25.968	9.6374	.0466
#1	-.00141	-.00057	.00265	.9994
#2	-.00031	-.00039	.00304	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5585.3**	**7002.8**	**30693.**	**88858.**
Stddev	2.1	8.5	472.	775.
%RSD	.03772	.12076	1.5376	.87191
#1	5583.8	6996.8	30359.	89406.
#2	5586.8	7008.8	31027.	88310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.245%	99.110%	104.57%	99.659%
Range				

Sample Name: 480-212925-C-2-BSD@5 Acquired: 10/9/2023 23:26:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.05860**	**.00561**	**-.00263**	**-.00037**
Stddev	.00029	.00139	.00053	.00021	.00003
%RSD	68.788	2.3781	9.4422	7.8299	7.9360
#1	.00062	-.05761	.00523	-.00249	-.00039
#2	.00021	-.05958	.00598	-.00278	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00605**	**.00136**	**-.0099**	**.00015**
Stddev	.00005	.01429	.00012	.0066	.00012
%RSD	47.047	236.22	8.8713	67.14	82.235
#1	-.00007	-.01615	.00127	-.0052	.00006
#2	-.00014	.00405	.00144	-.0146	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00287**	**-.01186**	**-.12462**	**-.00002**
Stddev	.00023	.00073	.00022	.01128	.00231
%RSD	87.071	25.519	1.8716	9.0513	14336.
#1	.00042	.00339	-.01170	-.11665	.00162
#2	.00010	.00235	-.01201	-.13260	-.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-BSD@5 Acquired: 10/9/2023 23:26:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01157**	**-.00037**	**-.00100**	**-.03081**	**-.00113**
Stddev	.00068	.00003	.00010	.00221	.00019
%RSD	5.8826	9.2722	10.022	7.1881	16.567
#1	-.01109	-.00039	-.00093	-.03237	-.00126
#2	-.01206	-.00035	-.00107	-.02924	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**.00081**	**-.01671**	**-.00672**	**.00173**
Stddev	.00	.00076	.00085	.00073	.00136
%RSD	.0018	94.674	5.0813	10.805	78.564
#1	24.99	.00027	-.01731	-.00621	.00077
#2	24.99	.00135	-.01611	-.00724	.00270
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03263**	**.00063**	**-.00042**	**1.004**	**.00141**
Stddev	.01015	.00004	.00007	.001	.00011
%RSD	31.095	6.2244	16.942	.1079	7.6694
#1	-.03980	.00065	-.00037	1.003	.00133
#2	-.02545	.00060	-.00047	1.005	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-BSD@5 Acquired: 10/9/2023 23:26:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00202**	**.00048**	**-.00041**	**1.001**
Stddev	.00010	.00020	.00004	.000
%RSD	4.7753	41.140	9.5901	.0350
#1	.00209	.00063	-.00038	1.001
#2	.00195	.00034	-.00044	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11116.**	**13744.**	**67225.**	**193850.**
Stddev	1117.	1387.	10242.	25887.
%RSD	10.049	10.089	15.236	13.354
#1	10326.	12764.	74467.	212160.
#2	11906.	14725.	59982.	175550.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	193.54%	194.52%	229.03%	217.41%
Range				

Sample Name: 480-212925-C-2-BPDS Acquired: 10/9/2023 23:29:35 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04506**	**9.6899**	**.21198**	**.18886**	**.19185**
Stddev	.00116	.3173	.00218	.00004	.00236
%RSD	2.5634	3.2749	1.0277	.01888	1.2282
#1	.04424	9.4656	.21044	.18889	.19018
#2	.04587	9.9143	.21352	.18884	.19351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21005**	**10.062**	**.21778**	**-.0098**	**.21561**
Stddev	.00665	.334	.00050	.0125	.00002
%RSD	3.1663	3.3182	.23174	126.8	.00830
#1	.20534	9.8254	.21813	-.0010	.21560
#2	.21475	10.298	.21742	-.0186	.21562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19652**	**.18878**	**10.252**	**9.7749**	**.18602**
Stddev	.00319	.00246	.299	.1939	.00752
%RSD	1.6256	1.3023	2.9172	1.9839	4.0441
#1	.19427	.18704	10.040	9.6378	.18070
#2	.19878	.19051	10.463	9.9120	.19134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-BPDS Acquired: 10/9/2023 23:29:35 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9496**	**.20524**	**.20672**	**9.6726**	**.21113**
Stddev	.1026	.00211	.00054	.2371	.00041
%RSD	1.0307	1.0257	.26111	2.4514	.19295
#1	9.8771	.20376	.20710	9.5049	.21142
#2	10.022	.20673	.20633	9.8402	.21084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.21467**	**9.9452**	**.22896**	**.20337**
Stddev	.00	.00066	.0048	.00049	.00157
%RSD	.0007	.30535	.04860	.21488	.77264
#1	25.00	.21513	9.9417	.22931	.20448
#2	25.00	.21420	9.9486	.22862	.20226
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.320**	**.20503**	**.19305**	**1.005**	**.19939**
Stddev	.298	.00051	.00571	.005	.00183
%RSD	2.8890	.24720	2.9566	.4550	.92005
#1	10.109	.20539	.18901	1.002	.19809
#2	10.531	.20467	.19708	1.009	.20068
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-BPDS Acquired: 10/9/2023 23:29:35 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21148**	**.19699**	**.19641**	**1.001**
Stddev	.00030	.00317	.00007	.000
%RSD	.14118	1.6096	.03570	.0306
#1	.21127	.19475	.19646	1.001
#2	.21169	.19924	.19636	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5480.6**	**6941.4**	**31340.**	**86440.**
Stddev	.0	.6	54.	926.
%RSD	.00051	.00901	.17292	1.0707
#1	5480.7	6940.9	31378.	87095.
#2	5480.6	6941.8	31301.	85786.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.422%	98.241%	106.77%	96.947%
Range				

Sample Name: 480-212925-C-2-C MS Acquired: 10/9/2023 23:32:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04556**	**10.106**	**.20763**	**.19965**	**.20403**
Stddev	.00034	.233	.00073	.00059	.00197
%RSD	.74873	2.3068	.34986	.29755	.96311
#1	.04532	9.9407	.20814	.20007	.20264
#2	.04580	10.270	.20712	.19923	.20542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20380**	**9.8155**	**.21377**	**-.0040**	**.21260**
Stddev	.00377	.1920	.00134	.0064	.00038
%RSD	1.8523	1.9560	.62597	157.7	.18019
#1	.20113	9.6797	.21282	-.0085	.21233
#2	.20647	9.9512	.21471	.0005	.21287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19437**	**.18938**	**9.9638**	**10.219**	**.20054**
Stddev	.00127	.00188	.2314	.121	.00598
%RSD	.65173	.99029	2.3222	1.1801	2.9832
#1	.19347	.18806	9.8001	10.134	.19631
#2	.19527	.19071	10.127	10.305	.20477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-C MS Acquired: 10/9/2023 23:32:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9018**	**.20481**	**.20494**	**10.111**	**.20704**
Stddev	.0953	.00203	.00098	.181	.00033
%RSD	.96236	.99010	.48013	1.7884	.16112
#1	9.8344	.20338	.20563	9.9826	.20680
#2	9.9692	.20624	.20424	10.238	.20727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**.21163**	**9.8882**	**.23008**	**.20042**
Stddev	.00	.00031	.0311	.00359	.00454
%RSD	.0044	.14519	.31471	1.5587	2.2676
#1	24.99	.21141	9.9102	.23262	.19721
#2	24.99	.21185	9.8662	.22754	.20364
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.115**	**.20332**	**.20293**	**1.007**	**.19950**
Stddev	.207	.00023	.00345	.002	.00239
%RSD	2.0491	.11282	1.6999	.1818	1.1996
#1	9.9686	.20348	.20049	1.006	.19781
#2	10.262	.20316	.20537	1.008	.20120
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-C MS Acquired: 10/9/2023 23:32:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20796**	**.19496**	**.19430**	**1.001**
Stddev	.00122	.00273	.00065	.001
%RSD	.58485	1.3985	.33443	.0850
#1	.20710	.19303	.19384	1.001
#2	.20882	.19689	.19476	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5463.8**	**6915.7**	**30749.**	**86557.**
Stddev	18.0	30.1	155.	204.
%RSD	.32895	.43476	.50363	.23542
#1	5451.0	6894.4	30858.	86701.
#2	5476.5	6936.9	30639.	86413.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.128%	97.877%	104.76%	97.078%
Range				

Sample Name: 480-212925-C-2-D MSD Acquired: 10/9/2023 23:36:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04433**	**10.274**	**.20604**	**.19925**	**.20301**
Stddev	.00032	.246	.00150	.00029	.00192
%RSD	.71531	2.3976	.72823	.14355	.94403
#1	.04455	10.100	.20710	.19905	.20166
#2	.04410	10.449	.20498	.19945	.20437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20430**	**9.7523**	**.21223**	**-.0434**	**.21092**
Stddev	.00369	.1799	.00066	.0160	.00020
%RSD	1.8045	1.8446	.31265	36.90	.09502
#1	.20170	9.6251	.21270	-.0321	.21106
#2	.20691	9.8795	.21177	-.0547	.21078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19041**	**.18482**	**9.9935**	**10.210**	**.20072**
Stddev	.00171	.00178	.1583	.093	.00046
%RSD	.89763	.96246	1.5842	.90937	.22906
#1	.18921	.18356	9.8815	10.145	.20040
#2	.19162	.18608	10.105	10.276	.20105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-D MSD Acquired: 10/9/2023 23:36:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7086**	**.19989**	**.20284**	**10.208**	**.20488**
Stddev	.1152	.00223	.00000	.158	.00002
%RSD	1.1866	1.1146	.00024	1.5494	.00882
#1	9.6272	.19832	.20284	10.096	.20489
#2	9.7901	.20147	.20284	10.320	.20487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20866**	**9.8540**	**.22718**	**.19931**
Stddev	.00	.00134	.0213	.00377	.00232
%RSD	.0033	.64378	.21560	1.6601	1.1626
#1	24.99	.20772	9.8390	.22985	.20095
#2	25.00	.20961	9.8690	.22451	.19767
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.168**	**.20159**	**.20325**	**1.009**	**.19448**
Stddev	.180	.00098	.00360	.000	.00240
%RSD	1.7710	.48640	1.7718	.0392	1.2351
#1	10.041	.20229	.20070	1.009	.19279
#2	10.296	.20090	.20580	1.010	.19618
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-2-D MSD Acquired: 10/9/2023 23:36:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20684**	**.19182**	**.19057**	**1.000**
Stddev	.00207	.00313	.00211	.001
%RSD	1.0009	1.6310	1.1078	.0866
#1	.20830	.18960	.18908	.9994
#2	.20537	.19403	.19206	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5458.4**	**6914.4**	**31260.**	**85793.**
Stddev	1.2	9.0	292.	558.
%RSD	.02176	.12999	.93407	.65065
#1	5457.6	6920.8	31467.	86187.
#2	5459.2	6908.0	31054.	85398.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.035%	97.859%	106.50%	96.221%
Range				

Sample Name: 480-212925-C-4-B Acquired: 10/9/2023 23:39:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00578**	**-.00084**	**.28986**	**.48052**
Stddev	.00066	.01721	.00020	.00011	.00660
%RSD	116.99	297.61	23.948	.03791	1.3743
#1	-.00010	.00639	-.00099	.28979	.47585
#2	-.00103	-.01795	-.00070	.28994	.48519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**73.186**	**.00044**	**.0155**	**-.00041**
Stddev	.00005	1.377	.00044	.0083	.00015
%RSD	31.930	1.8812	100.55	53.57	37.540
#1	-.00013	72.212	.00013	.0214	-.00052
#2	-.00020	74.159	.00075	.0096	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00122**	**.02438**	**2.6342**	**.01426**
Stddev	.00031	.00054	.00634	.0061	.00130
%RSD	32.057	43.968	25.994	.23171	9.0913
#1	.00119	.00160	.02887	2.6386	.01334
#2	.00075	.00084	.01990	2.6299	.01517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-4-B Acquired: 10/9/2023 23:39:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.956**	**.03210**	**.00001**	**64.407**	**-.00012**
Stddev	.410	.00059	.00015	.360	.00023
%RSD	2.0531	1.8437	2432.3	.55960	197.30
#1	19.666	.03168	-.00010	64.152	-.00028
#2	20.246	.03252	.00011	64.662	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**-.00032**	**4.2211**	**.00242**	**-.00422**
Stddev	.00	.00198	.0016	.00056	.00068
%RSD	.0047	614.21	.03845	23.077	16.191
#1	25.05	.00108	4.2222	.00281	-.00374
#2	25.04	-.00172	4.2199	.00202	-.00470
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7987**	**-.00094**	**2.3586**	**1.001**	**.00091**
Stddev	.0887	.00073	.0527	.002	.00039
%RSD	2.3342	78.257	2.2348	.2049	42.727
#1	3.7360	-.00145	2.3213	.9991	.00063
#2	3.8614	-.00042	2.3959	1.002	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-4-B Acquired: 10/9/2023 23:39:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00124**	**-.00023**	**.00051**	**1.001**
Stddev	.00002	.00024	.00002	.001
%RSD	1.4670	104.88	3.8979	.0940
#1	.00123	-.00040	.00052	1.001
#2	.00125	-.00006	.00049	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5290.0**	**6763.2**	**30546.**	**85029.**
Stddev	18.4	10.0	547.	27.
%RSD	.34799	.14721	1.7903	.03167
#1	5277.0	6756.1	30932.	85048.
#2	5303.0	6770.2	30159.	85010.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.103%	95.719%	104.07%	95.365%
Range				

Sample Name: 480-212925-C-5-B Acquired: 10/9/2023 23:42:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.03687**	**.00050**	**.12054**	**.72910**
Stddev	.00031	.00350	.00230	.00052	.02057
%RSD	92.744	9.4899	456.47	.43222	2.8209
#1	-.00012	.03934	.00213	.12017	.71455
#2	-.00056	.03439	-.00112	.12090	.74364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**25.189**	**-.00011**	**.0045**	**.00418**
Stddev	.00017	.783	.00019	.0039	.00024
%RSD	51.635	3.1088	165.13	85.90	5.7486
#1	-.00046	24.635	-.00025	.0018	.00435
#2	-.00021	25.743	.00002	.0073	.00401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00162**	**.00655**	**.01263**	**31.987**	**.43230**
Stddev	.00026	.00063	.00422	.695	.01170
%RSD	16.059	9.6424	33.429	2.1730	2.7066
#1	.00143	.00610	.01561	31.496	.42403
#2	.00180	.00700	.00964	32.479	.44057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-5-B Acquired: 10/9/2023 23:42:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18337**	**.00019**	**.01032**	**128.70**	**.00077**
Stddev	.00155	.00003	.00005	2.74	.00013
%RSD	.84410	17.339	.48685	2.1271	16.496
#1	.18228	.00017	.01036	126.77	.00068
#2	.18447	.00022	.01029	130.64	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00093**	**6.9737**	**.00241**	**-.00135**
Stddev	.00	.00054	.0069	.00025	.00053
%RSD	.0017	58.229	.09886	10.419	39.387
#1	25.01	.00131	6.9689	.00259	-.00098
#2	25.01	.00054	6.9786	.00223	-.00173
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3976**	**.00048**	**8.6819**	**1.003**	**-.00005**
Stddev	.2437	.00027	.2197	.003	.00006
%RSD	2.5934	57.146	2.5304	.2895	125.29
#1	9.2253	.00028	8.5266	1.005	-.00001
#2	9.5700	.00067	8.8373	1.001	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-5-B Acquired: 10/9/2023 23:42:39 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00204**	**.00084**	**1.000**
Stddev	.00025	.00055	.00025	.000
%RSD	68.172	27.050	29.931	.0386
#1	.00054	.00244	.00066	1.001
#2	.00019	.00165	.00102	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5286.6**	**6788.9**	**30294.**	**84609.**
Stddev	5.5	13.8	293.	510.
%RSD	.10495	.20293	.96684	.60229
#1	5290.5	6798.7	30501.	84969.
#2	5282.7	6779.2	30087.	84248.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.044%	96.083%	103.21%	94.893%
Range				

Sample Name: 480-212925-C-6-B Acquired: 10/9/2023 23:46:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.00211**	**-.00136**	**.54513**	**.01379**
Stddev	.00040	.01703	.00000	.00055	.00024
%RSD	42.599	806.25	.04464	.10156	1.7539
#1	-.00123	-.00993	-.00136	.54552	.01362
#2	-.00066	.01415	-.00136	.54473	.01396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**65.769**	**-.00006**	**-.0005**	**-.00030**
Stddev	.00004	.938	.00078	.0015	.00006
%RSD	17.403	1.4259	1318.3	276.0	19.866
#1	-.00025	65.106	.00049	.0005	-.00026
#2	-.00020	66.432	-.00061	-.0016	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00144**	**-.00356**	**4.1152**	**.04839**
Stddev	.00037	.00084	.00185	.0102	.00527
%RSD	49.251	58.610	51.977	.24719	10.892
#1	.00049	.00203	-.00486	4.1080	.04466
#2	.00101	.00084	-.00225	4.1224	.05212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-6-B Acquired: 10/9/2023 23:46:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.119**	**.00932**	**.00231**	**335.89**	**.00368**
Stddev	.205	.00018	.00014	3.42	.00008
%RSD	1.1338	1.8982	6.0777	1.0176	2.0978
#1	17.973	.00919	.00240	333.47	.00374
#2	18.264	.00944	.00221	338.30	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00073**	F **214.63**	**.00065**	**-.00494**
Stddev	.00	.00084	.68	.00108	.00371
%RSD	.0075	114.91	.31668	165.07	75.194
#1	25.00	-.00014	215.12	.00142	-.00756
#2	25.00	-.00132	214.15	-.00011	-.00231
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4444**	**-.00041**	**1.7129**	**1.003**	**.00052**
Stddev	.0509	.00077	.0303	.003	.00046
%RSD	2.0840	190.00	1.7667	.3182	87.329
#1	2.4084	.00014	1.6915	1.005	.00020
#2	2.4804	-.00095	1.7343	1.001	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-6-B Acquired: 10/9/2023 23:46:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00219**	**-.00059**	**.00582**	**1.000**
Stddev	.00112	.00031	.00086	.001
%RSD	51.190	53.485	14.772	.0624
#1	.00299	-.00036	.00521	.9997
#2	.00140	-.00081	.00643	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5115.1**	**6662.8**	**29482.**	**82936.**
Stddev	3.4	10.3	298.	181.
%RSD	.06639	.15490	1.0110	.21849
#1	5112.7	6655.5	29692.	82808.
#2	5117.6	6670.1	29271.	83064.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.059%	94.298%	100.44%	93.017%
Range				

Sample Name: 480-212925-D-7-B Acquired: 10/9/2023 23:49:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00728**	**.00006**	**.08237**	**.06543**
Stddev	.00024	.02981	.00029	.00006	.00035
%RSD	52.594	409.67	441.22	.06912	.53370
#1	-.00062	.01380	-.00014	.08233	.06519
#2	-.00029	-.02836	.00027	.08241	.06568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**105.23**	**-.00047**	**-.0381**	**-.00004**
Stddev	.00016	2.70	.00024	.0160	.00014
%RSD	66.137	2.5673	50.905	41.92	384.12
#1	-.00013	103.32	-.00030	-.0494	.00006
#2	-.00035	107.14	-.00064	-.0268	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00271**	**-.00053**	**3.7451**	**.02925**
Stddev	.00038	.00005	.00062	.0403	.00239
%RSD	77.292	1.8179	118.58	1.0751	8.1831
#1	.00075	.00274	-.00097	3.7166	.03094
#2	.00022	.00267	-.00008	3.7736	.02756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-D-7-B Acquired: 10/9/2023 23:49:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.711**	**.01975**	**.00018**	**84.185**	**.00189**
Stddev	.381	.00010	.00005	1.036	.00045
%RSD	1.1304	.52714	29.562	1.2303	24.063
#1	33.441	.01967	.00015	83.453	.00156
#2	33.980	.01982	.00022	84.918	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00111**	**81.633**	**.00030**	**-.00123**
Stddev	.00	.00141	.062	.00111	.00212
%RSD	.0005	126.21	.07577	369.34	172.49
#1	25.02	-.00211	81.677	-.00048	-.00272
#2	25.02	-.00012	81.590	.00108	.00027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9814**	**-.00079**	**1.2788**	**1.004**	**.00124**
Stddev	.0573	.00101	.0251	.001	.00052
%RSD	1.9209	127.39	1.9598	.1254	42.312
#1	2.9409	-.00151	1.2611	1.003	.00087
#2	3.0219	-.00008	1.2965	1.005	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-D-7-B Acquired: 10/9/2023 23:49:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00079**	**-.00028**	**.00025**	**1.0000**
Stddev	.00043	.00027	.00035	.0011
%RSD	53.873	98.112	140.39	.1069
#1	.00049	-.00047	.00050	1.001
#2	.00109	-.00009	.00000	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5256.6**	**6737.1**	**30537.**	**84980.**
Stddev	3.4	1.8	348.	52.
%RSD	.06467	.02624	1.1405	.06114
#1	5254.2	6738.4	30783.	85016.
#2	5259.0	6735.9	30291.	84943.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.522%	95.350%	104.04%	95.309%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 23:52:52 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97537**	**50.450**	**1.0153**	**1.0027**	**.98617**
Stddev	.00969	.609	.0025	.0003	.01140
%RSD	.99367	1.2077	.24838	.03069	1.1555
#1	.98222	50.019	1.0171	1.0029	.97811
#2	.96852	50.881	1.0135	1.0025	.99422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0066**	**49.305**	**1.0453**	**.9931**	**1.0148**
Stddev	.0107	.343	.0033	.0187	.0035
%RSD	1.0629	.69527	.31932	1.879	.34231
#1	.99899	49.063	1.0477	.9799	1.0173
#2	1.0141	49.547	1.0430	1.006	1.0124
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95277**	**.96195**	**49.667**	**50.305**	**.99468**
Stddev	.00746	.00659	.627	.375	.00346
%RSD	.78294	.68458	1.2623	.74599	.34781
#1	.95805	.96661	49.224	50.040	.99223
#2	.94750	.95730	50.110	50.571	.99712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 23:52:52 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.731**	**.97322**	**.99576**	**50.088**	**1.0154**
Stddev	.248	.00862	.00218	.496	.0028
%RSD	.49851	.88614	.21913	.99018	.27169
#1	49.906	.97932	.99730	49.737	1.0173
#2	49.556	.96712	.99422	50.438	1.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.59**	**1.0137**	**24.476**	**1.0099**	**1.0041**
Stddev	.01	.0033	.012	.0029	.0054
%RSD	.0313	.32962	.04846	.28518	.53422
#1	37.60	1.0160	24.468	1.0079	1.0079
#2	37.58	1.0113	24.484	1.0119	1.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.245**	**1.0029**	**1.0119**	**1.500**	**.96903**
Stddev	.165	.0018	.0100	.007	.00658
%RSD	1.6065	.17809	.98344	.4632	.67859
#1	10.129	1.0042	1.0048	1.496	.97368
#2	10.362	1.0016	1.0189	1.505	.96438
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 23:52:52 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0038**	**.96996**	**.99195**	**1.493**
Stddev	.0007	.00789	.00376	.005
%RSD	.07198	.81375	.37910	.3260
#1	1.0043	.97554	.99461	1.490
#2	1.0033	.96438	.98929	1.497
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5219.4**	**6764.4**	**29690.**	**83463.**
Stddev	4.2	7.3	256.	79.
%RSD	.07955	.10756	.86174	.09421
#1	5216.4	6769.5	29509.	83408.
#2	5222.3	6759.2	29871.	83519.

Sample Name: CCB-7506043 Acquired: 10/9/2023 23:56:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.01666**	**.00021**	**.00023**	**-.00016**
Stddev	.00145	.01318	.00113	.00012	.00002
%RSD	153.67	79.130	532.62	54.281	15.128
#1	-.00196	-.02598	-.00059	.00014	-.00017
#2	.00008	-.00734	.00101	.00032	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00434**	**.00007**	**.0077**	**-.00032**
Stddev	.00014	.00653	.00018	.0550	.00003
%RSD	288.98	150.64	266.00	709.3	10.747
#1	.00005	-.00028	.00020	-.0311	-.00029
#2	-.00015	.00896	-.00006	.0466	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00051**	**.00206**	**.10522**	**.00039**
Stddev	.00008	.00041	.00148	.01179	.00045
%RSD	14.406	79.650	71.573	11.208	115.72
#1	.00051	.00080	.00311	.11356	.00007
#2	.00063	.00022	.00102	.09688	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 23:56:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00579**	**.00001**	**.00156**	**.07799**	**.00005**
Stddev	.00080	.00004	.00029	.00574	.00037
%RSD	13.759	561.80	18.921	7.3567	810.77
#1	-.00636	-.00002	.00135	.08205	.00031
#2	-.00523	.00003	.00177	.07394	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00062**	**.03933**	**.00211**	**.00155**
Stddev	.00	.00026	.00837	.00152	.00062
%RSD	.0020	41.476	21.273	72.394	39.790
#1	25.00	-.00044	.04524	.00103	.00111
#2	25.00	-.00080	.03341	.00318	.00199
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**-.00031**	**.00009**	**1.004**	**-.00006**
Stddev	.01214	.00047	.00006	.002	.00000
%RSD	415.97	153.00	62.246	.2024	6.0214
#1	-.00567	-.00065	.00005	1.005	-.00006
#2	.01151	.00003	.00014	1.002	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 23:56:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00002**	**-.00036**	**.9994**
Stddev	.00069	.00020	.00038	.0011
%RSD	368.81	1033.8	103.00	.1140
#1	-.00068	.00012	-.00010	1.000
#2	.00030	-.00016	-.00063	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5707.5**	**7130.6**	**31218.**	**88063.**
Stddev	10.1	23.2	195.	42.
%RSD	.17655	.32555	.62605	.04788
#1	5700.4	7114.2	31080.	88093.
#2	5714.6	7147.0	31356.	88033.

Sample Name: CCVL-7610998 Acquired: 10/9/2023 23:59:29 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00503**	**.17060**	**.01256**	**.01926**	**.00181**
Stddev	.00062	.00022	.00051	.00060	.00005
%RSD	12.344	.12693	4.0434	3.1166	2.8094
#1	.00547	.17076	.01291	.01884	.00178
#2	.00459	.17045	.01220	.01969	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**.49265**	**.00241**	**-.0141**	**.00379**
Stddev	.00010	.00900	.00028	.0042	.00018
%RSD	5.6020	1.8264	11.746	29.81	4.8145
#1	.00170	.49901	.00221	-.0170	.00391
#2	.00184	.48629	.00261	-.0111	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00444**	**.00964**	**.05062**	**.56213**	**.03094**
Stddev	.00038	.00004	.01388	.03799	.00428
%RSD	8.5094	.38411	27.416	6.7574	13.832
#1	.00417	.00966	.06043	.58899	.02792
#2	.00470	.00961	.04080	.53527	.03397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/9/2023 23:59:29 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18714**	**.00289**	**.00971**	**1.0711**	**.00990**
Stddev	.00221	.00007	.00018	.0096	.00020
%RSD	1.1812	2.3702	1.8347	.89225	2.0012
#1	.18557	.00284	.00958	1.0644	.01004
#2	.18870	.00293	.00983	1.0779	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00952**	**.21980**	**.02191**	**.02471**
Stddev	.00	.00045	.00703	.00104	.00192
%RSD	.0020	4.6990	3.1997	4.7307	7.7833
#1	25.00	.00984	.22477	.02264	.02607
#2	25.00	.00920	.21482	.02117	.02335
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49942**	**.01026**	**.00486**	F **1.005**	**.00440**
Stddev	.00563	.00021	.00013	.001	.00011
%RSD	1.1273	2.0439	2.7258	.0530	2.5284
#1	.49544	.01011	.00495	1.004	.00448
#2	.50340	.01040	.00477	1.005	.00432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 23:59:29 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01933**	**.00445**	**.00960**	F **.9991**
Stddev	.00045	.00037	.00008	.0015
%RSD	2.3270	8.2129	.83499	.1517
#1	.01964	.00420	.00966	1.000
#2	.01901	.00471	.00954	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5537.3**	**6939.4**	**30921.**	**86764.**
Stddev	9.8	28.5	213.	404.
%RSD	.17658	.41021	.68752	.46554
#1	5544.2	6959.6	31071.	87049.
#2	5530.4	6919.3	30771.	86478.

Sample Name: 480-212925-D-8-B Acquired: 10/10/2023 0:02:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00142**	**.00567**	**-.00095**	**.07668**	**.05774**
Stddev	.00035	.01484	.00159	.00033	.00067
%RSD	24.817	261.78	167.43	.43307	1.1659
#1	-.00117	-.00483	.00017	.07692	.05727
#2	-.00167	.01617	-.00207	.07645	.05822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**94.465**	**.00019**	**-.0059**	**-.00007**
Stddev	.00008	3.028	.00054	.0180	.00000
%RSD	43.674	3.2052	281.97	302.3	2.3143
#1	-.00013	92.324	.00057	-.0186	-.00007
#2	-.00025	96.606	-.00019	.0068	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00266**	**-.00165**	**3.3083**	**.01992**
Stddev	.00008	.00037	.00067	.1175	.00223
%RSD	5.4545	13.775	40.337	3.5512	11.178
#1	.00133	.00240	-.00212	3.2252	.02150
#2	.00144	.00292	-.00118	3.3913	.01835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-D-8-B Acquired: 10/10/2023 0:02:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.026**	**.01603**	**.00041**	**77.950**	**.00121**
Stddev	.519	.00027	.00029	2.003	.00060
%RSD	1.6727	1.6593	70.549	2.5703	49.912
#1	30.659	.01584	.00021	76.534	.00163
#2	31.393	.01621	.00062	79.367	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00004**	**73.097**	**.00288**	**-.00061**
Stddev	.00	.00070	.036	.00146	.00097
%RSD	.0048	1861.0	.04946	50.934	159.63
#1	25.02	-.00046	73.072	.00391	-.00129
#2	25.02	.00053	73.123	.00184	.00008
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6119**	**-.00050**	**1.1356**	**1.000**	**.00074**
Stddev	.0760	.00001	.0324	.001	.00011
%RSD	2.9095	2.3717	2.8560	.0725	15.069
#1	2.5581	-.00051	1.1127	.9997	.00067
#2	2.6656	-.00049	1.1586	1.001	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-D-8-B Acquired: 10/10/2023 0:02:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00033**	**.00045**	**.9993**
Stddev	.00064	.00032	.00000	.0002
%RSD	853.23	96.298	.79508	.0171
#1	-.00038	-.00056	.00045	.9994
#2	.00053	-.00011	.00045	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5278.4**	**6727.9**	**29563.**	**85482.**
Stddev	14.6	12.3	477.	590.
%RSD	.27684	.18267	1.6130	.68985
#1	5288.7	6736.6	29900.	85899.
#2	5268.0	6719.2	29226.	85065.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.900%	95.219%	100.72%	95.873%
Range				

Sample Name: 480-212925-C-9-B Acquired: 10/10/2023 0:06:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**-.00760**	**-.00009**	**.64889**	**.13829**
Stddev	.00018	.02581	.00273	.00026	.00181
%RSD	55.723	339.39	3052.0	.04053	1.3120
#1	-.00045	-.02585	.00184	.64870	.13701
#2	-.00020	.01064	-.00202	.64908	.13958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**160.47**	**.00002**	**-.0413**	**.00088**
Stddev	.00004	2.66	.00026	.0403	.00017
%RSD	13.801	1.6578	1580.4	97.56	19.699
#1	-.00027	158.59	-.00017	-.0128	.00100
#2	-.00032	162.36	.00020	-.0698	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00486**	**.02517**	**2.8569**	**.01777**
Stddev	.00081	.00039	.00584	.0160	.00109
%RSD	66.485	7.9927	23.181	.56074	6.1213
#1	.00064	.00459	.02105	2.8456	.01853
#2	.00179	.00514	.02930	2.8682	.01700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-9-B Acquired: 10/10/2023 0:06:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.940**	**1.6974**	**-.00012**	**93.152**	**.00854**
Stddev	.616	.0243	.00006	.769	.00027
%RSD	1.4348	1.4338	50.784	.82572	3.1456
#1	42.505	1.6802	-.00008	92.608	.00835
#2	43.376	1.7146	-.00016	93.696	.00873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**-.00115**	**17.111**	**.00149**	**-.00675**
Stddev	.00	.00026	.026	.00045	.00111
%RSD	.0039	22.927	.15263	29.971	16.506
#1	25.13	-.00096	17.130	.00180	-.00754
#2	25.14	-.00133	17.093	.00117	-.00596
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9566**	**-.00020**	**1.2959**	**.9990**	**.00128**
Stddev	.1601	.00001	.0215	.0074	.00024
%RSD	2.3013	6.4710	1.6580	.7453	18.508
#1	6.8434	-.00019	1.2808	.9937	.00111
#2	7.0698	-.00021	1.3111	1.004	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-9-B Acquired: 10/10/2023 0:06:09 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00145**	**-.00092**	**.00562**	**.9985**
Stddev	.00065	.00046	.00081	.0006
%RSD	44.852	50.140	14.356	.0589
#1	.00191	-.00125	.00505	.9989
#2	.00099	-.00060	.00619	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5179.7**	**6680.0**	**30113.**	**83676.**
Stddev	3.7	14.8	301.	516.
%RSD	.07238	.22163	.99917	.61691
#1	5177.1	6669.5	30326.	84041.
#2	5182.4	6690.5	29900.	83311.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.183%	94.542%	102.59%	93.847%
Range				

Sample Name: 480-212925-C-10-B Acquired: 10/10/2023 0:09:32 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00055**	**.00059**	**.14835**	**.02154**
Stddev	.00011	.00430	.00018	.00067	.00001
%RSD	22.245	787.48	31.377	.44967	.04106
#1	.00041	.00359	.00072	.14882	.02154
#2	.00056	-.00250	.00046	.14787	.02153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**158.84**	**.00005**	**-.0310**	**.00236**
Stddev	.00002	3.59	.00006	.0174	.00002
%RSD	7.1930	2.2582	127.70	56.23	1.0247
#1	-.00022	156.31	.00000	-.0433	.00238
#2	-.00024	161.38	.00009	-.0187	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00149**	**.00256**	**.02441**	**3.4188**	**.03391**
Stddev	.00022	.00005	.00024	.0324	.00070
%RSD	15.016	1.8552	.99397	.94696	2.0662
#1	.00165	.00253	.02423	3.3959	.03441
#2	.00133	.00260	.02458	3.4417	.03342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-10-B Acquired: 10/10/2023 0:09:32 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.629**	**.12507**	**-.00031**	**241.94**	**.00307**
Stddev	.170	.00039	.00029	3.10	.00034
%RSD	.36446	.31141	93.554	1.2831	11.204
#1	46.509	.12480	-.00052	239.75	.00283
#2	46.749	.12535	-.00011	244.14	.00331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00087**	F **222.79**	**-.00237**	**-.00277**
Stddev	.00	.00055	.41	.00128	.00338
%RSD	.0015	63.149	.18435	53.915	121.74
#1	25.03	-.00048	222.49	-.00327	-.00039
#2	25.03	-.00125	223.08	-.00146	-.00516
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0981**	**.00059**	**3.6615**	**1.001**	**.00128**
Stddev	.0300	.00082	.0663	.001	.00002
%RSD	.96710	137.25	1.8119	.1033	1.6197
#1	3.0769	.00002	3.6146	1.002	.00126
#2	3.1193	.00117	3.7084	1.000	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-10-B Acquired: 10/10/2023 0:09:32 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00137**	**-.00084**	**.00161**	**1.001**
Stddev	.00027	.00042	.00001	.000
%RSD	19.539	50.378	.90429	.0397
#1	.00118	-.00114	.00160	1.000
#2	.00156	-.00054	.00162	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5100.7**	**6638.1**	**29734.**	**82409.**
Stddev	.9	3.6	20.	375.
%RSD	.01755	.05422	.06750	.45480
#1	5100.1	6640.7	29749.	82144.
#2	5101.4	6635.6	29720.	82674.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.808%	93.949%	101.30%	92.426%
Range				

Sample Name: 480-212925-C-11-B Acquired: 10/10/2023 0:12:55 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.05212**	**-.00113**	**.08473**	**.02404**
Stddev	.00064	.03216	.00205	.00022	.00037
%RSD	188.57	61.712	181.38	.25867	1.5360
#1	.00011	-.07486	.00032	.08489	.02378
#2	-.00079	-.02938	-.00258	.08458	.02430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**166.36**	**-.00009**	**-.0250**	**.00384**
Stddev	.00009	7.76	.00035	.0069	.00008
%RSD	83.026	4.6630	391.30	27.56	2.0771
#1	-.00018	160.88	-.00033	-.0299	.00379
#2	-.00005	171.85	.00016	-.0202	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00223**	**.12483**	**2.9891**	**.03624**
Stddev	.00040	.00066	.01113	.0094	.00265
%RSD	83.953	29.800	8.9131	.31285	7.3248
#1	.00020	.00270	.11697	2.9825	.03437
#2	.00077	.00176	.13270	2.9957	.03812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-11-B Acquired: 10/10/2023 0:12:55 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.516**	**.04768**	**.00020**	**54.794**	**.00788**
Stddev	.859	.00053	.00011	.747	.00007
%RSD	1.3738	1.1033	52.969	1.3638	.88214
#1	61.909	.04731	.00013	54.266	.00783
#2	63.123	.04805	.00028	55.323	.00793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00028**	F **137.29**	**-.00011**	**-.00262**
Stddev	.00	.00046	.17	.00178	.00049
%RSD	.0036	166.74	.12727	1555.3	18.513
#1	25.01	.00005	137.41	-.00137	-.00228
#2	25.01	-.00060	137.17	.00114	-.00297
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2695**	**-.00064**	**3.9871**	**1.000**	**.00161**
Stddev	.0577	.00000	.0299	.005	.00010
%RSD	1.7640	.48598	.75089	.5524	6.3435
#1	3.2287	-.00065	3.9659	1.004	.00153
#2	3.3103	-.00064	4.0082	.9962	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-11-B Acquired: 10/10/2023 0:12:55 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00104**	**.00572**	**1.000**
Stddev	.00136	.00004	.00002	.001
%RSD	412.59	3.8420	.27365	.0728
#1	-.00063	-.00101	.00573	.9997
#2	.00129	-.00107	.00571	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5233.8**	**6684.6**	**29999.**	**84804.**
Stddev	1.9	4.6	203.	531.
%RSD	.03611	.06921	.67564	.62567
#1	5232.4	6687.9	30142.	85179.
#2	5235.1	6681.3	29856.	84429.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.124%	94.607%	102.20%	95.112%
Range				

Sample Name: 480-212925-C-12-B Acquired: 10/10/2023 0:16:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.03223**	**.00148**	**.14752**	**1.0903**
Stddev	.00102	.00555	.00250	.00086	.0216
%RSD	4251.3	17.215	169.01	.58274	1.9860
#1	.00069	-.03615	.00324	.14813	1.0750
#2	-.00074	-.02831	-.00029	.14691	1.1056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**67.948**	**-.00037**	**-.0257**	**.00095**
Stddev	.00004	1.430	.00039	.0020	.00005
%RSD	20.723	2.1051	106.76	7.921	5.1587
#1	-.00024	66.937	-.00064	-.0242	.00098
#2	-.00018	68.960	-.00009	-.0271	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00143**	**1.2077**	**3.9971**	**.01792**
Stddev	.00003	.00003	.0247	.0738	.00017
%RSD	6.9603	1.9681	2.0486	1.8467	.95662
#1	.00051	.00141	1.1902	3.9449	.01780
#2	.00047	.00145	1.2252	4.0493	.01804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-12-B Acquired: 10/10/2023 0:16:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.924**	**.37492**	**-.00066**	**42.301**	**.00088**
Stddev	.107	.00319	.00008	.792	.00007
%RSD	.56377	.84973	11.976	1.8724	7.8449
#1	18.849	.37267	-.00071	41.741	.00083
#2	18.999	.37717	-.00060	42.861	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.58**	**-.00095**	**1.7852**	**-.00003**	**.00138**
Stddev	.00	.00161	.0157	.00030	.00110
%RSD	.0018	169.76	.87963	1026.6	80.109
#1	25.58	-.00209	1.7963	-.00024	.00216
#2	25.58	.00019	1.7741	.00018	.00060
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5749**	**-.00059**	**2.0846**	**1.004**	**.00031**
Stddev	.1156	.00006	.0542	.000	.00016
%RSD	2.5277	10.328	2.5981	.0150	51.771
#1	4.4931	-.00055	2.0463	1.004	.00042
#2	4.6567	-.00063	2.1229	1.004	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-12-B Acquired: 10/10/2023 0:16:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00062**	**.00254**	**.9993**
Stddev	.00142	.00023	.00037	.0006
%RSD	357.30	36.890	14.446	.0562
#1	.00060	-.00046	.00228	.9989
#2	-.00140	-.00078	.00280	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5352.5**	**6833.8**	**30368.**	**85680.**
Stddev	3.1	1.4	78.	242.
%RSD	.05853	.01998	.25699	.28203
#1	5354.7	6832.8	30313.	85851.
#2	5350.3	6834.7	30423.	85509.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.191%	96.718%	103.46%	96.095%
Range				

Sample Name: 480-212925-C-13-B Acquired: 10/10/2023 0:19:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00147**	**-.00753**	**.00112**	**.10347**	**.78220**
Stddev	.00023	.02251	.00033	.00009	.01701
%RSD	15.766	298.90	29.949	.08775	2.1742
#1	-.00163	.00839	.00136	.10353	.77018
#2	-.00130	-.02345	.00088	.10340	.79423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**47.169**	**.00062**	**.0050**	**.00033**
Stddev	.00001	.960	.00004	.0293	.00002
%RSD	5.8127	2.0357	5.7158	580.2	4.9521
#1	-.00018	46.490	.00060	.0257	.00035
#2	-.00020	47.848	.00065	-.0156	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00086**	**.86098**	**2.8782**	**.01092**
Stddev	.00011	.00010	.02243	.0840	.00017
%RSD	19.503	11.688	2.6051	2.9188	1.5607
#1	.00048	.00079	.84512	2.8188	.01104
#2	.00063	.00093	.87684	2.9376	.01080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-13-B Acquired: 10/10/2023 0:19:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.933**	**.25901**	**-.00078**	**30.074**	**.00044**
Stddev	.093	.00148	.00003	.489	.00003
%RSD	.71962	.57074	4.0832	1.6247	7.3429
#1	12.867	.25797	-.00075	29.728	.00042
#2	12.998	.26006	-.00080	30.419	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.42**	**-.00021**	**.40011**	**.00097**	**-.00622**
Stddev	.00	.00067	.00094	.00180	.00118
%RSD	.0008	315.18	.23613	186.36	18.981
#1	25.42	.00026	.40078	.00224	-.00706
#2	25.42	-.00068	.39944	-.00031	-.00539
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2381**	**.00002**	**1.4611**	**1.006**	**.00031**
Stddev	.0487	.00030	.0330	.001	.00019
%RSD	1.5047	1292.0	2.2602	.1257	62.839
#1	3.2036	-.00019	1.4378	1.005	.00044
#2	3.2725	.00024	1.4845	1.007	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-13-B Acquired: 10/10/2023 0:19:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00030**	**.00096**	**.9999**
Stddev	.00128	.00055	.00018	.0007
%RSD	958.61	180.06	18.801	.0709
#1	.00104	.00008	.00109	1.000
#2	-.00077	-.00069	.00084	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5386.2**	**6873.9**	**31135.**	**85725.**
Stddev	.9	.1	226.	420.
%RSD	.01712	.00148	.72526	.48936
#1	5385.5	6873.9	31294.	86022.
#2	5386.8	6873.8	30975.	85428.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.777%	97.285%	106.07%	96.145%
Range				

Sample Name: 480-212925-D-14-B Acquired: 10/10/2023 0:23:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00158**	**-.00080**	**.07560**	**.06328**
Stddev	.00060	.01212	.00131	.00046	.00028
%RSD	366.81	765.43	163.77	.60895	.43887
#1	-.00058	.01016	.00013	.07528	.06308
#2	.00026	-.00699	-.00172	.07593	.06347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**104.49**	**-.00002**	**-.0262**	**-.00028**
Stddev	.00001	2.24	.00009	.0249	.00005
%RSD	4.1624	2.1396	434.10	95.01	17.307
#1	-.00024	102.91	.00004	-.0438	-.00032
#2	-.00025	106.07	-.00009	-.0086	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00231**	**-.00831**	**3.3704**	**.02477**
Stddev	.00003	.00034	.00169	.1033	.00232
%RSD	7.7415	14.868	20.335	3.0648	9.3736
#1	.00038	.00255	-.00950	3.2973	.02642
#2	.00043	.00206	-.00711	3.4434	.02313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-D-14-B Acquired: 10/10/2023 0:23:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.272**	**.01341**	**.00024**	**83.153**	**.00063**
Stddev	.286	.00006	.00021	1.602	.00004
%RSD	.83352	.44667	88.518	1.9264	6.5809
#1	34.070	.01336	.00009	82.020	.00060
#2	34.474	.01345	.00039	84.286	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00010**	**80.199**	**.00148**	**-.00573**
Stddev	.00	.00081	.260	.00002	.00242
%RSD	.0024	843.54	.32436	1.6217	42.321
#1	25.01	.00067	80.383	.00146	-.00744
#2	25.01	-.00048	80.016	.00149	-.00402
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7283**	**-.00008**	**1.2947**	**1.007**	**.00071**
Stddev	.0536	.00030	.0279	.004	.00015
%RSD	1.9658	402.19	2.1516	.3434	20.371
#1	2.6904	.00014	1.2750	1.009	.00061
#2	2.7662	-.00029	1.3144	1.004	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-D-14-B Acquired: 10/10/2023 0:23:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00098**	**-.00007**	**.9998**
Stddev	.00155	.00056	.00051	.0006
%RSD	318.13	57.643	723.08	.0557
#1	.00159	-.00058	-.00044	1.000
#2	-.00061	-.00138	.00029	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5287.2**	**6763.7**	**30391.**	**85234.**
Stddev	17.2	19.4	87.	380.
%RSD	.32515	.28657	.28753	.44529
#1	5299.4	6777.4	30453.	85503.
#2	5275.1	6750.0	30329.	84966.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.055%	95.726%	103.54%	95.595%
Range				

Sample Name: 480-212925-C-15-B Acquired: 10/10/2023 0:26:26 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.02329**	**.00132**	**.13078**	**.08301**
Stddev	.00010	.00189	.00341	.00143	.00089
%RSD	300.78	8.1342	259.52	1.0958	1.0780
#1	.00011	-.02463	-.00110	.12976	.08238
#2	-.00004	-.02195	.00373	.13179	.08364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**124.36**	**.00017**	**.0218**	**-.00040**
Stddev	.00011	3.47	.00073	.0070	.00005
%RSD	96.482	2.7905	426.14	32.15	13.527
#1	-.00004	121.91	-.00034	.0168	-.00036
#2	-.00020	126.81	.00069	.0268	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00244**	**.01291**	**3.2645**	**.02084**
Stddev	.00029	.00032	.02170	.1401	.00028
%RSD	37.863	13.230	168.08	4.2913	1.3603
#1	.00055	.00221	.02825	3.1655	.02104
#2	.00096	.00267	-.00243	3.3636	.02064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-15-B Acquired: 10/10/2023 0:26:26 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.864**	**.00645**	**.00058**	**24.710**	**.00059**
Stddev	.661	.00008	.00034	.604	.00018
%RSD	1.4738	1.2929	58.942	2.4453	29.625
#1	44.396	.00639	.00034	24.283	.00072
#2	45.331	.00651	.00083	25.138	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00167**	**68.912**	**.00027**	**-.00657**
Stddev	.00	.00010	.828	.00153	.00169
%RSD	.0001	6.1052	1.2011	573.27	25.785
#1	25.00	-.00174	68.327	-.00082	-.00777
#2	25.00	-.00160	69.498	.00135	-.00537
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2719**	**-.00085**	**3.1838**	**1.002**	**.00126**
Stddev	.2092	.00098	.1055	.002	.00013
%RSD	2.8769	114.74	3.3125	.1498	10.441
#1	7.1240	-.00155	3.1092	1.001	.00135
#2	7.4199	-.00016	3.2584	1.003	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-15-B Acquired: 10/10/2023 0:26:26 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00078**	**.00745**	**1.000**
Stddev	.00032	.00017	.00048	.000
%RSD	177.34	22.456	6.4165	.0323
#1	-.00005	-.00066	.00778	.9999
#2	.00041	-.00090	.00711	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5383.1**	**6860.1**	**30568.**	**85545.**
Stddev	53.7	59.1	527.	1129.
%RSD	.99832	.86221	1.7235	1.3201
#1	5421.1	6901.9	30940.	86343.
#2	5345.1	6818.3	30195.	84746.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.723%	97.090%	104.14%	95.943%
Range				

Sample Name: 480-212925-C-16-B Acquired: 10/10/2023 0:29:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.01552**	**.00610**	**.27095**	**.15182**
Stddev	.00000	.01734	.00208	.00067	.00193
%RSD	.97634	111.74	34.050	.24814	1.2713
#1	-.00036	.02779	.00463	.27048	.15045
#2	-.00036	.00326	.00757	.27143	.15318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**7.1746**	**-.00003**	**.0167**	**-.00021**
Stddev	.00005	.1126	.00060	.0311	.00013
%RSD	22.282	1.5690	1747.8	185.5	64.282
#1	-.00021	7.0950	.00039	-.0052	-.00030
#2	-.00028	7.2542	-.00046	.0387	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**.00166**	**.09294**	**2.5771**	**.04225**
Stddev	.00053	.00097	.00495	.0391	.00686
%RSD	24.336	58.465	5.3212	1.5153	16.248
#1	.00257	.00097	.08944	2.5495	.03740
#2	.00182	.00234	.09643	2.6047	.04710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-16-B Acquired: 10/10/2023 0:29:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8022**	**.01134**	**.00169**	F **941.82**	**.00443**
Stddev	.0078	.00012	.00007	12.55	.00008
%RSD	.43423	1.0870	3.9613	1.3324	1.7286
#1	1.7967	.01126	.00173	932.94	.00437
#2	1.8077	.01143	.00164	950.69	.00448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**-.00018**	**.72964**	**.00069**	**-.00510**
Stddev	.00	.00031	.00982	.00010	.00178
%RSD	.0018	169.44	1.3465	14.897	34.984
#1	25.08	.00004	.73659	.00076	-.00636
#2	25.08	-.00040	.72270	.00062	-.00384
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6383**	**-.00062**	**.66707**	**1.001**	**.00005**
Stddev	.0777	.00040	.01089	.009	.00043
%RSD	1.6758	63.729	1.6319	.8677	885.92
#1	4.5834	-.00090	.65937	1.008	-.00026
#2	4.6933	-.00034	.67476	.9953	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-16-B Acquired: 10/10/2023 0:29:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00291**	**-.00023**	**.00202**	**1.004**
Stddev	.00182	.00010	.00022	.001
%RSD	62.533	44.686	11.064	.0600
#1	.00420	-.00016	.00218	1.005
#2	.00162	-.00030	.00186	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4918.0**	**6581.3**	**29371.**	**80746.**
Stddev	1.0	3.4	409.	43.
%RSD	.02105	.05209	1.3924	.05292
#1	4917.3	6578.9	29660.	80716.
#2	4918.8	6583.7	29082.	80776.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.627%	93.145%	100.06%	90.560%
Range				

Sample Name: CCV-7538313 Acquired: 10/10/2023 0:33:09 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97509**	**50.571**	**1.0152**	**1.0044**	**.98704**
Stddev	.00216	.366	.0018	.0023	.00726
%RSD	.22101	.72304	.17775	.23197	.73594
#1	.97661	50.312	1.0165	1.0061	.98190
#2	.97356	50.829	1.0139	1.0028	.99218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0049**	**49.309**	**1.0450**	**.9848**	**1.0144**
Stddev	.0047	.299	.0055	.0351	.0010
%RSD	.46832	.60696	.52343	3.562	.09611
#1	1.0016	49.097	1.0411	1.010	1.0151
#2	1.0083	49.520	1.0489	.9600	1.0137
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94947**	**.96193**	**49.654**	**50.112**	**.99867**
Stddev	.00144	.00007	.346	.097	.00070
%RSD	.15196	.00748	.69683	.19349	.06983
#1	.95049	.96188	49.410	50.043	.99818
#2	.94845	.96198	49.899	50.180	.99916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 0:33:09 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.763**	**.97319**	**.99452**	**49.874**	**1.0142**
Stddev	.061	.00162	.00391	.156	.0008
%RSD	.12178	.16676	.39276	.31307	.08213
#1	49.806	.97434	.99728	49.764	1.0148
#2	49.721	.97205	.99175	49.984	1.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.60**	**1.0121**	**24.412**	**1.0108**	**1.0070**
Stddev	.01	.0045	.132	.0028	.0039
%RSD	.0253	.44534	.53869	.27886	.38247
#1	37.60	1.0153	24.504	1.0128	1.0097
#2	37.59	1.0089	24.319	1.0088	1.0042
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.230**	**1.0001**	**1.0112**	**1.494**	**.96957**
Stddev	.093	.0011	.0038	.008	.00070
%RSD	.90578	.10608	.37875	.5616	.07201
#1	10.164	1.0008	1.0085	1.488	.96908
#2	10.295	.99932	1.0139	1.500	.97007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 0:33:09 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99717**	**.96922**	**.98973**	**1.493**
Stddev	.00350	.00007	.00102	.004
%RSD	.35136	.00678	.10257	.2348
#1	.99965	.96927	.98902	1.490
#2	.99470	.96918	.99045	1.495
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5213.6**	**6750.5**	**29719.**	**83082.**
Stddev	8.5	11.0	149.	458.
%RSD	.16379	.16282	.50281	.55092
#1	5207.6	6742.8	29614.	82758.
#2	5219.6	6758.3	29825.	83406.

Sample Name: CCB-7506043 Acquired: 10/10/2023 0:36:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.01207**	**.00111**	**-.00002**	**-.00025**
Stddev	.00059	.00718	.00038	.00063	.00007
%RSD	74.647	59.549	34.113	2854.9	26.818
#1	-.00121	-.01715	.00085	.00043	-.00020
#2	-.00037	-.00698	.00138	-.00047	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00755**	**.00000**	**.0339**	**-.00034**
Stddev	.00006	.00333	.00022	.0203	.00014
%RSD	65.244	44.056	5605.1	59.79	40.391
#1	-.00005	-.00520	.00016	.0482	-.00044
#2	-.00013	-.00991	-.00015	.0196	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00014**	**-.00385**	**.09306**	**-.00123**
Stddev	.00006	.00135	.00881	.02953	.00570
%RSD	17.897	937.98	228.84	31.732	462.69
#1	.00031	-.00110	.00238	.07218	-.00527
#2	.00040	.00081	-.01007	.11394	.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 0:36:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00717**	**-.00006**	**.00139**	**.20345**	**-.00013**
Stddev	.00020	.00001	.00013	.00840	.00009
%RSD	2.8532	21.940	9.5335	4.1311	72.458
#1	-.00702	-.00007	.00129	.20940	-.00006
#2	-.00731	-.00005	.00148	.19751	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00059**	**.02746**	**.00093**	**.00366**
Stddev	.00	.00020	.00469	.00071	.00096
%RSD	.0004	34.493	17.063	76.418	26.250
#1	25.00	-.00045	.03077	.00043	.00298
#2	25.00	-.00073	.02415	.00143	.00434
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**-.00032**	**-.00006**	**1.006**	**.00010**
Stddev	.01128	.00088	.00007	.001	.00008
%RSD	706.65	273.97	114.21	.0912	72.742
#1	-.00638	.00030	-.00001	1.007	.00016
#2	.00958	-.00094	-.00011	1.005	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 0:36:22 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00018**	**-.00028**	**.9993**
Stddev	.00203	.00022	.00015	.0002
%RSD	843.02	123.17	53.935	.0199
#1	.00167	-.00034	-.00039	.9995
#2	-.00119	-.00002	-.00017	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5712.7**	**7118.1**	**31677.**	**88042.**
Stddev	14.4	11.6	613.	360.
%RSD	.25143	.16347	1.9361	.40935
#1	5722.8	7126.3	31243.	87788.
#2	5702.5	7109.9	32110.	88297.

Sample Name: CCVL-7610998 Acquired: 10/10/2023 0:39:45 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**.16475**	**.01466**	**.01884**	**.00192**
Stddev	.00062	.00572	.00103	.00051	.00030
%RSD	11.520	3.4728	7.0604	2.7328	15.468
#1	.00585	.16880	.01539	.01847	.00171
#2	.00497	.16071	.01392	.01920	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**.49412**	**.00168**	**-.0241**	**.00383**
Stddev	.00007	.00700	.00006	.0574	.00033
%RSD	4.0511	1.4170	3.2959	238.0	8.5304
#1	.00181	.49907	.00164	.0165	.00360
#2	.00171	.48917	.00172	-.0647	.00406
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **.00520**	**.00942**	**.04212**	**.54754**	**.03183**
Stddev	.00180	.00078	.00807	.02335	.00197
%RSD	34.493	8.2670	19.148	4.2646	6.1774
#1	.00394	.00887	.04782	.56405	.03322
#2	.00647	.00997	.03642	.53103	.03044
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.00400				
Range	30.000%				

Sample Name: CCVL-7610998 Acquired: 10/10/2023 0:39:45 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20194**	**.00315**	**.00981**	**1.2040**	**.01047**
Stddev	.02006	.00046	.00000	.0077	.00029
%RSD	9.9329	14.656	.00440	.64216	2.8064
#1	.18775	.00283	.00981	1.1985	.01068
#2	.21612	.00348	.00981	1.2095	.01026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00960**	**.21913**	**.02307**	**.02316**
Stddev	.00	.00071	.00144	.00255	.00186
%RSD	.0035	7.3613	.65811	11.063	8.0179
#1	25.00	.00910	.21811	.02488	.02185
#2	25.00	.01010	.22015	.02127	.02448
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48855**	**.00979**	**.00504**	F **.9997**	**.00444**
Stddev	.01510	.00052	.00009	.0055	.00032
%RSD	3.0903	5.2724	1.6895	.5541	7.2460
#1	.47788	.01015	.00510	.9958	.00421
#2	.49923	.00942	.00498	1.004	.00466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/10/2023 0:39:45 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.01789	.00442	.00951	F .9998
Stddev	.00054	.00064	.00030	.0009
%RSD	2.9985	14.392	3.1382	.0934
#1	.01827	.00397	.00930	1.000
#2	.01751	.00487	.00972	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5535.3	6948.1	31080.	86795.
Stddev	4.5	14.0	204.	624.
%RSD	.08186	.20208	.65720	.71914
#1	5532.1	6938.2	31224.	87236.
#2	5538.5	6958.1	30935.	86354.

Sample Name: 480-212925-C-17-B Acquired: 10/10/2023 0:43:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**8.0646**	**-.00029**	**.29004**	**.00677**
Stddev	.00033	.0917	.00128	.00028	.00005
%RSD	42.707	1.1374	436.34	.09522	.72778
#1	-.00102	7.9998	.00061	.29023	.00681
#2	-.00055	8.1295	-.00119	.28984	.00674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**259.72**	**.00252**	**-.0180**	**.12432**
Stddev	.00002	1.35	.00087	.0283	.00011
%RSD	.83656	.51982	34.428	157.3	.08578
#1	.00216	258.77	.00313	.0020	.12439
#2	.00219	260.68	.00191	-.0381	.12424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**.00988**	**.11219**	**4.2171**	**.15136**
Stddev	.00007	.00015	.00078	.0300	.00184
%RSD	5.0907	1.5196	.69308	.71231	1.2188
#1	.00135	.00977	.11164	4.1958	.15006
#2	.00146	.00999	.11274	4.2383	.15267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-17-B Acquired: 10/10/2023 0:43:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.773**	**.56712**	**-.00037**	**15.054**	**.25956**
Stddev	.181	.00254	.00001	.019	.00024
%RSD	.25521	.44860	3.2747	.12534	.09427
#1	70.645	.56532	-.00037	15.041	.25973
#2	70.901	.56892	-.00038	15.068	.25938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00038**	F **321.50**	**-.00040**	**-.00471**
Stddev	.00	.00019	.14	.00154	.00131
%RSD	.0051	49.457	.04388	385.20	27.764
#1	25.00	-.00052	321.60	.00069	-.00379
#2	25.01	-.00025	321.40	-.00149	-.00564
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4678**	**-.00000**	**.97109**	**1.008**	**.00173**
Stddev	.0203	.00070	.00332	.002	.00042
%RSD	.21409	55135.	.34196	.1834	24.083
#1	9.4535	-.00049	.96874	1.007	.00144
#2	9.4822	.00049	.97344	1.010	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212925-C-17-B Acquired: 10/10/2023 0:43:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00116**	**-.00062**	**.23995**	**.9995**
Stddev	.00025	.00009	.00204	.0010
%RSD	21.723	15.072	.84912	.0958
#1	.00099	-.00056	.23851	1.000
#2	.00134	-.00069	.24139	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5232.8**	**6886.6**	**31117.**	**86410.**
Stddev	2.9	7.8	157.	430.
%RSD	.05633	.11354	.50297	.49795
#1	5230.7	6892.1	31228.	86105.
#2	5234.9	6881.1	31006.	86714.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.107%	97.465%	106.01%	96.913%
Range				

Sample Name: 480-212984-A-2-A Acquired: 10/10/2023 0:46:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**-.01933**	**.02333**	**.17867**	**.23412**
Stddev	.00047	.01749	.00070	.00070	.00239
%RSD	51.895	90.484	3.0122	.39290	1.0204
#1	-.00058	-.03170	.02283	.17817	.23243
#2	-.00124	-.00696	.02383	.17916	.23581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**114.43**	**.00114**	**-.0372**	**-.00033**
Stddev	.00004	1.86	.00012	.0249	.00013
%RSD	21.488	1.6227	10.301	66.75	40.051
#1	-.00019	113.12	.00122	-.0548	-.00042
#2	-.00014	115.74	.00106	-.0197	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00043**	**10.033**	**4.0748**	**.00999**
Stddev	.00053	.00102	.125	.1174	.00580
%RSD	51.634	238.96	1.2466	2.8808	58.067
#1	.00140	.00115	9.9450	3.9918	.00589
#2	.00065	-.00030	10.122	4.1578	.01409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-2-A Acquired: 10/10/2023 0:46:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.966**	**1.2105**	**-.00085**	**191.62**	**.00509**
Stddev	1.201	.0244	.00006	3.64	.00002
%RSD	1.6922	2.0167	6.9947	1.8971	.47367
#1	70.117	1.1932	-.00089	189.05	.00507
#2	71.815	1.2278	-.00081	194.19	.00511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00085**	**.66468**	**-.00171**	**-.00307**
Stddev	.00	.00134	.01442	.00035	.00177
%RSD	.0002	157.74	2.1688	20.499	57.701
#1	25.00	-.00010	.67487	-.00196	-.00432
#2	25.00	.00180	.65449	-.00146	-.00182
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9176**	**.00004**	**.44841**	**1.010**	**.00056**
Stddev	.1101	.00025	.00863	.001	.00013
%RSD	1.3903	551.65	1.9242	.0992	23.809
#1	7.8398	.00022	.44231	1.009	.00066
#2	7.9954	-.00013	.45451	1.010	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-2-A Acquired: 10/10/2023 0:46:30 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00209**	**-.00099**	**.00306**	**1.000**
Stddev	.00057	.00013	.00021	.000
%RSD	27.138	13.093	6.7950	.0021
#1	.00169	-.00108	.00320	1.000
#2	.00249	-.00089	.00291	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5126.3**	**6660.9**	**30119.**	**83442.**
Stddev	12.1	16.7	515.	320.
%RSD	.23620	.25032	1.7109	.38366
#1	5117.8	6649.1	30483.	83216.
#2	5134.9	6672.7	29754.	83669.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.253%	94.271%	102.61%	93.585%
Range				

Sample Name: 480-212984-A-4-A Acquired: 10/10/2023 0:49:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00151**	**-.02786**	**.00690**	**.23582**	**.14209**
Stddev	.00017	.02439	.00005	.00008	.00035
%RSD	11.342	87.535	.68120	.03495	.24888
#1	-.00163	-.04511	.00687	.23588	.14184
#2	-.00139	-.01062	.00694	.23577	.14234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**125.24**	**.00037**	**-.0317**	**-.00029**
Stddev	.00007	1.06	.00014	.0261	.00007
%RSD	31.501	.84660	38.647	82.22	23.023
#1	-.00026	124.50	.00047	-.0133	-.00025
#2	-.00017	125.99	.00027	-.0502	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00237**	**2.8914**	**3.5158**	**.01555**
Stddev	.00018	.00075	.0197	.0181	.00020
%RSD	22.010	31.797	.68185	.51537	1.2909
#1	.00069	.00290	2.8775	3.5030	.01540
#2	.00095	.00184	2.9054	3.5287	.01569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-4-A Acquired: 10/10/2023 0:49:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.722**	**.64805**	**-.00074**	**105.91**	**.01094**
Stddev	.341	.00487	.00021	.45	.00010
%RSD	.57127	.75209	27.798	.42443	.94252
#1	59.481	.64461	-.00060	105.59	.01087
#2	59.963	.65150	-.00089	106.22	.01102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00021**	**8.8311**	**-.00027**	**-.00309**
Stddev	.00	.00115	.0023	.00091	.00143
%RSD	.0003	553.96	.02621	331.22	46.303
#1	25.00	-.00061	8.8328	-.00091	-.00410
#2	25.00	.00102	8.8295	.00037	-.00208
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9441**	**-.00117**	**.34426**	**1.003**	**.00117**
Stddev	.0131	.00011	.00053	.003	.00071
%RSD	.14599	9.7448	.15504	.2619	60.649
#1	8.9533	-.00109	.34389	1.001	.00067
#2	8.9349	-.00125	.34464	1.004	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-4-A Acquired: 10/10/2023 0:49:47 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00182**	**-.00080**	**.00122**	**1.000**
Stddev	.00015	.00013	.00031	.001
%RSD	8.2370	16.729	25.552	.1204
#1	.00172	-.00071	.00100	1.001
#2	.00193	-.00089	.00144	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5186.2**	**6711.0**	**30241.**	**83661.**
Stddev	14.3	8.8	13.	597.
%RSD	.27662	.13160	.04300	.71409
#1	5176.0	6704.8	30250.	83239.
#2	5196.3	6717.3	30232.	84084.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.295%	94.981%	103.03%	93.830%
Range				

Sample Name: 480-212984-A-6-A Acquired: 10/10/2023 0:53:04 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.02976**	**.02501**	**.10848**	**.21689**
Stddev	.00017	.02844	.00191	.00038	.00244
%RSD	47.081	95.573	7.6444	.35147	1.1271
#1	-.00047	-.00965	.02366	.10875	.21516
#2	-.00024	-.04987	.02636	.10821	.21861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**135.66**	**.00063**	**-.0398**	**-.00037**
Stddev	.00017	2.16	.00060	.0131	.00021
%RSD	104.36	1.5953	95.772	33.03	56.137
#1	-.00029	134.13	.00020	-.0491	-.00052
#2	-.00004	137.19	.00106	-.0305	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00251**	**10.724**	**4.3494**	**.01868**
Stddev	.00000	.00050	.254	.0627	.00194
%RSD	.56476	20.042	2.3707	1.4419	10.412
#1	.00070	.00216	10.544	4.3051	.01730
#2	.00069	.00287	10.904	4.3938	.02005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-6-A Acquired: 10/10/2023 0:53:04 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.955**	**1.1704**	**-.00060**	**39.812**	**.00373**
Stddev	.950	.0164	.00011	.801	.00006
%RSD	1.5097	1.3992	18.840	2.0126	1.5598
#1	62.283	1.1588	-.00052	39.245	.00377
#2	63.627	1.1820	-.00068	40.378	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00070**	**4.2246**	**-.00231**	**-.00330**
Stddev	.00	.00031	.0077	.00180	.00235
%RSD	.0023	43.963	.18154	77.706	71.168
#1	25.00	.00048	4.2300	-.00104	-.00496
#2	25.00	.00092	4.2191	-.00358	-.00164
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4198**	**-.00004**	**.39729**	**1.010**	**.00062**
Stddev	.2284	.00004	.00937	.005	.00045
%RSD	2.4246	97.560	2.3589	.4510	72.412
#1	9.2583	-.00001	.39066	1.014	.00094
#2	9.5813	-.00007	.40392	1.007	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-6-A Acquired: 10/10/2023 0:53:04 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00153**	**-.00122**	**.00049**	**.9999**
Stddev	.00002	.00036	.00008	.0007
%RSD	1.4899	29.680	16.632	.0652
#1	-.00155	-.00148	.00054	1.000
#2	-.00152	-.00096	.00043	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5236.4**	**6715.6**	**30146.**	**84548.**
Stddev	9.0	14.3	297.	75.
%RSD	.17191	.21361	.98384	.08897
#1	5230.0	6705.4	30355.	84495.
#2	5242.7	6725.7	29936.	84601.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.169%	95.045%	102.70%	94.825%
Range				

Sample Name: 480-212984-A-8-A Acquired: 10/10/2023 0:56:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.01923**	**.01745**	**.12603**	**.18335**
Stddev	.00023	.00315	.00042	.00126	.00012
%RSD	69.320	16.394	2.4188	.99748	.06673
#1	-.00017	-.01700	.01775	.12692	.18344
#2	-.00050	-.02146	.01715	.12514	.18326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**140.38**	**.00046**	**-.1485**	**.00045**
Stddev	.00000	1.89	.00059	.0113	.00002
%RSD	2.3087	1.3450	129.42	7.605	5.4143
#1	-.00021	139.05	.00087	-.1405	.00047
#2	-.00022	141.72	.00004	-.1565	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.00196**	**19.742**	**2.8685**	**.01218**
Stddev	.00075	.00125	.294	.0140	.00189
%RSD	63.051	63.727	1.4878	.48865	15.549
#1	.00066	.00108	19.534	2.8586	.01352
#2	.00173	.00285	19.949	2.8784	.01085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-8-A Acquired: 10/10/2023 0:56:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.857**	**2.2615**	**-.00067**	**22.828**	**.00429**
Stddev	.161	.0345	.00002	.244	.00007
%RSD	.29907	1.5253	3.2486	1.0693	1.5768
#1	53.743	2.2371	-.00066	22.656	.00424
#2	53.971	2.2859	-.00069	23.001	.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00271**	**.59977**	**-.00257**	**-.00212**
Stddev	.00	.00051	.00309	.00087	.00067
%RSD	.0056	18.874	.51508	33.679	31.889
#1	25.00	.00307	.60195	-.00318	-.00164
#2	25.00	.00235	.59758	-.00196	-.00259
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3484**	**-.00069**	**.33454**	**1.008**	**.00058**
Stddev	.0300	.00026	.00350	.001	.00057
%RSD	.47261	38.043	1.0463	.0777	97.967
#1	6.3272	-.00088	.33206	1.008	.00099
#2	6.3696	-.00051	.33701	1.007	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-8-A Acquired: 10/10/2023 0:56:21 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00171**	**-.00068**	**.00097**	**.9992**
Stddev	.00278	.00034	.00014	.0007
%RSD	162.31	50.719	14.837	.0691
#1	.00025	-.00043	.00108	.9997
#2	-.00368	-.00092	.00087	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5249.2**	**6716.8**	**30126.**	**84539.**
Stddev	6.3	5.7	19.	26.
%RSD	.12061	.08451	.06406	.03134
#1	5253.7	6712.8	30140.	84558.
#2	5244.7	6720.8	30113.	84520.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.392%	95.062%	102.64%	94.815%
Range				

Sample Name: rinse Acquired: 10/10/2023 0:59:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.04861**	**.00004**	**-.00107**	**-.00029**
Stddev	.00090	.00765	.00027	.00011	.00003
%RSD	1001.1	15.729	602.82	10.168	11.519
#1	.00055	-.04321	.00023	-.00100	-.00032
#2	-.00072	-.05402	-.00014	-.00115	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.01000**	**.00003**	**-.0008**	**-.00056**
Stddev	.00008	.00252	.00060	.0092	.00005
%RSD	32.103	25.211	2161.4	1102.	8.2438
#1	-.00020	-.00822	-.00040	-.0073	-.00053
#2	-.00032	-.01178	.00045	.0057	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00034**	**-.01189**	**-.05340**	**-.00069**
Stddev	.00006	.00003	.00005	.03946	.00096
%RSD	35.208	7.4218	.42730	73.890	139.49
#1	.00020	-.00036	-.01185	-.02550	-.00137
#2	.00012	-.00032	-.01192	-.08130	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 0:59:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01081**	**-.00020**	**-.00082**	**.03753**	**-.00064**
Stddev	.00103	.00004	.00009	.00130	.00010
%RSD	9.5074	21.413	11.074	3.4580	16.286
#1	-.01154	-.00017	-.00088	.03845	-.00071
#2	-.01008	-.00024	-.00075	.03661	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00125**	**.00784**	**.00040**	**.00220**
Stddev	.00	.00030	.00001	.00235	.00353
%RSD	.0009	23.827	.18530	584.17	160.25
#1	25.00	-.00104	.00783	-.00126	.00470
#2	25.00	-.00146	.00785	.00206	-.00029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00678**	**.00002**	**-.00024**	**1.005**	**-.00006**
Stddev	.00692	.00015	.00006	.001	.00011
%RSD	102.17	646.07	24.947	.1104	189.48
#1	-.01167	-.00008	-.00020	1.006	-.00014
#2	-.00188	.00013	-.00029	1.004	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 0:59:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00031**	**-.00037**	**1.001**
Stddev	.00058	.00045	.00004	.001
%RSD	277.27	144.87	11.880	.0536
#1	-.00061	-.00062	-.00034	1.000
#2	.00020	.00001	-.00040	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5707.8**	**7115.6**	**31860.**	**88332.**
Stddev	12.7	26.4	50.	587.
%RSD	.22241	.37036	.15704	.66447
#1	5716.8	7134.2	31895.	87917.
#2	5698.9	7096.9	31824.	88747.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.378%	100.71%	108.54%	99.069%
Range				

Sample Name: 480-213043-A-1-A@5 Acquired: 10/10/2023 1:03:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**38.649**	**.02666**	**.05867**	**.65153**
Stddev	.00116	.845	.00022	.00033	.00299
%RSD	507.71	2.1875	.82996	.56675	.45903
#1	.00105	38.051	.02682	.05844	.65365
#2	-.00059	39.246	.02651	.05891	.64942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**173.73**	**.03266**	**-.0865**	**.48161**
Stddev	.00005	2.90	.00007	.0381	.00191
%RSD	4.5985	1.6686	.22690	44.07	.39565
#1	.00100	171.68	.03261	-.1135	.48296
#2	.00107	175.78	.03271	-.0596	.48027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **10.554**	**.30109**	**111.64**	**4.9682**	**.02875**
Stddev	.088	.00090	2.80	.0149	.00096
%RSD	.83278	.29801	2.5119	.29927	3.3374
#1	10.492	.30172	109.66	4.9577	.02808
#2	10.616	.30045	113.62	4.9788	.02943
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 480-213043-A-1-A@5 Acquired: 10/10/2023 1:03:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.149**	**6.8330**	**.73835**	**.52521**	**7.5212**
Stddev	.071	.0170	.00657	.01959	.0256
%RSD	.10878	.24937	.88992	3.7304	.34105
#1	65.199	6.8451	.74300	.51136	7.5394
#2	65.099	6.8210	.73371	.53907	7.5031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.34**	**.21083**	**.82253**	F **-.16388**	**.03512**
Stddev	.00	.00031	.00048	.00116	.00344
%RSD	.0134	.14829	.05895	.70886	9.7906
#1	25.34	.21061	.82219	-.16306	.03269
#2	25.34	.21105	.82287	-.16470	.03755
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5092**	**.02711**	**.26962**	**1.053**	**2.7717**
Stddev	.0179	.00120	.00593	.002	.0013
%RSD	.71323	4.4100	2.1985	.1756	.04701
#1	2.5219	.02795	.26543	1.051	2.7707
#2	2.4966	.02626	.27382	1.054	2.7726
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-1-A@5 Acquired: 10/10/2023 1:03:08 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00207**	**1.6598**	**.16627**	**1.035**
Stddev	.00267	.0010	.00062	.001
%RSD	128.84	.05946	.37167	.0682
#1	.00396	1.6605	.16584	1.034
#2	.00018	1.6591	.16671	1.035
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5164.9**	**6658.7**	**29864.**	**84204.**
Stddev	14.8	16.0	20.	56.
%RSD	.28729	.24095	.06746	.06596
#1	5175.4	6670.1	29878.	84243.
#2	5154.4	6647.4	29850.	84165.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.925%	94.241%	101.74%	94.439%
Range				

Sample Name: 480-213043-A-2-A@10 Acquired: 10/10/2023 1:06:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**10.440**	**.05061**	**.01107**	**.71896**
Stddev	.00009	.478	.00034	.00046	.03009
%RSD	8.4127	4.5790	.66775	4.1220	4.1850
#1	-.00117	10.101	.05085	.01075	.69769
#2	-.00104	10.778	.05038	.01140	.74024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**31.574**	**.00444**	**-.0573**	**1.2833**
Stddev	.00008	1.423	.00018	.0183	.0001
%RSD	111.21	4.5082	4.0960	31.89	.00569
#1	-.00014	30.567	.00431	-.0702	1.2833
#2	-.00002	32.580	.00456	-.0443	1.2832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **35.270**	**.67076**	**186.25**	**1.8213**	**.00782**
Stddev	.351	.00273	9.10	.0582	.00043
%RSD	.99542	.40752	4.8872	3.1977	5.4524
#1	35.022	.66883	179.81	1.7801	.00813
#2	35.519	.67269	192.68	1.8625	.00752
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 480-213043-A-2-A@10 Acquired: 10/10/2023 1:06:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.036**	**3.7215**	**1.7201**	**.25063**	F **20.757**
Stddev	.089	.0075	.0152	.00412	.025
%RSD	.68621	.20116	.88493	1.6450	.12169
#1	12.973	3.7268	1.7308	.24771	20.775
#2	13.100	3.7162	1.7093	.25354	20.740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**.11953**	**.66069**	F **-.51921**	**.00887**
Stddev	.00	.00114	.00013	.00992	.00102
%RSD	.0046	.95379	.01897	1.9110	11.543
#1	25.11	.11872	.66060	-.51219	.00815
#2	25.11	.12033	.66078	-.52622	.00960
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0175**	**.05597**	**.05124**	**1.082**	**1.5913**
Stddev	.0782	.00033	.00245	.001	.0072
%RSD	7.6891	.58702	4.7889	.1285	.45007
#1	.96221	.05620	.04951	1.083	1.5862
#2	1.0729	.05574	.05298	1.081	1.5963
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-2-A@10 Acquired: 10/10/2023 1:06:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00457**	**.33931**	**.35316**	**1.027**
Stddev	.00032	.00268	.00350	.001
%RSD	7.1054	.78976	.99128	.0885
#1	.00480	.33741	.35068	1.027
#2	.00434	.34120	.35563	1.028
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5442.8**	**6848.0**	**31391.**	**87288.**
Stddev	14.4	.4	73.	783.
%RSD	.26461	.00550	.23129	.89750
#1	5453.0	6848.2	31339.	87842.
#2	5432.7	6847.7	31442.	86734.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.764%	96.919%	106.94%	97.897%
Range				

Sample Name: 480-213043-A-2-A@100 Acquired: 10/10/2023 1:10:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**1.0447**	**.00448**	**.00022**	**.07490**
Stddev	.00051	.0660	.00159	.00041	.00120
%RSD	158.22	6.3142	35.556	189.73	1.6003
#1	-.00068	.99809	.00560	-.00007	.07405
#2	.00004	1.0914	.00335	.00051	.07575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**3.1740**	**.00031**	**-.0269**	**.12769**
Stddev	.00005	.1260	.00020	.0282	.00023
%RSD	23.901	3.9705	64.623	104.8	.18186
#1	-.00023	3.0849	.00046	-.0070	.12786
#2	-.00016	3.2631	.00017	-.0469	.12753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5992**	**.06630**	**18.921**	**.13338**	**.00057**
Stddev	.0675	.00164	.738	.00428	.00286
%RSD	1.8742	2.4791	3.8993	3.2085	501.30
#1	3.5515	.06514	18.399	.13641	-.00145
#2	3.6469	.06747	19.443	.13036	.00259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-2-A@100 Acquired: 10/10/2023 1:10:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3069**	**.38122**	**.17376**	**.03604**	**2.0819**
Stddev	.0151	.00576	.00004	.00840	.0016
%RSD	1.1582	1.5097	.02547	23.321	.07867
#1	1.2962	.37715	.17379	.03010	2.0807
#2	1.3176	.38528	.17373	.04198	2.0831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.01160**	**.07298**	F **-.05468**	**.00152**
Stddev	.00	.00002	.01124	.00020	.00266
%RSD	.0030	.14494	15.398	.36738	174.84
#1	25.00	.01161	.06503	-.05454	.00340
#2	25.01	.01159	.08093	-.05482	-.00036
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05414**	**.00554**	**.00494**	**1.013**	**.15720**
Stddev	.00258	.00008	.00029	.001	.00217
%RSD	4.7654	1.4610	5.8244	.1090	1.3809
#1	.05596	.00549	.00473	1.012	.15566
#2	.05231	.00560	.00514	1.014	.15873
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-2-A@100 Acquired: 10/10/2023 1:10:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.03333**	**.04086**	**1.002**
Stddev	.00237	.00050	.00006	.000
%RSD	280.17	1.5072	.14806	.0066
#1	-.00252	.03297	.04082	1.002
#2	.00083	.03368	.04091	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5687.7**	**7130.5**	**32397.**	**90289.**
Stddev	3.9	4.8	211.	433.
%RSD	.06780	.06788	.65180	.47956
#1	5690.4	7134.0	32546.	90595.
#2	5685.0	7127.1	32247.	89983.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.027%	100.92%	110.37%	101.26%
Range				

Sample Name: CCV-7538313 Acquired: 10/10/2023 1:13:38 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96289**	**50.733**	**1.0167**	**1.0017**	**.99058**
Stddev	.00764	.320	.0007	.0007	.00771
%RSD	.79339	.63154	.07115	.07401	.77786
#1	.96829	50.507	1.0172	1.0022	.98513
#2	.95749	50.960	1.0162	1.0011	.99603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0097**	**49.273**	**1.0498**	**.9798**	**1.0170**
Stddev	.0123	.599	.0050	.0080	.0015
%RSD	1.2135	1.2165	.47555	.8143	.14853
#1	1.0010	48.849	1.0533	.9854	1.0181
#2	1.0183	49.697	1.0463	.9741	1.0159
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93607**	**.94953**	**49.626**	**50.254**	**.98734**
Stddev	.00093	.00442	.594	.419	.00545
%RSD	.09979	.46582	1.1966	.83472	.55203
#1	.93540	.95266	49.206	49.958	.98349
#2	.93673	.94640	50.046	50.551	.99120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 1:13:38 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.310**	**.96013**	**.99398**	**50.136**	**1.0161**
Stddev	.183	.00332	.00327	.289	.0025
%RSD	.37016	.34555	.32947	.57699	.24306
#1	49.439	.96247	.99630	49.932	1.0179
#2	49.181	.95778	.99167	50.341	1.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.58**	**1.0158**	**24.311**	**1.0110**	**1.0095**
Stddev	.02	.0028	.077	.0007	.0077
%RSD	.0422	.27721	.31662	.06891	.75867
#1	37.60	1.0178	24.365	1.0105	1.0149
#2	37.57	1.0138	24.256	1.0115	1.0041
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.239**	**1.0022**	**1.0145**	**1.496**	**.95810**
Stddev	.143	.0034	.0107	.002	.00401
%RSD	1.4004	.33390	1.0531	.1599	.41902
#1	10.137	1.0046	1.0070	1.498	.96094
#2	10.340	.99983	1.0221	1.495	.95526
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 1:13:38 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0030**	**.95634**	**.98146**	**1.495**
Stddev	.0078	.00095	.00338	.003
%RSD	.77726	.09896	.34430	.2137
#1	1.0085	.95701	.98385	1.492
#2	.99751	.95567	.97907	1.497
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5215.9**	**6772.9**	**30059.**	**83353.**
Stddev	6.2	6.0	240.	86.
%RSD	.11794	.08811	.79819	.10319
#1	5211.6	6768.7	29890.	83414.
#2	5220.3	6777.1	30229.	83292.

Sample Name: CCB-7506043 Acquired: 10/10/2023 1:16:50 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.02234**	**-.00030**	**.00012**	**-.00026**
Stddev	.00088	.01243	.00073	.00039	.00002
%RSD	233.76	55.648	245.46	310.40	6.8354
#1	-.00100	-.03113	-.00082	.00040	-.00025
#2	.00025	-.01355	.00022	-.00015	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00624**	**.00020**	**-.0290**	**-.00034**
Stddev	.00005	.00320	.00008	.0328	.00026
%RSD	47.282	51.234	42.725	113.0	76.365
#1	-.00014	-.00850	.00026	-.0058	-.00016
#2	-.00007	-.00398	.00014	-.0522	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00041**	**-.00619**	**.04500**	**.00014**
Stddev	.00015	.00074	.00214	.04305	.00043
%RSD	26.673	181.14	34.550	95.674	305.79
#1	.00047	.00093	-.00468	.07545	-.00016
#2	.00068	-.00011	-.00770	.01456	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 1:16:50 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00879**	**.00004**	**.00184**	**.02886**	**-.00041**
Stddev	.00297	.00015	.00037	.01046	.00010
%RSD	33.747	348.41	19.920	36.259	24.295
#1	-.01088	-.00007	.00158	.02146	-.00034
#2	-.00669	.00015	.00210	.03626	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00010**	**.01141**	**.00072**	**.00194**
Stddev	.00	.00076	.00493	.00339	.00109
%RSD	.0030	741.16	43.175	471.08	56.253
#1	25.00	-.00064	.01489	-.00168	.00117
#2	25.00	.00043	.00793	.00312	.00271
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00987**	**-.00020**	**-.00011**	**1.002**	**.00026**
Stddev	.00695	.00060	.00002	.002	.00060
%RSD	70.377	300.79	21.855	.2071	228.35
#1	-.00496	-.00063	-.00013	1.003	-.00016
#2	-.01478	.00023	-.00009	1.000	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 1:16:50 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.00049**	**-.00064**	**.9993**
Stddev	.00169	.00010	.00031	.0009
%RSD	212.60	20.694	48.750	.0948
#1	-.00199	-.00056	-.00087	.9999
#2	.00040	-.00042	-.00042	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5724.6**	**7141.4**	**31755.**	**88946.**
Stddev	8.5	20.4	43.	708.
%RSD	.14830	.28636	.13410	.79597
#1	5730.6	7155.8	31725.	88446.
#2	5718.6	7126.9	31785.	89447.

Sample Name: CCVL-7610998 Acquired: 10/10/2023 1:20:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00551**	**.21760**	**.01532**	**.01865**	**.00167**
Stddev	.00039	.01534	.00249	.00068	.00003
%RSD	7.1669	7.0495	16.247	3.6487	1.6672
#1	.00579	.22845	.01356	.01913	.00169
#2	.00523	.20675	.01708	.01817	.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**.48055**	**.00193**	**.0172**	**.00351**
Stddev	.00010	.00321	.00020	.0129	.00018
%RSD	5.5194	.66901	10.368	75.09	5.0080
#1	.00170	.47828	.00207	.0080	.00363
#2	.00184	.48282	.00179	.0263	.00338
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.00945**	**.03616**	**.46725**	**.03111**
Stddev	.00000	.00030	.00309	.03099	.00278
%RSD	.08562	3.2111	8.5471	6.6325	8.9268
#1	.00419	.00967	.03835	.44533	.02914
#2	.00418	.00924	.03398	.48916	.03307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/10/2023 1:20:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18646**	**.00284**	**.00983**	**1.0543**	**.01015**
Stddev	.00332	.00010	.00000	.0029	.00004
%RSD	1.7792	3.6281	.01839	.27834	.43502
#1	.18411	.00277	.00983	1.0523	.01012
#2	.18881	.00291	.00983	1.0564	.01018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00946**	**.20493**	**.02121**	**.02391**
Stddev	.00	.00008	.00109	.00103	.00089
%RSD	.0034	.85894	.53101	4.8502	3.7398
#1	25.00	.00940	.20570	.02049	.02455
#2	25.00	.00951	.20417	.02194	.02328
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51175**	**.00986**	**.00463**	F **1.004**	**.00456**
Stddev	.00862	.00012	.00012	.002	.00065
%RSD	1.6838	1.2398	2.5654	.2134	14.162
#1	.50565	.00995	.00455	1.006	.00410
#2	.51784	.00977	.00471	1.003	.00501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/10/2023 1:20:15 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01898**	**.00414**	**.00950**	F **1.001**
Stddev	.00240	.00015	.00046	.001
%RSD	12.628	3.5309	4.8277	.0668
#1	.02067	.00424	.00983	1.000
#2	.01728	.00403	.00918	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5552.7**	**6955.0**	**31145.**	**86337.**
Stddev	3.9	.0	314.	87.
%RSD	.07053	.00035	1.0086	.10101
#1	5550.0	6955.0	31367.	86399.
#2	5555.5	6955.0	30923.	86275.

Sample Name: 480-213043-A-3-A@5 Acquired: 10/10/2023 1:23:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**27.603**	**.08408**	**.11927**	**.47268**
Stddev	.00059	.267	.00053	.00124	.00854
%RSD	178.55	.96569	.62840	1.0430	1.8069
#1	.00009	27.414	.08371	.12015	.46664
#2	-.00075	27.791	.08445	.11839	.47872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**222.26**	**.00695**	**.2438**	**.25808**
Stddev	.00000	10.39	.00036	.0375	.00421
%RSD	.04115	4.6761	5.1727	15.37	1.6322
#1	.00042	214.91	.00720	.2702	.26106
#2	.00042	229.60	.00669	.2173	.25510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **30.206**	**.75527**	**229.33**	**1.0435**	**.03040**
Stddev	.450	.01392	2.30	.0005	.00213
%RSD	1.4911	1.8426	1.0018	.04696	7.0054
#1	29.888	.74543	227.70	1.0432	.02890
#2	30.525	.76511	230.95	1.0439	.03191
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 480-213043-A-3-A@5 Acquired: 10/10/2023 1:23:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**128.98**	**10.865**	**2.4646**	**.70929**	F **46.140**
Stddev	2.42	.192	.0448	.02170	.663
%RSD	1.8766	1.7672	1.8192	3.0598	1.4365
#1	127.26	10.730	2.4963	.72463	46.609
#2	130.69	11.001	2.4329	.69394	45.671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**.23283**	**1.6328**	F **-.45720**	**.01824**
Stddev	.00	.00042	.0119	.01990	.00501
%RSD	.0093	.18209	.73069	4.3536	27.475
#1	25.11	.23313	1.6413	-.44312	.01470
#2	25.11	.23253	1.6244	-.47127	.02179
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15823**	**.03364**	**.26407**	**1.107**	**7.5564**
Stddev	.04940	.00178	.00301	.006	.1233
%RSD	31.217	5.2922	1.1396	.5502	1.6319
#1	.19316	.03490	.26194	1.102	7.4692
#2	.12331	.03238	.26620	1.111	7.6436
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-3-A@5 Acquired: 10/10/2023 1:23:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00222**	**.65898**	**.43221**	**1.050**
Stddev	.00047	.01205	.00767	.000
%RSD	21.032	1.8284	1.7755	.0267
#1	-.00255	.65046	.42678	1.050
#2	-.00189	.66750	.43764	1.050
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4932.0**	**6483.3**	**29934.**	**83560.**
Stddev	4.2	3.5	555.	121.
%RSD	.08592	.05372	1.8534	.14526
#1	4929.0	6480.8	30326.	83474.
#2	4935.0	6485.7	29542.	83646.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.869%	91.757%	101.98%	93.717%
Range				

Sample Name: 480-213043-A-3-A@100 Acquired: 10/10/2023 1:27:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**1.2274**	**.00460**	**.00525**	**.02216**
Stddev	.00036	.0988	.00006	.00027	.00033
%RSD	54.583	8.0454	1.2968	5.0654	1.5015
#1	-.00092	1.1575	.00456	.00506	.02193
#2	-.00041	1.2972	.00465	.00544	.02240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**10.609**	**.00027**	**.0188**	**.01173**
Stddev	.00001	.420	.00031	.0161	.00002
%RSD	6.1887	3.9562	115.69	85.86	.13409
#1	-.00019	10.313	.00049	.0302	.01174
#2	-.00020	10.906	.00005	.0074	.01172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5321**	**.03635**	**10.790**	**.01063**	**-.00294**
Stddev	.0384	.00124	.401	.02859	.00267
%RSD	2.5077	3.4227	3.7200	268.84	90.773
#1	1.5050	.03547	10.507	-.00958	-.00482
#2	1.5593	.03723	11.074	.03085	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-3-A@100 Acquired: 10/10/2023 1:27:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3146**	**.56546**	**.12321**	**.02376**	**2.2289**
Stddev	.0934	.01105	.00030	.00424	.0053
%RSD	1.4788	1.9543	.24642	17.844	.23978
#1	6.2485	.55765	.12343	.02076	2.2327
#2	6.3806	.57328	.12300	.02676	2.2251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.01144**	**.07785**	F **-.02422**	**.00433**
Stddev	.00	.00008	.00045	.00257	.00078
%RSD	.0016	.69667	.57865	10.600	18.006
#1	25.00	.01138	.07817	-.02241	.00378
#2	25.00	.01150	.07753	-.02604	.00488
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01622**	**.00158**	**.01181**	**1.010**	**.36689**
Stddev	.02043	.00000	.00046	.001	.00740
%RSD	125.99	.29396	3.9036	.0909	2.0178
#1	-.03066	.00158	.01148	1.010	.36166
#2	-.00177	.00158	.01214	1.009	.37213
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-3-A@100 Acquired: 10/10/2023 1:27:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00071**	**.03132**	**.02449**	**1.001**
Stddev	.00101	.00090	.00062	.000
%RSD	142.17	2.8822	2.5492	.0033
#1	.00142	.03068	.02405	1.001
#2	-.00000	.03196	.02494	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5669.4**	**7086.4**	**31787.**	**89953.**
Stddev	4.6	16.9	359.	682.
%RSD	.08196	.23797	1.1307	.75797
#1	5672.6	7098.3	32041.	90435.
#2	5666.1	7074.4	31533.	89470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.708%	100.29%	108.30%	100.89%
Range				

Sample Name: 480-213043-A-6@10 Acquired: 10/10/2023 1:30:43 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**12.128**	**.00992**	**.01326**	**.84115**
Stddev	.00051	.516	.00040	.00011	.03699
%RSD	503.77	4.2514	4.0346	.83609	4.3973
#1	.00046	11.764	.00964	.01319	.81499
#2	-.00026	12.493	.01021	.01334	.86730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**23.075**	**.01493**	**-.0161**	**.23014**
Stddev	.00003	.963	.00018	.0287	.00023
%RSD	17.431	4.1729	1.2112	178.0	.09830
#1	.00020	22.395	.01481	.0042	.23030
#2	.00016	23.756	.01506	-.0365	.22998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5170**	**.24825**	**34.283**	**1.0353**	**.00698**
Stddev	.1298	.00514	1.632	.0081	.00172
%RSD	2.8735	2.0703	4.7589	.78676	24.707
#1	4.4252	.24462	33.129	1.0295	.00819
#2	4.6087	.25189	35.436	1.0410	.00576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-6@10 Acquired: 10/10/2023 1:30:43 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4826**	**3.2258**	**.27856**	**.31973**	**2.6681**
Stddev	.1711	.1223	.00130	.00991	.0057
%RSD	2.2867	3.7910	.46653	3.0985	.21361
#1	7.3616	3.1393	.27948	.31272	2.6721
#2	7.6036	3.3123	.27764	.32673	2.6640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.18**	**.23256**	**.59492**	F **-.06494**	**.00632**
Stddev	.00	.00197	.00119	.00453	.00049
%RSD	.0003	.84589	.20011	6.9786	7.6870
#1	25.18	.23395	.59408	-.06174	.00598
#2	25.18	.23117	.59576	-.06815	.00666
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2219**	**.01418**	**.04632**	**1.020**	**1.3394**
Stddev	.0371	.00020	.00247	.003	.0300
%RSD	3.0336	1.4017	5.3387	.2608	2.2387
#1	1.1957	.01404	.04457	1.018	1.3182
#2	1.2481	.01432	.04807	1.021	1.3607
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-6@10 Acquired: 10/10/2023 1:30:43 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00239**	**.16739**	**.10841**	**1.012**
Stddev	.00022	.00329	.00301	.001
%RSD	8.9946	1.9653	2.7780	.0455
#1	-.00224	.16506	.10628	1.012
#2	-.00254	.16971	.11054	1.013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5591.4**	**7023.7**	**31665.**	**88259.**
Stddev	11.5	3.4	712.	1219.
%RSD	.20538	.04859	2.2493	1.3810
#1	5599.6	7026.2	32169.	89121.
#2	5583.3	7021.3	31162.	87397.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.351%	99.407%	107.88%	98.986%
Range				

Sample Name: 480-213043-A-7-A@5 Acquired: 10/10/2023 1:34:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00158**	**33.248**	**.10416**	**.02982**	**.42397**
Stddev	.00086	1.217	.00190	.00022	.00069
%RSD	54.293	3.6595	1.8241	.72678	.16359
#1	-.00219	32.388	.10281	.02967	.42348
#2	-.00098	34.108	.10550	.02998	.42446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**39.043**	**.00857**	**.0047**	**.78895**
Stddev	.00008	1.110	.00034	.0182	.00348
%RSD	22.709	2.8422	3.9214	383.2	.44054
#1	.00030	38.258	.00834	-.0081	.79140
#2	.00041	39.828	.00881	.0176	.78649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7971**	**2.5442**	**286.70**	**1.8812**	**.01469**
Stddev	.1176	.0262	9.18	.0569	.00155
%RSD	2.0279	1.0294	3.2022	3.0266	10.570
#1	5.7139	2.5257	280.21	1.8409	.01359
#2	5.8802	2.5627	293.19	1.9215	.01579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-7-A@5 Acquired: 10/10/2023 1:34:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.426**	**3.4852**	**.37203**	**.53781**	F **19.178**
Stddev	.197	.0043	.00246	.01809	.106
%RSD	1.0166	.12393	.66021	3.3636	.55383
#1	19.287	3.4821	.37377	.52501	19.254
#2	19.566	3.4882	.37030	.55060	19.103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.17**	**.27614**	**.24586**	F **-.10297**	**.01401**
Stddev	.00	.00010	.00039	.00417	.00054
%RSD	.0040	.03701	.16030	4.0505	3.8200
#1	25.17	.27622	.24559	-.10002	.01364
#2	25.17	.27607	.24614	-.10592	.01439
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0609**	**.13466**	**.08367**	**1.136**	**.81277**
Stddev	.1082	.00148	.00234	.003	.00881
%RSD	2.6651	1.0977	2.7947	.2418	1.0835
#1	3.9843	.13571	.08202	1.134	.80655
#2	4.1374	.13362	.08533	1.138	.81900
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-7-A@5 Acquired: 10/10/2023 1:34:12 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.13088**	**.27991**	**1.016**
Stddev	.00101	.00229	.00228	.001
%RSD	79.422	1.7482	.81502	.0999
#1	-.00198	.12926	.27830	1.015
#2	-.00056	.13250	.28153	1.017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5319.6**	**6846.1**	**30781.**	**85546.**
Stddev	20.7	25.0	387.	607.
%RSD	.38889	.36508	1.2576	.70941
#1	5305.0	6828.4	31055.	85975.
#2	5334.3	6863.8	30508.	85117.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.619%	96.892%	104.87%	95.944%
Range				

Sample Name: 480-213043-A-7-A@20 Acquired: 10/10/2023 1:37:42 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**9.1760**	**.02849**	**.00830**	**.12235**
Stddev	.00030	.3715	.00037	.00030	.00228
%RSD	31.660	4.0489	1.3161	3.6159	1.8597
#1	-.00117	8.9133	.02875	.00809	.12074
#2	-.00074	9.4387	.02822	.00851	.12395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**10.727**	**.00219**	**.0025**	**.23141**
Stddev	.00009	.484	.00013	.0001	.00117
%RSD	78.028	4.5133	5.7277	5.396	.50434
#1	-.00018	10.385	.00210	.0026	.23058
#2	-.00005	11.070	.00228	.0024	.23223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6589**	**.71352**	**79.135**	**.41917**	**.00292**
Stddev	.0465	.02255	3.860	.00898	.00105
%RSD	2.8019	3.1599	4.8775	2.1419	36.063
#1	1.6260	.69758	76.406	.41282	.00366
#2	1.6918	.72946	81.864	.42552	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-7-A@20 Acquired: 10/10/2023 1:37:42 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6008**	**1.0218**	**.11077**	**.14126**	**5.6654**
Stddev	.1442	.0276	.00065	.00710	.0316
%RSD	2.5739	2.7034	.58548	5.0297	.55856
#1	5.4988	1.0023	.11031	.13624	5.6430
#2	5.7027	1.0414	.11123	.14628	5.6877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.08052**	**.06763**	F **-.02537**	**.00625**
Stddev	.00	.00143	.00050	.00102	.00013
%RSD	.0006	1.7704	.73441	4.0286	2.0996
#1	25.05	.07952	.06798	-.02465	.00616
#2	25.05	.08153	.06728	-.02609	.00634
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1124**	**.03991**	**.02281**	**1.040**	**.23127**
Stddev	.0423	.00033	.00089	.003	.00629
%RSD	3.8048	.81786	3.9228	.3135	2.7185
#1	1.0825	.03968	.02218	1.037	.22682
#2	1.1423	.04014	.02344	1.042	.23572
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213043-A-7-A@20 Acquired: 10/10/2023 1:37:42 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.03731**	**.08081**	**1.003**
Stddev	.00029	.00073	.00301	.000
%RSD	80.873	1.9601	3.7210	.0283
#1	-.00015	.03679	.07868	1.003
#2	-.00056	.03783	.08293	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5554.1**	**7019.4**	**32028.**	**88432.**
Stddev	9.3	12.2	687.	185.
%RSD	.16809	.17331	2.1463	.20937
#1	5560.7	7028.0	32515.	88563.
#2	5547.5	7010.8	31542.	88301.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.701%	99.345%	109.12%	99.181%
Range				

Sample Name: rinse Acquired: 10/10/2023 1:40:59 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**-.02736**	**-.00006**	**-.00112**	**-.00028**
Stddev	.00056	.00747	.00011	.00021	.00002
%RSD	55.747	27.316	187.94	19.068	6.7007
#1	-.00061	-.02208	.00002	-.00097	-.00027
#2	-.00140	-.03264	-.00014	-.00127	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.01816**	**-.00026**	**-.0077**	**-.00063**
Stddev	.00007	.00239	.00019	.0202	.00002
%RSD	26.317	13.155	72.140	262.4	3.4468
#1	-.00021	-.01647	-.00013	-.0220	-.00061
#2	-.00031	-.01985	-.00039	.0066	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00021**	**-.00834**	**-.06616**	**-.00220**
Stddev	.00005	.00049	.00569	.00937	.00134
%RSD	13.606	233.73	68.194	14.162	60.998
#1	-.00041	-.00014	-.00432	-.05953	-.00125
#2	-.00033	.00056	-.01236	-.07279	-.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 1:40:59 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01247**	**-.00025**	**-.00004**	**-.02427**	**-.00018**
Stddev	.00226	.00003	.00012	.00374	.00036
%RSD	18.139	10.577	274.21	15.406	202.15
#1	-.01407	-.00027	-.00013	-.02163	-.00043
#2	-.01087	-.00023	.00004	-.02692	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**.00012**	**-.00479**	**.00050**	**-.00118**
Stddev	.00	.00019	.00111	.00043	.00058
%RSD	.0020	157.03	23.203	84.459	49.456
#1	25.00	.00026	-.00557	.00080	-.00077
#2	24.99	-.00001	-.00400	.00020	-.00159
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00216**	**-.00004**	**-.00018**	**1.003**	**.00003**
Stddev	.00478	.00011	.00004	.001	.00062
%RSD	220.97	300.03	21.841	.1381	1956.9
#1	-.00555	-.00011	-.00021	1.004	-.00040
#2	.00122	.00004	-.00015	1.002	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 1:40:59 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00048**	**-.00061**	**-.00065**	**1.001**
Stddev	.00139	.00070	.00002	.000
%RSD	290.77	116.35	3.7538	.0449
#1	.00050	-.00110	-.00063	1.000
#2	-.00146	-.00011	-.00066	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5739.0**	**7145.6**	**31919.**	**88197.**
Stddev	4.1	7.6	236.	332.
%RSD	.07074	.10664	.73791	.37636
#1	5736.2	7140.2	32086.	87962.
#2	5741.9	7151.0	31753.	88431.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.921%	101.13%	108.75%	98.917%
Range				

Sample Name: MB 480-685286/1-A Acquired: 10/10/2023 1:44:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	F **-.04869**	**.00054**	**-.00069**	**-.00016**
Stddev	.00044	.01442	.00191	.00021	.00004
%RSD	128.36	29.616	357.78	30.454	27.385
#1	-.00003	-.03849	.00189	-.00054	-.00013
#2	-.00065	-.05888	-.00082	-.00083	-.00019
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.04000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.01781**	**.00031**	**-.0132**	**-.00049**
Stddev	.00008	.00386	.00042	.0132	.00011
%RSD	37.066	21.670	134.09	99.83	21.906
#1	-.00027	.01508	.00002	-.0039	-.00041
#2	-.00016	.02054	.00061	-.0225	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00145**	**-.00327**	**-.04340**	**.00174**
Stddev	.00015	.00085	.00327	.01150	.00269
%RSD	15.957	58.591	99.880	26.497	154.11
#1	.00085	.00205	-.00558	-.05154	-.00016
#2	.00106	.00085	-.00096	-.03527	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685286/1-A Acquired: 10/10/2023 1:44:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00618**	**.00045**	**-.00025**	**.00053**	**.00203**
Stddev	.00227	.00002	.00036	.00631	.00094
%RSD	36.763	3.3880	143.29	1190.5	46.585
#1	-.00457	.00046	.00000	.00499	.00269
#2	-.00778	.00044	-.00051	-.00393	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00097**	**.02556**	**.00047**	**.00143**
Stddev	.00	.00080	.00779	.00051	.00134
%RSD	.0028	82.409	30.472	108.25	93.461
#1	25.00	-.00154	.03107	.00011	.00049
#2	25.00	-.00041	.02006	.00083	.00238
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**-.00038**	**-.00018**	**.9954**	**.00040**
Stddev	.00901	.00030	.00008	.0077	.00021
%RSD	646.25	79.808	41.859	.7717	51.714
#1	.00498	-.00059	-.00023	1.001	.00055
#2	-.00776	-.00016	-.00013	.9900	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685286/1-A Acquired: 10/10/2023 1:44:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00179**	**-.00019**	**.00128**	**.9996**
Stddev	.00031	.00023	.00030	.0008
%RSD	17.176	121.27	23.637	.0798
#1	-.00157	-.00035	.00149	1.000
#2	-.00201	-.00003	.00107	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5605.1**	**7040.4**	**32092.**	**87618.**
Stddev	4.7	11.1	73.	48.
%RSD	.08356	.15828	.22883	.05475
#1	5608.4	7048.3	32144.	87584.
#2	5601.8	7032.5	32040.	87651.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.589%	99.642%	109.33%	98.267%
Range				

Sample Name: LCS 480-685286/2-A Acquired: 10/10/2023 1:47:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04494**	**10.508**	**.21180**	**.20209**	**.20590**
Stddev	.00025	.140	.00077	.00081	.00049
%RSD	.55679	1.3292	.36327	.40151	.23975
#1	.04476	10.409	.21235	.20266	.20555
#2	.04511	10.606	.21126	.20151	.20625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20956**	**10.035**	**.21922**	**.0228**	**.21536**
Stddev	.00223	.151	.00014	.0152	.00030
%RSD	1.0631	1.5027	.06401	66.51	.14086
#1	.20798	9.9286	.21912	.0121	.21558
#2	.21113	10.142	.21932	.0336	.21515
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19377**	**.19093**	**10.222**	**10.439**	**.20113**
Stddev	.00002	.00100	.113	.090	.00048
%RSD	.00832	.52546	1.1054	.86674	.23901
#1	.19378	.19164	10.142	10.375	.20147
#2	.19376	.19022	10.302	10.503	.20079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685286/2-A Acquired: 10/10/2023 1:47:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9295**	**.20439**	**.20546**	**10.407**	**.21051**
Stddev	.0410	.00062	.00200	.079	.00010
%RSD	.41239	.30433	.97535	.76086	.04827
#1	9.9005	.20395	.20687	10.351	.21058
#2	9.9584	.20483	.20404	10.463	.21044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.21478**	**9.9662**	F **.23031**	**.20596**
Stddev	.00	.00282	.0442	.00035	.00314
%RSD	.0008	1.3147	.44379	.15206	1.5250
#1	25.00	.21677	9.9974	.23006	.20818
#2	25.00	.21278	9.9349	.23056	.20374
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.435**	**.20581**	**.20944**	**1.010**	**.20003**
Stddev	.150	.00098	.00265	.008	.00025
%RSD	1.4378	.47484	1.2664	.7873	.12302
#1	10.328	.20650	.20757	1.016	.19986
#2	10.541	.20512	.21132	1.005	.20020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685286/2-A Acquired: 10/10/2023 1:47:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20900**	**.19482**	**.19715**	**1.001**
Stddev	.00120	.00008	.00101	.000
%RSD	.57643	.03921	.51106	.0419
#1	.20814	.19477	.19644	1.001
#2	.20985	.19488	.19787	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5519.3**	**6997.8**	**31375.**	**86603.**
Stddev	18.2	38.0	98.	91.
%RSD	.33019	.54260	.31141	.10490
#1	5506.4	6970.9	31306.	86539.
#2	5532.1	7024.6	31444.	86668.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.094%	99.039%	106.89%	97.130%
Range				

Sample Name: 480-213088-C-1-A Acquired: 10/10/2023 1:50:58 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00699**	**.01830**	**.22036**	**.02618**
Stddev	.00018	.01368	.00076	.00227	.00005
%RSD	34.787	195.84	4.1449	1.0317	.17641
#1	-.00039	.00269	.01884	.22196	.02615
#2	-.00065	-.01666	.01776	.21875	.02621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**241.15**	**.00050**	**-.0046**	**.00094**
Stddev	.00009	.49	.00035	.0148	.00008
%RSD	38.005	.20406	70.040	320.5	8.0963
#1	-.00031	240.81	.00025	-.0151	.00089
#2	-.00018	241.50	.00074	.0058	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00272**	**.00617**	**5.0746**	**13.441**	**.12224**
Stddev	.00104	.00042	.0301	.053	.01261
%RSD	38.104	6.8435	.59395	.39263	10.318
#1	.00199	.00587	5.0533	13.404	.11332
#2	.00345	.00646	5.0959	13.478	.13116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-1-A Acquired: 10/10/2023 1:50:58 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**88.217**	**.83063**	**.01037**	F **1886.4**	**.00621**
Stddev	.068	.00009	.00002	5.8	.00090
%RSD	.07754	.01092	.15097	.30998	14.506
#1	88.168	.83069	.01038	1882.3	.00557
#2	88.265	.83057	.01036	1890.5	.00685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00082**	F **432.36**	**.00016**	**-.00828**
Stddev	.00	.00044	.23	.00088	.00075
%RSD	.0002	53.210	.05263	558.53	9.0764
#1	25.05	.00113	432.52	-.00046	-.00775
#2	25.05	.00051	432.20	.00078	-.00881
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.364**	**.00059**	**1.4931**	**1.008**	**.00222**
Stddev	.041	.00108	.0045	.000	.00080
%RSD	.33095	183.66	.30202	.0137	36.252
#1	12.335	-.00018	1.4899	1.009	.00165
#2	12.393	.00135	1.4963	1.008	.00278
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-1-A Acquired: 10/10/2023 1:50:58 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00628**	**.00116**	**.00476**	**.9993**
Stddev	.00054	.00052	.00039	.0004
%RSD	8.6146	44.317	8.1708	.0445
#1	.00666	.00080	.00503	.9996
#2	.00590	.00153	.00448	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4618.1**	**6279.9**	**28489.**	**77097.**
Stddev	9.0	17.9	67.	467.
%RSD	.19525	.28447	.23409	.60543
#1	4611.7	6267.3	28442.	76767.
#2	4624.4	6292.5	28536.	77427.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.404%	88.879%	97.059%	86.468%
Range				

Sample Name: CCV-7538313 Acquired: 10/10/2023 1:54:28 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95023**	**51.025**	**1.0070**	**.99847**	**.99022**
Stddev	.00139	.234	.0004	.00227	.00421
%RSD	.14619	.45807	.04280	.22768	.42518
#1	.94925	50.860	1.0073	1.0001	.98724
#2	.95122	51.190	1.0067	.99686	.99320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0103**	**49.102**	**1.0605**	**.9948**	**1.0128**
Stddev	.0041	.158	.0018	.0001	.0018
%RSD	.40510	.32115	.16961	.0051	.17826
#1	1.0074	48.990	1.0592	.9947	1.0140
#2	1.0132	49.213	1.0618	.9948	1.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92450**	**.93724**	**49.500**	**50.309**	**1.0039**
Stddev	.00576	.00221	.365	.110	.0006
%RSD	.62319	.23620	.73749	.21849	.06044
#1	.92043	.93568	49.242	50.232	1.0035
#2	.92858	.93881	49.759	50.387	1.0043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 1:54:28 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.624**	**.94801**	**.98577**	**50.135**	**1.0128**
Stddev	.089	.00125	.00365	.178	.0030
%RSD	.18359	.13168	.37076	.35566	.29369
#1	48.687	.94713	.98836	50.009	1.0149
#2	48.561	.94889	.98319	50.261	1.0107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.55**	**1.0131**	**24.142**	**1.0101**	**1.0040**
Stddev	.01	.0025	.024	.0021	.0028
%RSD	.0332	.24580	.10088	.20777	.27765
#1	37.55	1.0149	24.125	1.0116	1.0060
#2	37.54	1.0114	24.159	1.0086	1.0021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.379**	**.99667**	**1.0157**	**1.496**	**.94470**
Stddev	.096	.00207	.0051	.003	.00182
%RSD	.92157	.20784	.50571	.1840	.19237
#1	10.312	.99813	1.0121	1.494	.94342
#2	10.447	.99520	1.0193	1.498	.94599
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 1:54:28 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99493**	**.94781**	**.96758**	**1.495**
Stddev	.00101	.00254	.00366	.002
%RSD	.10183	.26799	.37794	.1173
#1	.99565	.94601	.97017	1.493
#2	.99422	.94960	.96499	1.496
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5233.8**	**6800.8**	**30496.**	**83209.**
Stddev	17.4	12.5	128.	677.
%RSD	.33333	.18441	.42025	.81329
#1	5221.5	6791.9	30405.	82730.
#2	5246.2	6809.6	30586.	83687.

Sample Name: CCB-7506043 Acquired: 10/10/2023 1:57:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.04956**	**.00096**	**-.00050**	**-.00027**
Stddev	.00008	.01643	.00160	.00065	.00001
%RSD	26.851	33.149	165.73	130.72	3.3706
#1	.00034	-.03794	-.00017	-.00004	-.00026
#2	.00023	-.06117	.00209	-.00096	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00930**	**-.00036**	**-.0058**	**-.00022**
Stddev	.00019	.00264	.00065	.0221	.00002
%RSD	171.89	28.397	177.51	381.3	10.379
#1	.00002	-.01117	-.00082	-.0214	-.00020
#2	-.00025	-.00743	.00009	.0098	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00041**	**-.00623**	**.09171**	**.00194**
Stddev	.00006	.00001	.00696	.02012	.00137
%RSD	85.203	2.8504	111.75	21.940	70.394
#1	.00003	-.00040	-.00131	.10594	.00291
#2	.00012	-.00042	-.01114	.07748	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 1:57:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00946**	**-.00014**	**.00143**	**.43304**	**-.00042**
Stddev	.00004	.00004	.00029	.00390	.00033
%RSD	.45560	29.404	20.082	.89948	79.922
#1	-.00949	-.00017	.00123	.43580	-.00065
#2	-.00943	-.00011	.00164	.43029	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00014**	**.04950**	**.00027**	**.00216**
Stddev	.00	.00028	.00121	.00171	.00053
%RSD	.0011	197.50	2.4367	645.11	24.734
#1	25.00	-.00034	.05036	.00148	.00254
#2	25.00	.00006	.04865	-.00095	.00178
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00008**	**-.00017**	**.9992**	**.00017**
Stddev	.00665	.00033	.00001	.0026	.00082
%RSD	1718.8	416.50	8.3781	.2592	466.64
#1	-.00432	-.00015	-.00016	.9974	-.00040
#2	.00509	.00031	-.00018	1.001	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 1:57:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00042**	**-.00044**	**.9998**
Stddev	.00032	.00022	.00021	.0007
%RSD	78.326	50.911	47.715	.0670
#1	.00063	-.00027	-.00029	1.000
#2	.00018	-.00058	-.00059	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5731.8**	**7145.9**	**31757.**	**87656.**
Stddev	.6	4.1	206.	121.
%RSD	.01005	.05727	.64844	.13836
#1	5732.2	7148.8	31612.	87570.
#2	5731.4	7143.0	31903.	87742.

Sample Name: CCVL-7610998 Acquired: 10/10/2023 2:01:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**.14893**	**.01300**	**.01894**	**.00164**
Stddev	.00005	.07326	.00184	.00025	.00003
%RSD	.94747	49.189	14.123	1.2958	1.6651
#1	.00550	.09713	.01430	.01911	.00162
#2	.00557	.20073	.01170	.01877	.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**.46366**	**.00199**	**-.0159**	**.00361**
Stddev	.00015	.01855	.00033	.0173	.00004
%RSD	8.2127	4.0007	16.365	108.9	1.2243
#1	.00166	.45054	.00176	-.0036	.00358
#2	.00187	.47678	.00223	-.0281	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**.01040**	W **.03179**	**.51416**	**.03292**
Stddev	.00021	.00004	.00399	.00823	.00022
%RSD	5.2477	.39586	12.536	1.6015	.68206
#1	.00413	.01043	.02898	.50834	.03308
#2	.00384	.01037	.03461	.51999	.03276
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value			.05000		
Range			-30.000%		

Sample Name: CCVL-7610998 Acquired: 10/10/2023 2:01:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17901**	**.00273**	**.00971**	**1.2488**	**.00991**
Stddev	.00085	.00007	.00001	.0280	.00013
%RSD	.47368	2.5902	.11855	2.2386	1.3594
#1	.17841	.00268	.00970	1.2290	.01001
#2	.17961	.00278	.00972	1.2686	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00875**	**.22165**	**.02262**	**.02378**
Stddev	.00	.00068	.00382	.00155	.00090
%RSD	.0011	7.7834	1.7218	6.8661	3.7889
#1	25.00	.00924	.22435	.02152	.02314
#2	25.00	.00827	.21896	.02371	.02441
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47300**	**.01012**	**.00473**	F **1.001**	**.00475**
Stddev	.02786	.00006	.00024	.001	.00007
%RSD	5.8893	.60530	5.0924	.1041	1.3823
#1	.45330	.01008	.00456	1.001	.00479
#2	.49270	.01016	.00490	.9998	.00470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/10/2023 2:01:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01858**	**.00478**	**.00922**	F **1.000**
Stddev	.00100	.00008	.00058	.000
%RSD	5.3766	1.7769	6.2795	.0411
#1	.01787	.00484	.00881	1.001
#2	.01929	.00472	.00962	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5587.5**	**6985.8**	**31686.**	**87388.**
Stddev	.6	4.1	485.	288.
%RSD	.01050	.05864	1.5310	.32966
#1	5587.1	6988.7	32029.	87592.
#2	5588.0	6982.9	31343.	87185.

Sample Name: 480-213088-C-1-A Acquired: 10/10/2023 2:04:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.03612**	**.00418**	**.04316**	**.00501**
Stddev	.00041	.01892	.00124	.00009	.00008
%RSD	34.532	52.384	29.645	.21034	1.5346
#1	-.00147	-.04950	.00505	.04323	.00495
#2	-.00089	-.02274	.00330	.04310	.00506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**45.344**	**.00020**	**.0232**	**-.00038**
Stddev	.00009	1.321	.00073	.0177	.00004
%RSD	37.837	2.9139	355.96	75.97	10.575
#1	-.00029	44.410	-.00031	.0108	-.00041
#2	-.00017	46.279	.00072	.0357	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00047**	**.91043**	**2.3122**	**.01604**
Stddev	.00010	.00010	.02780	.0222	.00139
%RSD	371.25	21.622	3.0531	.96191	8.6799
#1	-.00004	.00055	.89078	2.2965	.01506
#2	.00010	.00040	.93009	2.3279	.01703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-1-A Acquired: 10/10/2023 2:04:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.742**	**.16606**	**.00134**	**343.72**	**.00104**
Stddev	.212	.00208	.00029	6.88	.00030
%RSD	1.1944	1.2523	21.639	2.0020	28.570
#1	17.592	.16459	.00113	338.85	.00083
#2	17.891	.16753	.00154	348.59	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00036**	**85.402**	**-.00098**	**-.00395**
Stddev	.00	.00000	.268	.00183	.00441
%RSD	.0001	1.3104	.31433	186.91	111.81
#1	25.01	-.00037	85.592	-.00227	-.00707
#2	25.01	-.00036	85.212	.00031	-.00083
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2385**	**.00009**	**.27204**	**1.005**	**.00020**
Stddev	.0756	.00013	.00777	.001	.00017
%RSD	3.3760	146.76	2.8565	.1259	88.097
#1	2.1850	-.00000	.26655	1.004	.00032
#2	2.2919	.00017	.27754	1.006	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-1-A Acquired: 10/10/2023 2:04:27 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00185**	**-.00031**	**.00060**	**.9989**
Stddev	.00049	.00026	.00014	.0011
%RSD	26.369	82.595	24.125	.1065
#1	.00151	-.00013	.00050	.9997
#2	.00220	-.00049	.00070	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5213.1**	**6815.4**	**31116.**	**84866.**
Stddev	7.3	4.2	282.	128.
%RSD	.14065	.06233	.90669	.15113
#1	5218.3	6812.3	31315.	84775.
#2	5207.9	6818.4	30916.	84957.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.764%	96.457%	106.01%	95.181%
Range				

Sample Name: 480-213088-C-2-A Acquired: 10/10/2023 2:07:54 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.01799**	**.00110**	**.41208**	**1.6119**
Stddev	.00025	.00063	.00145	.00146	.0068
%RSD	42.668	3.4915	131.62	.35544	.42236
#1	-.00077	-.01754	.00008	.41311	1.6071
#2	-.00041	-.01843	.00213	.41104	1.6167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**267.83**	**.00018**	**-.0756**	**-.00048**
Stddev	.00004	1.41	.00086	.0274	.00006
%RSD	15.567	.52552	463.96	36.23	11.640
#1	-.00027	268.83	.00079	-.0950	-.00044
#2	-.00022	266.84	-.00042	-.0562	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**.00495**	**3.0290**	**15.937**	**.06453**
Stddev	.00045	.00083	.0296	.076	.00010
%RSD	13.281	16.661	.97668	.47664	.16089
#1	.00371	.00554	3.0081	15.991	.06445
#2	.00307	.00437	3.0499	15.883	.06460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-2-A Acquired: 10/10/2023 2:07:54 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.075**	**.69965**	**.00039**	**125.76**	**.00036**
Stddev	.064	.00354	.00006	.63	.00005
%RSD	.16379	.50638	14.633	.50161	12.435
#1	39.120	.70216	.00043	126.21	.00033
#2	39.030	.69715	.00035	125.31	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**-.00073**	**7.2703**	**.00066**	**-.00358**
Stddev	.00	.00078	.0250	.00058	.00012
%RSD	.0007	106.16	.34404	88.205	3.3327
#1	25.11	-.00128	7.2879	.00025	-.00350
#2	25.11	-.00018	7.2526	.00107	-.00367
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.309**	**-.00087**	**1.1643**	**1.009**	**.00218**
Stddev	.031	.00045	.0006	.005	.00014
%RSD	.18080	51.378	.04951	.4820	6.6254
#1	17.287	-.00056	1.1647	1.013	.00228
#2	17.331	-.00119	1.1639	1.006	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-2-A Acquired: 10/10/2023 2:07:54 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00287**	**-.00011**	**.00169**	**.9988**
Stddev	.00155	.00019	.00003	.0011
%RSD	54.231	178.36	1.9757	.1131
#1	.00177	.00003	.00171	.9996
#2	.00397	-.00025	.00166	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5138.4**	**6675.0**	**30638.**	**83347.**
Stddev	10.1	12.8	278.	476.
%RSD	.19671	.19137	.90855	.57071
#1	5131.2	6666.0	30441.	83010.
#2	5145.5	6684.1	30835.	83683.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.463%	94.471%	104.38%	93.477%
Range				

Sample Name: 480-213088-C-3-A Acquired: 10/10/2023 2:11:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.02072**	**.01067**	**.20949**	**.06053**
Stddev	.00010	.01781	.00087	.00113	.00007
%RSD	344.59	85.935	8.1300	.53908	.11578
#1	-.00004	-.00813	.01006	.21029	.06058
#2	.00010	-.03331	.01128	.20869	.06049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**215.17**	**.00111**	**.0017**	**.00065**
Stddev	.00011	2.17	.00052	.0319	.00026
%RSD	92.912	1.0073	46.501	1846.	39.618
#1	-.00019	213.64	.00075	-.0208	.00083
#2	-.00004	216.71	.00148	.0242	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**.00430**	**13.486**	**11.198**	**.03098**
Stddev	.00019	.00033	.063	.051	.00202
%RSD	10.383	7.7552	.46473	.45248	6.5132
#1	.00200	.00454	13.441	11.162	.02956
#2	.00173	.00406	13.530	11.234	.03241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-3-A Acquired: 10/10/2023 2:11:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.195**	**.49291**	**.00125**	**76.605**	**.00340**
Stddev	.067	.00181	.00025	.266	.00001
%RSD	.39115	.36662	19.644	.34665	.35196
#1	17.243	.49419	.00108	76.417	.00339
#2	17.148	.49163	.00143	76.793	.00341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00200**	F **105.37**	**-.00188**	**-.00447**
Stddev	.00	.00032	.49	.00096	.00293
%RSD	.0037	16.046	.46187	50.864	65.539
#1	25.02	.00223	105.71	-.00120	-.00240
#2	25.02	.00178	105.02	-.00256	-.00655
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.865**	**-.00114**	**.58644**	**1.009**	**.00169**
Stddev	.056	.00047	.00280	.000	.00011
%RSD	.35275	41.354	.47792	.0107	6.8045
#1	15.825	-.00147	.58446	1.009	.00160
#2	15.904	-.00081	.58842	1.009	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-3-A Acquired: 10/10/2023 2:11:22 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00001**	**.02827**	**1.000**
Stddev	.00155	.00026	.00021	.001
%RSD	416.69	4980.2	.75475	.0817
#1	-.00072	-.00018	.02842	1.001
#2	.00146	.00019	.02812	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5242.8**	**6721.7**	**30413.**	**84336.**
Stddev	11.4	16.8	358.	406.
%RSD	.21672	.24937	1.1781	.48177
#1	5234.8	6709.9	30160.	84049.
#2	5250.8	6733.6	30667.	84623.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.281%	95.132%	103.61%	94.587%
Range				

Sample Name: 480-213088-C-4-A Acquired: 10/10/2023 2:14:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00125**	**.00304**	**.03916**	**.01114**
Stddev	.00080	.00955	.00175	.00026	.00007
%RSD	450.05	762.96	57.411	.67472	.62973
#1	.00074	.00550	.00181	.03934	.01109
#2	-.00039	-.00801	.00428	.03897	.01119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**40.431**	**-.00004**	**-.0042**	**-.00027**
Stddev	.00005	1.929	.00019	.0143	.00015
%RSD	29.578	4.7707	442.17	337.7	55.857
#1	-.00013	39.067	-.00018	-.0144	-.00016
#2	-.00019	41.795	.00009	.0059	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00088**	**2.4418**	**2.0588**	**.00377**
Stddev	.00018	.00015	.1201	.1036	.00088
%RSD	49.792	17.506	4.9178	5.0338	23.393
#1	.00048	.00098	2.3569	1.9855	.00315
#2	.00023	.00077	2.5267	2.1321	.00440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-A Acquired: 10/10/2023 2:14:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3334**	**.09445**	**-.00048**	**14.338**	**.00055**
Stddev	.0370	.00036	.00030	.521	.00014
%RSD	1.1103	.37640	62.121	3.6337	25.929
#1	3.3072	.09419	-.00027	13.969	.00045
#2	3.3596	.09470	-.00069	14.706	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00007**	**19.957**	**-.00077**	**-.00333**
Stddev	.00	.00083	.040	.00135	.00119
%RSD	.0009	1154.4	.20116	174.35	35.687
#1	25.00	-.00066	19.986	-.00172	-.00249
#2	25.00	.00052	19.929	.00018	-.00417
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8661**	**.00008**	**.10655**	**1.011**	**.00029**
Stddev	.1109	.00005	.00479	.004	.00023
%RSD	3.8700	67.937	4.4962	.3902	80.177
#1	2.7877	.00004	.10317	1.013	.00046
#2	2.9445	.00012	.10994	1.008	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-A Acquired: 10/10/2023 2:14:45 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00038**	**.00648**	**1.001**
Stddev	.00052	.00014	.00022	.000
%RSD	103.85	36.329	3.4018	.0273
#1	-.00013	-.00048	.00663	1.001
#2	-.00086	-.00028	.00632	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5610.7**	**7081.8**	**32486.**	**89299.**
Stddev	13.9	3.6	199.	761.
%RSD	.24723	.05106	.61336	.85227
#1	5620.5	7084.4	32627.	89837.
#2	5600.9	7079.3	32345.	88761.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.686%	100.23%	110.68%	100.15%
Range				

Sample Name: 480-213088-C-4-ASD@5 Acquired: 10/10/2023 2:18:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04399**	**10.193**	**.21873**	**.40055**	**.25437**
Stddev	.00046	.107	.00019	.00037	.00138
%RSD	1.0540	1.0511	.08508	.09174	.54206
#1	.04366	10.117	.21886	.40029	.25339
#2	.04432	10.269	.21860	.40081	.25534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20986**	**215.09**	**.21548**	**-.0166**	**.20805**
Stddev	.00254	3.91	.00052	.0046	.00016
%RSD	1.2086	1.8197	.23930	27.67	.07785
#1	.20807	212.32	.21512	-.0133	.20816
#2	.21166	217.85	.21585	-.0198	.20793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18558**	**.18935**	**23.051**	**20.924**	**.22186**
Stddev	.00292	.00191	.360	.133	.00307
%RSD	1.5758	1.0083	1.5603	.63693	1.3820
#1	.18351	.18800	22.796	20.830	.21969
#2	.18765	.19070	23.305	21.018	.22403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-ASD@5 Acquired: 10/10/2023 2:18:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.787**	**.66425**	**.19947**	**84.344**	**.20475**
Stddev	.235	.00805	.00089	.765	.00002
%RSD	.90972	1.2114	.44739	.90711	.00821
#1	25.621	.65856	.20010	83.803	.20477
#2	25.953	.66994	.19884	84.885	.20474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.20629**	F **110.33**	**.21953**	**.19725**
Stddev	.00	.00023	.12	.00184	.00117
%RSD	.0049	.10962	.10505	.83887	.59081
#1	25.02	.20613	110.41	.22083	.19808
#2	25.02	.20645	110.25	.21823	.19643
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.422**	**.18949**	**.76783**	**1.013**	**.19349**
Stddev	.288	.00116	.00983	.005	.00245
%RSD	1.1336	.61194	1.2803	.5451	1.2665
#1	25.219	.19031	.76088	1.009	.19176
#2	25.626	.18867	.77479	1.017	.19522
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-ASD@5 Acquired: 10/10/2023 2:18:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20226**	**.18890**	**.21263**	**1.000**
Stddev	.00124	.00247	.00241	.000
%RSD	.61482	1.3080	1.1349	.0053
#1	.20314	.18715	.21092	1.000
#2	.20138	.19065	.21434	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5186.3**	**6708.1**	**30242.**	**83733.**
Stddev	.4	4.9	444.	215.
%RSD	.00727	.07355	1.4679	.25705
#1	5186.0	6704.6	30556.	83886.
#2	5186.6	6711.5	29928.	83581.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.297%	94.939%	103.03%	93.911%
Range				

Sample Name: 480-213088-C-4-APDS Acquired: 10/10/2023 2:21:23 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.02260**	**.04514**	**.15541**	**.08325**
Stddev	.00097	.00176	.00099	.00057	.00136
%RSD	128.30	7.7710	2.1926	.36991	1.6363
#1	-.00007	.02385	.04584	.15582	.08229
#2	-.00144	.02136	.04444	.15501	.08422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**145.13**	**.00085**	**-.0200**	**-.00041**
Stddev	.00010	.23	.00008	.0046	.00021
%RSD	67.939	.15881	9.3465	23.08	51.943
#1	-.00008	145.29	.00090	-.0233	-.00026
#2	-.00022	144.97	.00079	-.0167	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**.00225**	**1.0129**	**7.6691**	**.01245**
Stddev	.00023	.00031	.0198	.1090	.00025
%RSD	11.959	13.554	1.9521	1.4220	2.0456
#1	.00211	.00204	.99897	7.5920	.01227
#2	.00178	.00247	1.0269	7.7463	.01263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-APDS Acquired: 10/10/2023 2:21:23 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.528**	**.06777**	**.00050**	**53.424**	**.00101**
Stddev	.363	.00106	.00027	.845	.00010
%RSD	1.5430	1.5584	53.866	1.5809	9.4162
#1	23.272	.06703	.00069	52.827	.00108
#2	23.785	.06852	.00031	54.021	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.36**	**.00019**	**37.462**	**-.00066**	**-.00239**
Stddev	.00	.00003	.099	.00341	.00273
%RSD	.0067	16.046	.26452	515.38	114.11
#1	25.36	.00017	37.532	-.00307	-.00432
#2	25.36	.00021	37.392	.00175	-.00046
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.183**	**-.00000**	**1.2812**	**1.004**	**.00503**
Stddev	.316	.00050	.0307	.005	.00019
%RSD	2.3990	19634.	2.3985	.4888	3.6970
#1	12.959	-.00036	1.2595	1.007	.00516
#2	13.407	.00035	1.3029	1.000	.00490
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-APDS Acquired: 10/10/2023 2:21:23 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00077**	**.00385**	**1.001**
Stddev	.00032	.00025	.00060	.000
%RSD	72.202	32.614	15.627	.0307
#1	.00068	.00060	.00427	1.001
#2	.00022	.00095	.00342	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5284.7**	**6769.4**	**30890.**	**84619.**
Stddev	6.4	9.8	407.	251.
%RSD	.12139	.14423	1.3191	.29703
#1	5280.2	6762.5	31178.	84796.
#2	5289.3	6776.3	30602.	84441.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.011%	95.807%	105.24%	94.904%
Range				

Sample Name: 480-213088-C-4-B MS Acquired: 10/10/2023 2:24:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04633**	**10.760**	**.24638**	**.36113**	**.29143**
Stddev	.00051	.274	.00099	.00099	.00055
%RSD	1.0961	2.5487	.40215	.27308	.18895
#1	.04597	10.566	.24708	.36183	.29182
#2	.04669	10.953	.24568	.36044	.29104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21665**	**155.53**	**.22179**	**-.0290**	**.21446**
Stddev	.00369	1.04	.00099	.0050	.00088
%RSD	1.7011	.67185	.44587	17.08	.41017
#1	.21404	154.80	.22249	-.0255	.21508
#2	.21925	156.27	.22109	-.0325	.21384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19395**	**.19471**	**11.355**	**18.431**	**.21726**
Stddev	.00181	.00185	.215	.219	.00239
%RSD	.93141	.95116	1.8936	1.1881	1.0982
#1	.19523	.19602	11.203	18.276	.21557
#2	.19268	.19340	11.507	18.586	.21894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-B MS Acquired: 10/10/2023 2:24:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.723**	**.26485**	**.20524**	**63.402**	**.20835**
Stddev	.129	.00188	.00002	.684	.00022
%RSD	.38160	.71124	.01125	1.0792	.10797
#1	33.814	.26618	.20526	62.918	.20851
#2	33.633	.26351	.20522	63.886	.20819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.38**	**.21144**	**46.810**	**.23166**	**.20111**
Stddev	.00	.00070	.122	.00286	.00351
%RSD	.0038	.32940	.26155	1.2345	1.7450
#1	25.38	.21095	46.897	.22964	.20359
#2	25.38	.21193	46.723	.23369	.19863
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.898**	**.20552**	**1.5155**	**1.013**	**.20462**
Stddev	.406	.00098	.0272	.001	.00027
%RSD	1.6987	.47608	1.7976	.0522	.13051
#1	23.611	.20621	1.4962	1.014	.20481
#2	24.185	.20483	1.5348	1.013	.20443
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-B MS Acquired: 10/10/2023 2:24:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21093**	**.19644**	**.19205**	**1.001**
Stddev	.00323	.00106	.00043	.000
%RSD	1.5300	.53981	.22401	.0375
#1	.21321	.19719	.19236	1.001
#2	.20865	.19569	.19175	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5218.9**	**6747.0**	**30211.**	**84114.**
Stddev	1.1	4.6	205.	125.
%RSD	.02138	.06812	.67941	.14813
#1	5218.1	6750.2	30066.	84202.
#2	5219.7	6743.7	30356.	84026.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.864%	95.489%	102.93%	94.338%
Range				

Sample Name: 480-213088-C-4-C MSD Acquired: 10/10/2023 2:28:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04690**	**11.271**	**.23049**	**.36485**	**.29581**
Stddev	.00090	.158	.00089	.00011	.00040
%RSD	1.9231	1.3995	.38422	.03002	.13433
#1	.04626	11.159	.22987	.36478	.29553
#2	.04753	11.382	.23112	.36493	.29609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22247**	**149.61**	**.22531**	**-.0015**	**.21973**
Stddev	.00291	2.11	.00063	.0496	.00043
%RSD	1.3075	1.4127	.27936	3203.	.19344
#1	.22042	148.12	.22576	-.0366	.21943
#2	.22453	151.11	.22487	.0335	.22003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19608**	**.19812**	**11.661**	**18.944**	**.22464**
Stddev	.00020	.00027	.136	.103	.00274
%RSD	.10005	.13402	1.1621	.54201	1.2213
#1	.19595	.19831	11.565	18.871	.22270
#2	.19622	.19793	11.757	19.017	.22658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-C MSD Acquired: 10/10/2023 2:28:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.516**	**.26036**	**.20983**	**62.439**	**.21398**
Stddev	.074	.00005	.00013	.429	.00018
%RSD	.22067	.02101	.06136	.68778	.08413
#1	33.464	.26040	.20974	62.135	.21410
#2	33.568	.26032	.20992	62.742	.21385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.46**	**.21535**	**42.607**	**.23680**	**.20351**
Stddev	.00	.00049	.081	.00054	.00136
%RSD	.0074	.22728	.19051	.22942	.66630
#1	25.46	.21500	42.550	.23718	.20446
#2	25.46	.21569	42.665	.23641	.20255
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.678**	**.21105**	**1.5143**	**1.013**	**.21044**
Stddev	.255	.00001	.0228	.002	.00065
%RSD	1.0337	.00403	1.5084	.2245	.30855
#1	24.498	.21105	1.4982	1.012	.21090
#2	24.859	.21106	1.5305	1.015	.20998
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-4-C MSD Acquired: 10/10/2023 2:28:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21332**	**.20006**	**.19668**	**1.002**
Stddev	.00250	.00031	.00036	.000
%RSD	1.1731	.15345	.18094	.0003
#1	.21155	.20028	.19643	1.002
#2	.21509	.19985	.19693	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5235.2**	**6788.3**	**30576.**	**84137.**
Stddev	1.8	.6	146.	134.
%RSD	.03463	.00947	.47737	.15971
#1	5236.5	6787.9	30473.	84042.
#2	5233.9	6788.8	30679.	84232.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.148%	96.074%	104.17%	94.364%
Range				

Sample Name: 480-213088-C-5-A Acquired: 10/10/2023 2:31:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.03704**	**.04499**	**.15865**	**.08577**
Stddev	.00083	.03805	.00092	.00064	.00037
%RSD	645.21	102.74	2.0345	.40520	.42606
#1	.00071	.06395	.04564	.15820	.08602
#2	-.00046	.01013	.04435	.15911	.08551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**150.19**	**.00029**	**-.0200**	**-.00054**
Stddev	.00007	2.56	.00032	.0247	.00004
%RSD	22.504	1.7049	110.34	123.6	7.2071
#1	-.00024	148.38	.00051	-.0374	-.00057
#2	-.00034	152.00	.00006	-.0025	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00276**	**1.0434**	**8.0018**	**.01266**
Stddev	.00023	.00101	.0056	.0153	.00030
%RSD	16.213	36.556	.53676	.19096	2.4040
#1	.00128	.00347	1.0395	7.9910	.01245
#2	.00161	.00204	1.0474	8.0126	.01288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213088-C-5-A Acquired: 10/10/2023 2:31:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.107**	**.06889**	**.00037**	**55.873**	**56.138**
Stddev	.030	.00023	.00005	.128	.533
%RSD	.12615	.32834	13.118	.22857	.94991
#1	24.129	.06905	.00040	55.783	55.761
#2	24.086	.06873	.00033	55.963	56.515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Line	231.604 {446}	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}
IS Ref	(In2306)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**25.37**	**-.00145**	**38.331**	**.00031**
Stddev	.00007	.00	.00053	.150	.00182
%RSD	7.2180	.0038	36.521	.39202	587.81
#1	.00091	25.37	-.00183	38.437	.00160
#2	.00101	25.37	-.00108	38.225	-.00098
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00365**	**13.760**	**-.00047**	**1.3422**	**1.003**
Stddev	.00001	.068	.00152	.0090	.004
%RSD	.33370	.49686	324.83	.66729	.3693
#1	-.00365	13.711	.00060	1.3359	1.006
#2	-.00366	13.808	-.00154	1.3486	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: 480-213088-C-5-A Acquired: 10/10/2023 2:31:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	TI1908	V_2924	Zn2062	Zr3438
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.00103**	**.00029**	**.00053**	**.9995**
Stddev	.00021	.00184	.00013	.00031	.0000
%RSD	4.8457	178.55	46.042	58.423	.0003
#1	.00438	.00233	.00038	.00031	.9995
#2	.00409	-.00027	.00020	.00075	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5270.9**	**6759.0**	**30906.**	**83773.**
Stddev	11.4	2.0	44.	292.
%RSD	.21592	.02940	.14291	.34851
#1	5279.0	6757.6	30875.	83566.
#2	5262.9	6760.4	30937.	83979.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.770%	95.660%	105.29%	93.955%
Range				

Sample Name: CCV-7538313 Acquired: 10/10/2023 2:34:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93919**	**51.701**	**1.0127**	**.99852**	**.99934**
Stddev	.00622	.123	.0005	.00133	.00424
%RSD	.66260	.23862	.05077	.13364	.42442
#1	.94359	51.614	1.0130	.99947	.99634
#2	.93479	51.788	1.0123	.99758	1.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0193**	**49.199**	**1.0689**	**.9625**	**1.0163**
Stddev	.0065	.326	.0016	.0133	.0031
%RSD	.63259	.66323	.15234	1.381	.30101
#1	1.0147	48.969	1.0700	.9719	1.0184
#2	1.0238	49.430	1.0677	.9531	1.0141
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.90788**	**.92759**	**49.821**	**50.822**	**.99129**
Stddev	.00293	.00012	.010	.136	.00196
%RSD	.32224	.01285	.01931	.26684	.19800
#1	.90995	.92751	49.814	50.726	.98990
#2	.90581	.92768	49.827	50.918	.99268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 2:34:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.284**	**.93685**	**.98531**	**50.782**	**1.0164**
Stddev	.114	.00222	.00551	.125	.0008
%RSD	.23533	.23712	.55967	.24545	.07777
#1	48.364	.93842	.98921	50.694	1.0170
#2	48.203	.93528	.98141	50.870	1.0159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.57**	**1.0151**	**24.062**	**1.0152**	**1.0107**
Stddev	.02	.0037	.047	.0004	.0023
%RSD	.0555	.36135	.19558	.03458	.23035
#1	37.59	1.0177	24.095	1.0150	1.0123
#2	37.56	1.0125	24.028	1.0155	1.0090
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.754**	**.99788**	**1.0261**	**1.508**	**.93288**
Stddev	.129	.00038	.0057	.008	.00114
%RSD	1.2013	.03831	.55302	.5132	.12168
#1	10.663	.99815	1.0221	1.503	.93368
#2	10.845	.99761	1.0301	1.514	.93208
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 2:34:44 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99754**	**.93526**	**.95706**	**1.499**
Stddev	.00269	.00150	.00139	.002
%RSD	.26943	.16073	.14503	.1235
#1	.99944	.93633	.95804	1.498
#2	.99564	.93420	.95608	1.501
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5215.0**	**6785.2**	**30808.**	**82915.**
Stddev	10.3	10.7	293.	912.
%RSD	.19664	.15837	.94954	1.0996
#1	5207.8	6777.6	30601.	82270.
#2	5222.3	6792.8	31015.	83560.

Sample Name: CCB-7506043 Acquired: 10/10/2023 2:37:57 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.01185**	**.00112**	**.00021**	**-.00029**
Stddev	.00015	.02606	.00069	.00001	.00003
%RSD	27.546	220.00	61.585	4.8313	10.373
#1	-.00044	.00658	.00161	.00022	-.00027
#2	-.00066	-.03027	.00063	.00021	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.01624**	**.00003**	**-.0276**	**-.00033**
Stddev	.00018	.00186	.00120	.0022	.00001
%RSD	171.41	11.465	3664.7	8.091	2.1739
#1	.00002	-.01756	.00088	-.0260	-.00032
#2	-.00023	-.01492	-.00082	-.0292	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00020**	**-.00968**	**.06353**	**.00026**
Stddev	.00007	.00147	.00458	.06990	.00149
%RSD	14.696	732.97	47.311	110.03	580.94
#1	-.00040	.00124	-.00644	.11296	-.00080
#2	-.00049	-.00084	-.01292	.01410	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 2:37:57 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01316**	**-.00014**	**.00148**	**.05567**	**-.00032**
Stddev	.00174	.00005	.00019	.00810	.00003
%RSD	13.228	36.782	13.102	14.553	8.7015
#1	-.01193	-.00017	.00134	.06139	-.00034
#2	-.01439	-.00010	.00161	.04994	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00075**	**.02204**	**-.00088**	**-.00006**
Stddev	.00	.00065	.00111	.00034	.00211
%RSD	.0019	85.816	5.0445	38.526	3267.6
#1	25.00	-.00121	.02283	-.00064	-.00155
#2	25.00	-.00030	.02125	-.00112	.00143
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00323**	**.00020**	**-.00021**	**1.001**	**.00023**
Stddev	.01625	.00034	.00012	.000	.00021
%RSD	503.68	175.73	57.355	.0332	87.648
#1	.01471	-.00005	-.00013	1.001	.00009
#2	-.00826	.00044	-.00030	1.001	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 2:37:57 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00007**	**-.00058**	**1.000**
Stddev	.00069	.00015	.00011	.001
%RSD	190.90	199.48	19.832	.0828
#1	.00085	.00003	-.00066	1.001
#2	-.00013	-.00018	-.00050	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5745.1**	**7174.5**	**32199.**	**88529.**
Stddev	2.4	19.0	413.	651.
%RSD	.04128	.26441	1.2813	.73540
#1	5743.4	7161.0	31907.	88068.
#2	5746.7	7187.9	32491.	88989.

Sample Name: CCVL-7610998 Acquired: 10/10/2023 2:41:21 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00509**	**.15418**	**.01439**	**.01893**	**.00164**
Stddev	.00032	.00534	.00116	.00030	.00002
%RSD	6.2190	3.4652	8.0879	1.5803	1.2467
#1	.00531	.15040	.01357	.01871	.00165
#2	.00486	.15796	.01522	.01914	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**.46433**	**.00202**	**-.0135**	**.00382**
Stddev	.00005	.02234	.00066	.0372	.00015
%RSD	2.8452	4.8104	32.704	276.5	3.8526
#1	.00169	.44854	.00248	-.0398	.00371
#2	.00176	.48013	.00155	.0129	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00354**	**.01004**	W **.03400**	**.48795**	**.03086**
Stddev	.00030	.00015	.00302	.02804	.00340
%RSD	8.4215	1.4588	8.8941	5.7461	11.004
#1	.00333	.00993	.03186	.46813	.02846
#2	.00375	.01014	.03613	.50778	.03326
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value			.05000		
Range			-30.000%		

Sample Name: CCVL-7610998 Acquired: 10/10/2023 2:41:21 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18198**	**.00272**	**.00984**	**1.0597**	**.01088**
Stddev	.00015	.00008	.00012	.0258	.00028
%RSD	.08347	3.1207	1.2330	2.4345	2.5524
#1	.18188	.00266	.00992	1.0414	.01069
#2	.18209	.00278	.00975	1.0779	.01108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00973**	**.22431**	**.02369**	**.02383**
Stddev	.00	.00058	.00217	.00238	.00151
%RSD	.0000	5.9687	.96735	10.058	6.3552
#1	25.00	.00931	.22277	.02201	.02276
#2	25.00	.01014	.22584	.02538	.02490
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48298**	**.00920**	**.00457**	F **1.002**	**.00484**
Stddev	.03064	.00097	.00036	.002	.00007
%RSD	6.3447	10.579	7.8536	.1987	1.3870
#1	.46131	.00989	.00432	1.003	.00479
#2	.50465	.00851	.00482	1.000	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/10/2023 2:41:21 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.01883	W .00347	.00928	F 1.000
Stddev	.00019	.00021	.00002	.001
%RSD	1.0010	6.1655	.17938	.0610
#1	.01897	.00362	.00927	1.001
#2	.01870	.00332	.00929	1.000
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail
Value		.00500		.0060
Range		-30.000%		50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5571.9	6985.6	32038.	87239.
Stddev	2.6	4.3	98.	693.
%RSD	.04605	.06168	.30648	.79387
#1	5570.1	6988.7	32107.	87729.
#2	5573.8	6982.6	31969.	86749.

Sample Name: 480-213098-C-1-A Acquired: 10/10/2023 2:44:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.04274**	**.00042**	**.00098**	**.00175**
Stddev	.00059	.01376	.00175	.00002	.00000
%RSD	806.39	32.189	416.76	2.5229	.09268
#1	-.00049	.05247	-.00082	.00096	.00175
#2	.00035	.03301	.00166	.00100	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.30664**	**.00002**	**-.0285**	**-.00045**
Stddev	.00001	.00066	.00019	.0074	.00001
%RSD	4.7003	.21442	843.09	26.05	2.7119
#1	-.00019	.30618	.00015	-.0338	-.00046
#2	-.00020	.30711	-.00011	-.0233	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00262**	**.00036**	**.45701**	**.03234**	**.00069**
Stddev	.00016	.00007	.00327	.03317	.00155
%RSD	5.9259	20.221	.71616	102.58	224.93
#1	.00251	.00042	.45469	.00888	-.00041
#2	.00273	.00031	.45932	.05579	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213098-C-1-A Acquired: 10/10/2023 2:44:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03774**	**.00931**	**-.00014**	**.75593**	**.00055**
Stddev	.00397	.00011	.00012	.00964	.00024
%RSD	10.517	1.1666	88.528	1.2753	44.413
#1	.03494	.00938	-.00022	.76274	.00072
#2	.04055	.00923	-.00005	.74911	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00007**	**.04672**	**-.00004**	**-.00088**
Stddev	.00	.00049	.00001	.00038	.00080
%RSD	.0000	716.40	.01817	957.05	90.780
#1	25.00	.00041	.04671	-.00031	-.00031
#2	25.00	-.00028	.04673	.00023	-.00144
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.83504**	**.00026**	**.00126**	**1.002**	**.00138**
Stddev	.00693	.00038	.00008	.006	.00022
%RSD	.82982	143.62	6.5233	.5930	16.074
#1	.83014	-.00000	.00120	.9976	.00154
#2	.83994	.00053	.00132	1.006	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213098-C-1-A Acquired: 10/10/2023 2:44:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00189**	**.00013**	**.00015**	**1.001**
Stddev	.00069	.00016	.00003	.001
%RSD	36.393	126.72	19.506	.0882
#1	-.00238	.00025	.00017	1.001
#2	-.00140	.00001	.00013	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5601.3**	**7039.5**	**31781.**	**87295.**
Stddev	6.1	14.4	759.	646.
%RSD	.10907	.20418	2.3886	.73944
#1	5605.6	7049.7	31244.	86838.
#2	5596.9	7029.4	32318.	87751.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.522%	99.630%	108.27%	97.905%
Range				

Sample Name: 480-213109-B-1-A Acquired: 10/10/2023 2:48:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**11.038**	**.00198**	**2.0503**	**.04924**
Stddev	.00038	.126	.00040	.0088	.00064
%RSD	173.74	1.1429	19.947	.42783	1.2934
#1	-.00049	10.949	.00170	2.0565	.04970
#2	.00005	11.127	.00226	2.0441	.04879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**421.97**	**-.00030**	**.0204**	**.01099**
Stddev	.00004	3.92	.00010	.0292	.00040
%RSD	10.559	.92793	32.302	143.1	3.6752
#1	.00042	419.20	-.00024	-.0002	.01128
#2	.00036	424.74	-.00037	.0410	.01071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01434**	**.01227**	**13.527**	**24.750**	**1.7250**
Stddev	.00033	.00015	.148	.236	.0169
%RSD	2.2809	1.1896	1.0923	.95243	.98073
#1	.01411	.01237	13.423	24.917	1.7131
#2	.01457	.01216	13.632	24.583	1.7370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-1-A Acquired: 10/10/2023 2:48:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **735.51**	**.92961**	**.00066**	F **4659.7**	**.01238**
Stddev	13.44	.01654	.00023	39.0	.00016
%RSD	1.8272	1.7787	35.035	.83655	1.2629
#1	745.02	.94130	.00050	4632.1	.01250
#2	726.01	.91792	.00083	4687.3	.01227
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.16**	**.00610**	F **2281.3**	**-.00113**	**-.00492**
Stddev	.00	.00135	11.5	.00274	.00195
%RSD	.0054	22.093	.50277	242.89	39.542
#1	25.16	.00705	2273.2	.00081	-.00354
#2	25.16	.00514	2289.4	-.00307	-.00630
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.291**	**-.00118**	F **11.119**	**.9983**	**.16024**
Stddev	.092	.00073	.142	.0050	.00284
%RSD	.31272	62.188	1.2801	.5013	1.7744
#1	29.226	-.00170	11.018	.9947	.16225
#2	29.356	-.00066	11.220	1.002	.15823
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213109-B-1-A Acquired: 10/10/2023 2:48:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00307**	**.01882**	**.02502**	**1.005**
Stddev	.00091	.00082	.00006	.000
%RSD	29.460	4.3653	.25528	.0114
#1	.00371	.01940	.02506	1.005
#2	.00243	.01824	.02497	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4062.6**	**5777.6**	**26684.**	**71725.**
Stddev	7.8	11.3	383.	700.
%RSD	.19272	.19641	1.4336	.97539
#1	4068.2	5785.6	26414.	72220.
#2	4057.1	5769.5	26955.	71230.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.733%	81.769%	90.910%	80.443%
Range				

Sample Name: 480-213109-B-1-A@5 Acquired: 10/10/2023 2:51:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**2.1759**	**.00224**	**.42769**	**.01078**
Stddev	.00045	.0060	.00159	.00071	.00008
%RSD	229.45	.27636	70.761	.16545	.72390
#1	.00012	2.1717	.00112	.42819	.01083
#2	-.00052	2.1802	.00336	.42719	.01072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**83.591**	**-.00020**	**-.0115**	**.00157**
Stddev	.00003	1.938	.00041	.0089	.00007
%RSD	31.542	2.3181	206.01	77.29	4.2242
#1	-.00011	82.221	.00009	-.0052	.00152
#2	-.00007	84.961	-.00049	-.0177	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00310**	**.00146**	**2.5924**	**4.2753**	**.27210**
Stddev	.00011	.00018	.0490	.0141	.00437
%RSD	3.6849	11.996	1.8912	.32946	1.6074
#1	.00301	.00158	2.5577	4.2653	.26901
#2	.00318	.00134	2.6270	4.2853	.27519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-1-A@5 Acquired: 10/10/2023 2:51:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**157.59**	**.19503**	**-.00072**	**855.04**	**.00263**
Stddev	.02	.00013	.00001	11.31	.00007
%RSD	.01038	.06651	2.0276	1.3233	2.7746
#1	157.60	.19513	-.00071	847.04	.00258
#2	157.58	.19494	-.00073	863.04	.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00066**	F **701.36**	**.00001**	**-.00589**
Stddev	.00	.00044	1.65	.00347	.00125
%RSD	.0026	66.543	.23583	23387.	21.286
#1	25.03	.00035	700.19	.00247	-.00677
#2	25.03	.00098	702.53	-.00244	-.00500
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8933**	**-.00012**	**2.0941**	**1.004**	**.04373**
Stddev	.1044	.00026	.0403	.003	.00134
%RSD	1.7713	226.45	1.9222	.2705	3.0539
#1	5.8195	-.00030	2.0656	1.006	.04278
#2	5.9671	.00007	2.1226	1.003	.04467
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-1-A@5 Acquired: 10/10/2023 2:51:51 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00234**	**.00323**	**.00493**	**1.000**
Stddev	.00007	.00014	.00012	.000
%RSD	3.1819	4.1980	2.4549	.0190
#1	.00229	.00333	.00485	1.001
#2	.00239	.00314	.00502	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4871.2**	**6543.1**	**30075.**	**80942.**
Stddev	7.4	21.0	253.	300.
%RSD	.15237	.32117	.84256	.37115
#1	4876.5	6558.0	29896.	80729.
#2	4866.0	6528.3	30255.	81154.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.812%	92.604%	102.46%	90.780%
Range				

Sample Name: 480-213109-B-2-A Acquired: 10/10/2023 2:55:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**16.814**	**.00248**	**2.1650**	**.07841**
Stddev	.00034	.171	.00129	.0102	.00023
%RSD	42.751	1.0147	51.941	.47039	.29004
#1	-.00103	16.694	.00339	2.1722	.07825
#2	-.00055	16.935	.00157	2.1578	.07857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**444.26**	**-.00001**	**.0036**	**.00726**
Stddev	.00010	1.45	.00011	.0340	.00019
%RSD	18.345	.32677	729.53	957.3	2.6411
#1	.00049	445.29	-.00009	.0276	.00713
#2	.00063	443.24	.00006	-.0205	.00740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01886**	**.01548**	**19.797**	**26.014**	**1.7382**
Stddev	.00024	.00003	.089	.250	.0029
%RSD	1.2814	.21210	.45055	.96279	.16412
#1	.01869	.01545	19.734	25.837	1.7362
#2	.01903	.01550	19.860	26.191	1.7402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-2-A Acquired: 10/10/2023 2:55:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **753.13**	**.96589**	**.00051**	F **4914.7**	**.01680**
Stddev	3.82	.00464	.00017	3.0	.00035
%RSD	.50781	.48063	33.300	.06130	2.1105
#1	750.43	.96261	.00064	4912.6	.01705
#2	755.84	.96917	.00039	4916.8	.01654
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.27**	**.01253**	F **2319.7**	**-.00314**	**-.00307**
Stddev	.00	.00035	9.0	.00089	.00376
%RSD	.0109	2.7669	.38950	28.445	122.48
#1	25.27	.01277	2326.1	-.00377	-.00573
#2	25.26	.01228	2313.3	-.00250	-.00041
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.581**	**-.00245**	F **11.659**	**.9995**	**.24251**
Stddev	.140	.00079	.144	.0045	.00029
%RSD	.35415	32.127	1.2348	.4455	.11826
#1	39.482	-.00300	11.558	1.003	.24271
#2	39.680	-.00189	11.761	.9964	.24231
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213109-B-2-A Acquired: 10/10/2023 2:55:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00278**	**.03133**	**.04075**	**1.007**
Stddev	.00096	.00012	.00048	.000
%RSD	34.611	.37621	1.1804	.0401
#1	.00346	.03125	.04041	1.007
#2	.00210	.03142	.04109	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4006.9**	**5755.2**	**26724.**	**71366.**
Stddev	2.8	1.4	78.	246.
%RSD	.06957	.02471	.29116	.34436
#1	4004.9	5756.2	26779.	71193.
#2	4008.8	5754.2	26669.	71540.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.763%	81.453%	91.045%	80.041%
Range				

Sample Name: 480-213109-B-2-A@5 Acquired: 10/10/2023 2:59:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**3.0107**	**.00120**	**.44640**	**.01582**
Stddev	.00051	.1335	.00002	.00086	.00006
%RSD	83.184	4.4350	1.3137	.19188	.34896
#1	-.00025	2.9163	.00119	.44701	.01578
#2	-.00098	3.1051	.00121	.44580	.01586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**85.615**	**.00027**	**.0232**	**.00110**
Stddev	.00000	1.620	.00039	.0053	.00011
%RSD	18.079	1.8926	144.10	22.80	9.5889
#1	.00002	84.469	-.00001	.0269	.00103
#2	.00002	86.761	.00055	.0195	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00375**	**.00232**	**3.6891**	**4.6762**	**.27155**
Stddev	.00004	.00027	.0858	.0567	.00326
%RSD	1.0753	11.565	2.3263	1.2125	1.1989
#1	.00378	.00251	3.6284	4.6361	.26925
#2	.00372	.00213	3.7498	4.7163	.27385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-2-A@5 Acquired: 10/10/2023 2:59:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**161.09**	**.20118**	**-.00062**	**876.88**	**.00327**
Stddev	1.37	.00047	.00021	14.95	.00026
%RSD	.84807	.23515	33.498	1.7043	7.9778
#1	160.12	.20085	-.00077	866.31	.00309
#2	162.05	.20152	-.00048	887.45	.00346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00198**	F **721.27**	**.00173**	**-.00548**
Stddev	.00	.00048	.62	.00224	.00294
%RSD	.0030	24.152	.08616	129.58	53.634
#1	25.05	.00164	720.83	.00014	-.00340
#2	25.05	.00231	721.71	.00332	-.00756
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2792**	**-.00022**	**2.1411**	**.9963**	**.05082**
Stddev	.1222	.00015	.0505	.0011	.00058
%RSD	1.6785	67.608	2.3587	.1149	1.1377
#1	7.1928	-.00033	2.1054	.9955	.05041
#2	7.3656	-.00012	2.1768	.9971	.05123
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-2-A@5 Acquired: 10/10/2023 2:59:05 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00347**	**.00556**	**.00925**	**1.000**
Stddev	.00065	.00028	.00030	.000
%RSD	18.592	5.0209	3.2496	.0383
#1	.00393	.00575	.00904	1.000
#2	.00301	.00536	.00946	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4831.2**	**6517.8**	**29997.**	**80875.**
Stddev	14.4	29.5	50.	69.
%RSD	.29803	.45193	.16730	.08477
#1	4841.4	6538.6	29961.	80923.
#2	4821.0	6497.0	30032.	80826.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.115%	92.246%	102.20%	90.705%
Range				

Sample Name: 480-213109-B-3-A Acquired: 10/10/2023 3:02:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.25747**	**.00621**	**2.0986**	**.01433**
Stddev	.00037	.01920	.00035	.0202	.00007
%RSD	51.552	7.4561	5.6995	.96221	.47821
#1	.00046	.24390	.00596	2.1129	.01438
#2	.00098	.27105	.00646	2.0843	.01429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**491.68**	**-.00103**	**-.2702**	**.01206**
Stddev	.00006	1.10	.00060	.0159	.00012
%RSD	25.588	.22406	58.278	5.895	1.0315
#1	-.00020	490.90	-.00061	-.2815	.01214
#2	-.00028	492.46	-.00145	-.2590	.01197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00281**	**.02397**	**.17886**	**68.803**	**5.8578**
Stddev	.00030	.00069	.00085	.942	.0049
%RSD	10.810	2.8624	.47539	1.3698	.08406
#1	.00259	.02445	.17826	68.136	5.8543
#2	.00302	.02348	.17946	69.469	5.8613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-3-A Acquired: 10/10/2023 3:02:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**7.6684**	**.00871**	F **13566.**	**.04591**
Stddev	-----	.0072	.00009	82.	.00118
%RSD	-----	.09412	1.0457	.60217	2.5615
#1	^ -----	7.6735	.00877	13624.	.04674
#2	^ -----	7.6633	.00864	13508.	.04508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**.00131**	F **3229.1**	**.00521**	**-.00560**
Stddev	.00	.00031	26.8	.00073	.00002
%RSD	.0017	23.756	.82862	13.999	.29172
#1	25.08	.00109	3210.2	.00470	-.00561
#2	25.08	.00153	3248.1	.00573	-.00559
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9947**	**-.00686**	F **18.129**	**.9851**	**.00600**
Stddev	.0359	.00104	.051	.0053	.00048
%RSD	.71922	15.107	.28013	.5393	8.0350
#1	4.9693	-.00759	18.165	.9888	.00566
#2	5.0201	-.00613	18.093	.9813	.00634
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213109-B-3-A Acquired: 10/10/2023 3:02:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00139**	**.02039**	**1.012**
Stddev	.00119	.00026	.00004	.001
%RSD	198.35	18.437	.17403	.1371
#1	-.00144	-.00157	.02041	1.013
#2	.00024	-.00121	.02036	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.7**	**4983.0**	**23514.**	**62479.**
Stddev	18.2	27.4	45.	190.
%RSD	.53211	.54913	.19298	.30410
#1	3425.6	5002.3	23482.	62345.
#2	3399.9	4963.6	23546.	62613.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	59.418%	70.524%	80.109%	70.073%
Range				

Sample Name: 480-213109-B-3-A@20 Acquired: 10/10/2023 3:06:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.03964**	**.00094**	**.13726**	**.00073**
Stddev	.00001	.00183	.00032	.00089	.00004
%RSD	1.7192	4.6256	33.973	.64801	5.7799
#1	-.00085	.03835	.00072	.13663	.00070
#2	-.00083	.04094	.00117	.13788	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**28.206**	**.00012**	**-.0325**	**.00052**
Stddev	.00001	.684	.00011	.0048	.00024
%RSD	6.0814	2.4234	89.152	14.68	46.106
#1	-.00021	27.723	.00020	-.0292	.00035
#2	-.00023	28.690	.00005	-.0359	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00262**	**-.00646**	**3.4857**	**.21628**
Stddev	.00028	.00024	.00117	.0293	.00807
%RSD	78.861	9.1194	18.062	.83925	3.7305
#1	.00056	.00245	-.00563	3.5064	.21057
#2	.00016	.00278	-.00728	3.4650	.22198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-3-A@20 Acquired: 10/10/2023 3:06:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**179.95**	**.52670**	**-.00031**	**679.62**	**.00315**
Stddev	3.25	.00867	.00034	9.98	.00001
%RSD	1.8059	1.6466	109.87	1.4683	.23839
#1	177.65	.52056	-.00056	672.57	.00315
#2	182.24	.53283	-.00007	686.68	.00316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00142**	F **662.93**	**.00063**	**-.00085**
Stddev	.00	.00074	2.75	.00096	.00211
%RSD	.0002	52.496	.41498	151.55	247.73
#1	25.00	-.00194	660.98	-.00005	-.00234
#2	25.00	-.00089	664.87	.00131	.00064
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25887**	**-.00068**	**.92571**	**1.004**	**.00106**
Stddev	.03615	.00020	.02131	.002	.00020
%RSD	13.963	29.367	2.3020	.2328	18.755
#1	.23331	-.00083	.91064	1.002	.00120
#2	.28443	-.00054	.94078	1.005	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-3-A@20 Acquired: 10/10/2023 3:06:28 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00242**	**-.00124**	**.00694**	**1.001**
Stddev	.00069	.00011	.00052	.000
%RSD	28.470	8.9763	7.4565	.0273
#1	.00290	-.00132	.00658	1.001
#2	.00193	-.00116	.00731	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4918.6**	**6544.5**	**30191.**	**81187.**
Stddev	3.3	5.1	181.	236.
%RSD	.06656	.07780	.59954	.29035
#1	4921.0	6548.1	30319.	81020.
#2	4916.3	6540.9	30063.	81354.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.637%	92.623%	102.86%	91.055%
Range				

Sample Name: 480-213109-B-4-A Acquired: 10/10/2023 3:09:58 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.95125**	**.00331**	**1.6062**	**.01872**
Stddev	.00016	.00263	.00254	.0225	.00016
%RSD	702.42	.27653	76.712	1.4035	.86276
#1	.00009	.95311	.00152	1.6221	.01884
#2	-.00014	.94939	.00511	1.5902	.01861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**485.33**	**-.00196**	**-.0164**	**.00265**
Stddev	.00003	2.71	.00109	.0354	.00040
%RSD	19.207	.55755	55.821	216.3	15.038
#1	-.00013	487.25	-.00273	-.0414	.00293
#2	-.00017	483.42	-.00119	.0087	.00236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.01348**	**.63988**	**60.641**	**3.7925**
Stddev	.00020	.00022	.00468	.597	.0051
%RSD	9.9111	1.6526	.73092	.98403	.13495
#1	.00187	.01332	.64319	60.220	3.7961
#2	.00215	.01364	.63657	61.063	3.7889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-4-A Acquired: 10/10/2023 3:09:58 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.87323**	**.00365**	F **12293.**	**.02275**
Stddev	-----	.00450	.00059	41.	.00044
%RSD	-----	.51553	16.050	.33499	1.9426
#1	2056.5	.87641	.00323	12264.	.02306
#2	^ -----	.87004	.00406	12322.	.02244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00015**	F **3179.8**	**.00508**	**.54716**
Stddev	.00	.00081	10.1	.00039	.00560
%RSD	.0003	536.36	.31732	7.6129	1.0234
#1	25.03	-.00042	3187.0	.00480	.55111
#2	25.03	.00073	3172.7	.00535	.54320
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9591**	**-.00552**	F **12.296**	**.9859**	**.01615**
Stddev	.0553	.00089	.027	.0027	.00021
%RSD	.92875	16.110	.21611	.2763	1.3238
#1	5.9982	-.00615	12.277	.9839	.01600
#2	5.9200	-.00490	12.314	.9878	.01630
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213109-B-4-A Acquired: 10/10/2023 3:09:58 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00232**	**-.00238**	**.02993**	**.9994**
Stddev	.00194	.00009	.00034	.0017
%RSD	83.841	3.6616	1.1492	.1693
#1	.00094	-.00245	.03017	1.001
#2	.00369	-.00232	.02968	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3493.7**	**5057.8**	**23166.**	**63284.**
Stddev	13.3	17.9	142.	196.
%RSD	.38200	.35476	.61318	.30958
#1	3503.1	5070.5	23065.	63146.
#2	3484.2	5045.1	23266.	63423.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	60.827%	71.583%	78.923%	70.976%
Range				

Sample Name: 480-213109-B-4-A@20 Acquired: 10/10/2023 3:13:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.05580**	**.00211**	**.09996**	**.00096**
Stddev	.00003	.01091	.00157	.00070	.00004
%RSD	12.305	19.556	74.507	.70235	3.9599
#1	.00024	.06351	.00322	.09947	.00099
#2	.00020	.04808	.00100	.10046	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**25.824**	**-.00023**	**-.0241**	**-.00030**
Stddev	.00003	1.284	.00001	.0098	.00020
%RSD	19.171	4.9713	5.0900	40.56	68.036
#1	-.00018	24.916	-.00022	-.0311	-.00044
#2	-.00014	26.732	-.00024	-.0172	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00119**	**.02285**	**2.8611**	**.13703**
Stddev	.00021	.00087	.00003	.0980	.00903
%RSD	40.475	73.061	.14730	3.4257	6.5899
#1	.00036	.00180	.02283	2.7918	.13064
#2	.00066	.00057	.02287	2.9304	.14342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-4-A@20 Acquired: 10/10/2023 3:13:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**140.79**	**.05416**	**-.00082**	**578.55**	**.00127**
Stddev	1.07	.00038	.00002	23.24	.00000
%RSD	.76334	.69643	2.7605	4.0178	.23418
#1	140.03	.05389	-.00084	562.11	.00127
#2	141.55	.05442	-.00080	594.99	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00030**	F **575.78**	**.00107**	**.02346**
Stddev	.00	.00198	.65	.00357	.00077
%RSD	.0086	658.66	.11353	333.41	3.2660
#1	25.00	-.00170	575.31	-.00145	.02292
#2	25.00	.00110	576.24	.00360	.02400
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28616**	**-.00003**	**.59481**	**.9975**	**.00144**
Stddev	.00167	.00010	.03026	.0038	.00018
%RSD	.58351	326.73	5.0880	.3850	12.801
#1	.28734	.00004	.57341	.9948	.00157
#2	.28498	-.00010	.61621	1.000	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-4-A@20 Acquired: 10/10/2023 3:13:48 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00291**	**-.00105**	**.00401**	**.9992**
Stddev	.00043	.00026	.00008	.0006
%RSD	14.703	24.875	2.0318	.0579
#1	.00260	-.00124	.00395	.9996
#2	.00321	-.00087	.00407	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4995.5**	**6622.8**	**29905.**	**81815.**
Stddev	3.0	18.8	90.	578.
%RSD	.05921	.28395	.30164	.70642
#1	4997.5	6609.5	29842.	82224.
#2	4993.4	6636.1	29969.	81406.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.975%	93.731%	101.88%	91.760%
Range				

Sample Name: CCV-7538313 Acquired: 10/10/2023 3:17:19 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97582**	**54.331**	**1.0704**	**1.0580**	**1.0537**
Stddev	.00505	.011	.0031	.0017	.0010
%RSD	.51719	.01956	.28649	.15856	.09742
#1	.97225	54.323	1.0726	1.0568	1.0530
#2	.97939	54.338	1.0682	1.0592	1.0545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0742**	**51.877**	F **1.1246**	**1.082**	**1.0715**
Stddev	.0040	.004	.0072	.050	.0001
%RSD	.37659	.00789	.64101	4.661	.01444
#1	1.0770	51.880	1.1195	1.118	1.0714
#2	1.0713	51.874	1.1297	1.047	1.0716
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
Value			1.0000		
Range			10.000%		

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97250**	**.99415**	**52.630**	**53.137**	**1.0489**
Stddev	.01216	.00539	.186	.227	.0077
%RSD	1.2505	.54194	.35257	.42769	.73025
#1	.96390	.99034	52.499	53.297	1.0543
#2	.98109	.99796	52.761	52.976	1.0435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 3:17:19 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.284**	**1.0011**	**1.0415**	**50.862**	**1.0724**
Stddev	.173	.0066	.0025	.393	.0001
%RSD	.33826	.66153	.24045	.77261	.01280
#1	51.161	.99640	1.0433	51.140	1.0725
#2	51.406	1.0058	1.0397	50.585	1.0723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.25**	**1.0702**	F **29.359**	**1.0696**	**1.0650**
Stddev	.02	.0017	.284	.0014	.0040
%RSD	.0570	.16230	.96586	.12901	.38033
#1	38.24	1.0714	29.560	1.0706	1.0621
#2	38.27	1.0690	29.159	1.0687	1.0679
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			25.000		
Range			10.000%		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **11.017**	**1.0553**	**1.0813**	**1.533**	**.99991**
Stddev	.003	.0012	.0068	.000	.00536
%RSD	.02337	.11754	.62847	.0102	.53584
#1	11.019	1.0544	1.0861	1.532	.99612
#2	11.015	1.0562	1.0765	1.533	1.0037
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
Value	10.000				
Range	10.000%				

Sample Name: CCV-7538313 Acquired: 10/10/2023 3:17:19 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0547**	**1.00000**	**1.0192**	**1.525**
Stddev	.0021	.00640	.0030	.001
%RSD	.19675	.63958	.29430	.0403
#1	1.0562	.99547	1.0171	1.526
#2	1.0532	1.0045	1.0213	1.525
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5222.6**	**6801.1**	**30568.**	**83861.**
Stddev	1.1	3.8	218.	360.
%RSD	.02114	.05591	.71265	.42954
#1	5223.3	6803.8	30723.	83606.
#2	5221.8	6798.5	30414.	84116.

Sample Name: CCB-7506043 Acquired: 10/10/2023 3:20:32 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.01270**	**.00152**	**.00154**	**-.00031**
Stddev	.00117	.00164	.00043	.00011	.00002
%RSD	313.79	12.935	28.515	7.3006	6.6853
#1	-.00120	-.01154	.00183	.00162	-.00029
#2	.00045	-.01386	.00122	.00146	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00680**	**.00034**	**-.0159**	**-.00030**
Stddev	.00011	.00143	.00000	.0765	.00017
%RSD	109.03	21.019	.10034	481.6	56.746
#1	-.00002	.00579	.00034	-.0699	-.00018
#2	-.00018	.00781	.00034	.0382	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00034**	**-.00482**	**.15015**	**.00228**
Stddev	.00046	.00026	.00482	.01215	.00034
%RSD	245.14	76.377	100.14	8.0889	14.870
#1	.00051	.00016	-.00141	.15874	.00204
#2	-.00014	.00052	-.00823	.14156	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 3:20:32 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04380**	**-.00011**	**.00130**	F **1.7976**	**-.00011**
Stddev	.03442	.00012	.00016	.0305	.00014
%RSD	78.569	110.82	12.402	1.6950	120.76
#1	.06814	-.00002	.00119	1.8192	-.00021
#2	.01947	-.00019	.00141	1.7761	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-.50000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00062**	F **2.0353**	**.00042**	**.00051**
Stddev	.00	.00005	.1275	.00008	.00165
%RSD	.0049	7.3227	6.2633	20.063	324.84
#1	25.00	-.00065	2.1255	.00036	-.00066
#2	25.00	-.00059	1.9452	.00047	.00168
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.20000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**-.00031**	**.00020**	**1.009**	**.00035**
Stddev	.00055	.00085	.00005	.006	.00015
%RSD	80.955	276.67	25.574	.5756	41.835
#1	.00108	-.00091	.00024	1.005	.00025
#2	.00029	.00029	.00016	1.013	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 3:20:32 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00085**	**-.00007**	**-.00021**	**.9990**
Stddev	.00126	.00013	.00029	.0002
%RSD	147.79	190.35	137.99	.0222
#1	.00004	-.00016	-.00001	.9989
#2	-.00174	.00002	-.00042	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5764.3**	**7202.4**	**32562.**	**88550.**
Stddev	11.5	5.0	360.	186.
%RSD	.20004	.06873	1.1050	.21058
#1	5756.1	7198.9	32308.	88418.
#2	5772.4	7205.9	32817.	88682.

Sample Name: CCVL-7610998 Acquired: 10/10/2023 3:23:54 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**.22085**	**.01575**	**.01987**	**.00165**
Stddev	.00124	.01570	.00232	.00023	.00003
%RSD	23.169	7.1069	14.737	1.1663	1.9021
#1	.00448	.23195	.01739	.01971	.00162
#2	.00624	.20975	.01411	.02003	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00174**	**.48224**	**.00230**	**-.0202**	**.00379**
Stddev	.00001	.00883	.00026	.0369	.00005
%RSD	.32376	1.8311	11.217	183.1	1.2235
#1	.00175	.47599	.00249	.0059	.00376
#2	.00174	.48848	.00212	-.0463	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00369**	**.00996**	**.03541**	**.60216**	**.03242**
Stddev	.00051	.00082	.00012	.04468	.00241
%RSD	13.784	8.1890	.33620	7.4207	7.4501
#1	.00405	.00938	.03532	.57057	.03071
#2	.00333	.01053	.03549	.63376	.03412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/10/2023 3:23:54 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21339**	**.00272**	**.00965**	F **2.4790**	**.00983**
Stddev	.00862	.00001	.00019	.1069	.00028
%RSD	4.0416	.21630	1.9874	4.3110	2.8932
#1	.21949	.00273	.00952	2.5546	.01003
#2	.20730	.00272	.00979	2.4035	.00963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				1.0000	
Range				50.000%	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00965**	F **1.5079**	**.02124**	**.02481**
Stddev	.00	.00074	.0695	.00097	.00170
%RSD	.0018	7.6866	4.6090	4.5681	6.8687
#1	25.00	.01017	1.5570	.02192	.02360
#2	25.00	.00912	1.4587	.02055	.02601
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value	.0060		.20000		
Range	50.00%		50.000%		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48760**	**.00969**	**.00494**	F **1.005**	**.00498**
Stddev	.02258	.00074	.00011	.003	.00015
%RSD	4.6308	7.6484	2.1834	.2848	3.0196
#1	.47164	.01022	.00502	1.003	.00509
#2	.50357	.00917	.00487	1.007	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/10/2023 3:23:54 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02008**	**.00463**	**.01090**	F **.9993**
Stddev	.00086	.00011	.00010	.0022
%RSD	4.2776	2.2771	.93057	.2160
#1	.01947	.00456	.01097	1.001
#2	.02069	.00471	.01082	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5566.1**	**6966.9**	**32296.**	**87262.**
Stddev	4.1	25.3	102.	675.
%RSD	.07392	.36328	.31577	.77301
#1	5569.0	6984.8	32368.	87739.
#2	5563.2	6949.0	32224.	86785.

Sample Name: 480-213109-B-5-A Acquired: 10/10/2023 3:27:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.43055**	**.00178**	**3.4585**	**.00990**
Stddev	.00039	.00098	.00165	.0278	.00011
%RSD	132.10	.22782	92.659	.80421	1.1233
#1	.00057	.43124	.00062	3.4781	.00982
#2	.00002	.42985	.00295	3.4388	.00998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**444.69**	**-.00067**	**-.0053**	**-.00013**
Stddev	.00002	2.11	.00099	.0153	.00029
%RSD	16.966	.47507	147.71	290.7	219.18
#1	-.00009	443.20	.00003	.0056	.00007
#2	-.00011	446.19	-.00137	-.0161	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**.00483**	**5.2751**	**46.432**	**4.0368**
Stddev	.00013	.00011	.0585	.884	.0239
%RSD	6.8877	2.2012	1.1093	1.9048	.59130
#1	.00174	.00475	5.2338	45.807	4.0199
#2	.00192	.00490	5.3165	47.057	4.0537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-5-A Acquired: 10/10/2023 3:27:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **1019.1**	**.47358**	**.00253**	F **10626.**	**.00357**
Stddev	5.1	.00011	.00001	79.	.00009
%RSD	.50253	.02342	.48313	.73945	2.5685
#1	1015.4	.47350	.00252	10682.	.00351
#2	1022.7	.47366	.00254	10570.	.00363
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00038**	F **3000.4**	**.00116**	**-.00731**
Stddev	.00	.00247	3.1	.00359	.00251
%RSD	.0070	649.90	.10319	308.36	34.370
#1	25.07	.00213	3002.6	-.00137	-.00554
#2	25.07	-.00137	2998.2	.00370	-.00909
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5917**	**-.00457**	F **11.734**	**.9892**	**.01040**
Stddev	.0393	.00108	.051	.0001	.00107
%RSD	.59643	23.725	.43107	.0122	10.324
#1	6.5639	-.00380	11.698	.9893	.00964
#2	6.6195	-.00534	11.769	.9891	.01116
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213109-B-5-A Acquired: 10/10/2023 3:27:15 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00282**	**-.00093**	**.00392**	**1.000**
Stddev	.00069	.00021	.00051	.002
%RSD	24.336	22.701	13.042	.1662
#1	.00234	-.00078	.00356	1.002
#2	.00331	-.00108	.00428	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3660.6**	**5258.1**	**24703.**	**64930.**
Stddev	11.8	18.6	76.	76.
%RSD	.32203	.35429	.30808	.11691
#1	3669.0	5271.3	24756.	64876.
#2	3652.3	5244.9	24649.	64983.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	63.734%	74.417%	84.159%	72.822%
Range				

Sample Name: 480-213109-B-5-A@20 Acquired: 10/10/2023 3:31:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.01605**	**.00171**	**.20805**	**.00039**
Stddev	.00035	.00355	.00116	.00036	.00000
%RSD	241.71	22.116	67.536	.17321	.61743
#1	-.00010	.01856	.00253	.20780	.00039
#2	.00039	.01354	.00089	.20831	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**23.296**	**-.00026**	**.0042**	**-.00041**
Stddev	.00002	.745	.00038	.0361	.00012
%RSD	9.5267	3.1991	145.77	865.5	29.862
#1	-.00019	22.769	.00001	-.0214	-.00049
#2	-.00017	23.823	-.00053	.0297	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00085**	**.25292**	**2.1807**	**.14915**
Stddev	.00023	.00052	.00179	.0129	.00773
%RSD	86.880	61.750	.70669	.58931	5.1825
#1	-.00010	.00048	.25166	2.1898	.14368
#2	-.00042	.00122	.25419	2.1716	.15461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-5-A@20 Acquired: 10/10/2023 3:31:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.935**	**.02852**	**-.00058**	**502.10**	**.00035**
Stddev	.941	.00050	.00023	10.01	.00039
%RSD	1.4485	1.7662	40.005	1.9935	112.29
#1	64.270	.02816	-.00075	495.02	.00062
#2	65.600	.02888	-.00042	509.17	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00128**	F **418.20**	**.00050**	**-.00460**
Stddev	.00	.00039	.37	.00054	.00161
%RSD	.0025	30.029	.08936	107.75	35.001
#1	25.00	-.00156	418.47	.00012	-.00574
#2	25.00	-.00101	417.94	.00088	-.00346
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.31222**	**-.00029**	**.56681**	**1.011**	**.00126**
Stddev	.01973	.00046	.01712	.003	.00001
%RSD	6.3203	156.72	3.0198	.2532	.51536
#1	.29827	.00003	.55471	1.012	.00126
#2	.32618	-.00062	.57891	1.009	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-5-A@20 Acquired: 10/10/2023 3:31:06 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00409**	**-.00079**	**.00147**	**1.001**
Stddev	.00088	.00060	.00025	.000
%RSD	21.440	75.636	16.799	.0365
#1	.00347	-.00121	.00130	1.001
#2	.00471	-.00037	.00165	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5076.5**	**6692.9**	**31008.**	**82447.**
Stddev	10.3	11.0	467.	47.
%RSD	.20297	.16484	1.5074	.05732
#1	5069.2	6685.1	31338.	82414.
#2	5083.8	6700.7	30677.	82481.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.386%	94.724%	105.64%	92.469%
Range				

Sample Name: 480-213109-B-6-A Acquired: 10/10/2023 3:34:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.92627**	**-.00020**	**1.4371**	**.02227**
Stddev	.00039	.04687	.00107	.0086	.00022
%RSD	91.181	5.0600	523.38	.60025	1.0081
#1	-.00015	.89313	-.00096	1.4432	.02212
#2	-.00071	.95941	.00055	1.4310	.02243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**428.50**	**-.00143**	**-.1348**	**.00536**
Stddev	.00025	5.60	.00044	.0299	.00021
%RSD	110.94	1.3074	30.910	22.22	3.8645
#1	-.00005	424.54	-.00174	-.1136	.00521
#2	-.00040	432.46	-.00112	-.1560	.00551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**.00758**	**1.3104**	**16.652**	**1.4519**
Stddev	.00011	.00066	.0101	.244	.0071
%RSD	6.4888	8.7650	.77267	1.4638	.48754
#1	.00158	.00805	1.3032	16.480	1.4469
#2	.00173	.00711	1.3175	16.825	1.4569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-6-A Acquired: 10/10/2023 3:34:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **1750.4**	**4.8653**	**.00455**	F **5010.3**	**.02387**
Stddev	22.3	.0688	.00039	6.9	.00013
%RSD	1.2717	1.4150	8.6884	.13855	.56379
#1	1734.6	4.8166	.00482	5005.3	.02378
#2	1766.1	4.9140	.00427	5015.2	.02397
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**-.00067**	F **2690.7**	**.00310**	**-.00696**
Stddev	.00	.00162	17.3	.00342	.00277
%RSD	.0023	240.05	.64164	110.26	39.816
#1	25.04	-.00182	2702.9	.00552	-.00892
#2	25.04	.00047	2678.5	.00068	-.00500
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5280**	**-.00352**	F **11.753**	**.9896**	**.01841**
Stddev	.0232	.00098	.090	.0022	.00002
%RSD	.27220	27.738	.76184	.2247	.13506
#1	8.5116	-.00283	11.690	.9881	.01842
#2	8.5444	-.00421	11.816	.9912	.01839
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213109-B-6-A Acquired: 10/10/2023 3:34:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00166**	**-.00248**	**.00197**	**1.000**
Stddev	.00194	.00082	.00078	.001
%RSD	116.52	33.243	39.658	.0749
#1	.00029	-.00190	.00141	.9998
#2	.00304	-.00306	.00252	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3929.2**	**5525.4**	**25634.**	**69607.**
Stddev	3.3	5.8	270.	140.
%RSD	.08496	.10429	1.0521	.20071
#1	3931.6	5529.5	25824.	69706.
#2	3926.9	5521.3	25443.	69509.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.411%	78.200%	87.331%	78.068%
Range				

Sample Name: 480-213109-B-6-A@10 Acquired: 10/10/2023 3:38:23 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.04544**	**.00205**	**.14726**	**.00206**
Stddev	.00004	.02147	.00022	.00019	.00004
%RSD	4.7604	47.240	10.562	.12919	1.7879
#1	-.00078	.06062	.00189	.14739	.00208
#2	-.00073	.03026	.00220	.14712	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**40.269**	**.00025**	**-.0001**	**.00013**
Stddev	.00003	1.268	.00047	.0322	.00012
%RSD	23.022	3.1496	185.21	27020.	95.649
#1	-.00017	39.372	.00058	.0227	.00004
#2	-.00013	41.165	-.00008	-.0229	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00039**	**.10705**	**1.3371**	**.11018**
Stddev	.00018	.00032	.00292	.0563	.00868
%RSD	54.819	81.713	2.7323	4.2085	7.8774
#1	.00045	.00062	.10498	1.2973	.10404
#2	.00020	.00016	.10912	1.3769	.11632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-6-A@10 Acquired: 10/10/2023 3:38:23 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**199.44**	**.51733**	**-.00012**	**434.70**	**.00234**
Stddev	3.29	.00809	.00022	8.05	.00007
%RSD	1.6478	1.5637	184.21	1.8507	3.1108
#1	197.11	.51161	.00004	429.01	.00239
#2	201.76	.52305	-.00027	440.39	.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00103**	F **531.94**	**.00324**	**-.00393**
Stddev	.00	.00003	.20	.00006	.00313
%RSD	.0064	2.8467	.03739	1.8476	79.686
#1	25.00	-.00101	532.08	.00329	-.00172
#2	25.00	-.00105	531.80	.00320	-.00615
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76765**	**-.00058**	**1.0497**	**.9989**	**.00270**
Stddev	.01543	.00064	.0310	.0019	.00073
%RSD	2.0095	111.12	2.9573	.1890	26.972
#1	.75674	-.00012	1.0277	.9976	.00321
#2	.77855	-.00103	1.0716	1.000	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-6-A@10 Acquired: 10/10/2023 3:38:23 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00303**	**-.00089**	**.00013**	**.9993**
Stddev	.00207	.00007	.00058	.0004
%RSD	68.320	8.2036	443.11	.0354
#1	.00156	-.00084	-.00028	.9991
#2	.00449	-.00094	.00055	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5051.5**	**6667.4**	**30234.**	**82704.**
Stddev	6.1	1.6	476.	118.
%RSD	.12015	.02354	1.5756	.14303
#1	5047.2	6666.3	30571.	82787.
#2	5055.8	6668.6	29897.	82620.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.951%	94.364%	103.00%	92.756%
Range				

Sample Name: 480-213109-B-7-A Acquired: 10/10/2023 3:41:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**9.4974**	**.00342**	**1.8479**	**.06609**
Stddev	.00024	.0892	.00159	.0060	.00013
%RSD	84.871	.93962	46.504	.32442	.19750
#1	-.00045	9.4343	.00230	1.8521	.06618
#2	-.00011	9.5606	.00455	1.8436	.06600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**442.48**	**-.00010**	**-.0047**	**.00373**
Stddev	.00005	5.29	.00097	.0068	.00004
%RSD	28.136	1.1960	973.87	145.7	1.1111
#1	.00015	438.74	.00059	-.0095	.00375
#2	.00023	446.22	-.00078	.0001	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01135**	**.01400**	**8.2139**	**49.918**	**3.9043**
Stddev	.00025	.00144	.0365	.589	.0139
%RSD	2.2194	10.289	.44443	1.1806	.35557
#1	.01117	.01299	8.1881	49.501	3.8945
#2	.01152	.01502	8.2397	50.334	3.9141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-7-A Acquired: 10/10/2023 3:41:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **1021.3**	**.94367**	**.00093**	F **8054.9**	**.02425**
Stddev	8.2	.00286	.00055	8.0	.00058
%RSD	.80189	.30306	58.827	.09891	2.3828
#1	1015.5	.94165	.00055	8049.3	.02466
#2	1027.1	.94570	.00132	8060.5	.02384
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.17**	**.00510**	F **2767.7**	**.00063**	**.03831**
Stddev	.00	.00126	14.0	.00076	.00401
%RSD	.0036	24.674	.50504	119.33	10.469
#1	25.17	.00599	2757.8	.00010	.04114
#2	25.17	.00421	2777.6	.00117	.03547
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.876**	**-.00358**	**8.8049**	**.9905**	**.16418**
Stddev	.159	.00046	.1293	.0041	.00480
%RSD	.63832	12.970	1.4681	.4162	2.9247
#1	24.764	-.00390	8.7135	.9875	.16078
#2	24.988	-.00325	8.8963	.9934	.16757
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-7-A Acquired: 10/10/2023 3:41:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00297**	**.01571**	**.02901**	**1.005**
Stddev	.00024	.00032	.00001	.001
%RSD	8.1021	2.0267	.03848	.1259
#1	.00280	.01594	.02900	1.005
#2	.00314	.01549	.02902	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3787.0**	**5441.1**	**25217.**	**68278.**
Stddev	3.7	1.0	173.	90.
%RSD	.09853	.01846	.68725	.13160
#1	3789.7	5441.8	25340.	68342.
#2	3784.4	5440.4	25095.	68215.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	65.935%	77.007%	85.913%	76.577%
Range				

Sample Name: 480-213109-B-7-A@10 Acquired: 10/10/2023 3:45:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00137**	**1.0169**	**.00192**	**.19177**	**.00765**
Stddev	.00067	.0401	.00005	.00103	.00014
%RSD	49.160	3.9450	2.4565	.53917	1.8015
#1	-.00089	.98851	.00189	.19104	.00755
#2	-.00184	1.0452	.00196	.19250	.00774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**42.075**	**.00003**	**-.0085**	**.00013**
Stddev	.00005	1.259	.00031	.0334	.00015
%RSD	30.416	2.9911	991.65	393.1	109.31
#1	-.00012	41.185	-.00019	-.0321	.00024
#2	-.00019	42.965	.00025	.0151	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.00040**	**.74905**	**4.0248**	**.26911**
Stddev	.00024	.00055	.02487	.0673	.00426
%RSD	14.269	136.38	3.3206	1.6715	1.5816
#1	.00185	.00001	.73146	3.9772	.26610
#2	.00151	.00079	.76664	4.0724	.27212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-7-A@10 Acquired: 10/10/2023 3:45:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**113.40**	**.10069**	**-.00093**	**675.83**	**.00264**
Stddev	3.88	.00237	.00010	14.56	.00034
%RSD	3.4178	2.3578	10.588	2.1538	12.709
#1	110.66	.09901	-.00086	665.54	.00288
#2	116.14	.10237	-.00100	686.13	.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00008**	F **569.75**	**.00141**	**.00113**
Stddev	.00	.00017	.13	.00214	.00214
%RSD	.0047	204.02	.02309	151.52	188.61
#1	25.02	.00004	569.84	.00293	-.00038
#2	25.01	-.00021	569.65	-.00010	.00264
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7451**	**-.00051**	**.76343**	**1.005**	**.02921**
Stddev	.1124	.00022	.02536	.008	.00172
%RSD	4.0937	43.538	3.3217	.7578	5.8748
#1	2.6656	-.00035	.74550	1.010	.02799
#2	2.8245	-.00066	.78137	.9994	.03042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-7-A@10 Acquired: 10/10/2023 3:45:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00259**	**.00104**	**.00289**	**.9998**
Stddev	.00025	.00012	.00041	.0009
%RSD	9.5158	11.890	14.052	.0876
#1	.00276	.00095	.00318	.9992
#2	.00242	.00113	.00261	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4959.6**	**6602.0**	**29552.**	**81360.**
Stddev	.8	.9	634.	702.
%RSD	.01588	.01306	2.1442	.86248
#1	4960.2	6601.4	30000.	81856.
#2	4959.1	6602.6	29104.	80864.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.351%	93.437%	100.68%	91.250%
Range				

Sample Name: 480-213109-B-8-A Acquired: 10/10/2023 3:49:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.78319**	**.00010**	**.48987**	**.01069**
Stddev	.00048	.02877	.00098	.00209	.00000
%RSD	74.353	3.6737	950.51	.42605	.03451
#1	-.00098	.80353	-.00059	.49134	.01069
#2	-.00031	.76284	.00080	.48839	.01069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**397.41**	**.00012**	**-.0160**	**.00275**
Stddev	.00015	2.87	.00098	.0626	.00028
%RSD	58.590	.72127	846.71	390.3	10.329
#1	-.00015	395.38	.00081	-.0603	.00255
#2	-.00037	399.44	-.00058	.0282	.00295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.01228**	**.38661**	**5.7556**	**.25738**
Stddev	.00011	.00070	.00434	.0371	.00458
%RSD	2.5571	5.6790	1.1221	.64432	1.7785
#1	.00426	.01278	.38355	5.7294	.26061
#2	.00411	.01179	.38968	5.7818	.25414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-8-A Acquired: 10/10/2023 3:49:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**308.92**	**.77435**	**.00035**	F **1289.8**	**.00600**
Stddev	.87	.00296	.00011	1.5	.00247
%RSD	.28034	.38224	32.377	.11968	41.165
#1	309.53	.77644	.00027	1288.8	.00425
#2	308.31	.77225	.00043	1290.9	.00775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00073**	F **1203.5**	**.00113**	**-.00816**
Stddev	.00	.00028	5.7	.00049	.00062
%RSD	.0021	38.650	.47117	43.460	7.5527
#1	25.03	-.00093	1199.5	.00078	-.00772
#2	25.03	-.00053	1207.5	.00147	-.00859
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1203**	**-.00123**	**6.0791**	**.9962**	**.01264**
Stddev	.0187	.00002	.0762	.0044	.00039
%RSD	.20496	1.3867	1.2536	.4426	3.0561
#1	9.1336	-.00124	6.0252	.9931	.01291
#2	9.1071	-.00121	6.1330	.9993	.01237
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213109-B-8-A Acquired: 10/10/2023 3:49:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00259**	**-.00059**	**.02452**	**.9997**
Stddev	.00173	.00018	.00063	.0002
%RSD	66.690	30.967	2.5604	.0167
#1	.00381	-.00046	.02408	.9996
#2	.00137	-.00072	.02496	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4562.1**	**6208.2**	**28410.**	**76657.**
Stddev	2.3	1.3	39.	126.
%RSD	.05065	.02133	.13587	.16431
#1	4563.7	6209.1	28382.	76568.
#2	4560.5	6207.3	28437.	76746.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.429%	87.864%	96.789%	85.974%
Range				

Sample Name: 480-213112-A-1-A Acquired: 10/10/2023 3:52:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.02841**	**.01884**	**.25582**	**.46466**
Stddev	.00043	.01615	.00017	.00130	.00071
%RSD	38.044	56.835	.90269	.50724	.15222
#1	-.00082	.01699	.01872	.25674	.46416
#2	-.00143	.03983	.01896	.25491	.46516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**407.15**	**.00121**	**-.0555**	**-.00011**
Stddev	.00000	8.77	.00050	.0374	.00014
%RSD	.71165	2.1540	41.743	67.45	121.36
#1	-.00024	400.95	.00157	-.0290	-.00002
#2	-.00024	413.36	.00085	-.0820	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00726**	**.00617**	**61.480**	**19.624**	**.07603**
Stddev	.00016	.00012	.676	.018	.00451
%RSD	2.2047	1.9868	1.0988	.08939	5.9328
#1	.00738	.00625	61.002	19.612	.07284
#2	.00715	.00608	61.958	19.637	.07922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213112-A-1-A Acquired: 10/10/2023 3:52:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.517**	**3.1460**	**.00014**	**583.40**	**.00980**
Stddev	.128	.0384	.00000	2.56	.00015
%RSD	.33116	1.2196	.01376	.43824	1.5119
#1	38.607	3.1732	.00014	581.59	.00969
#2	38.427	3.1189	.00014	585.20	.00990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00839**	**2.4619**	**-.00649**	**-.00775**
Stddev	.00	.00080	.0088	.00217	.00543
%RSD	.0006	9.5644	.35700	33.467	70.069
#1	25.00	.00782	2.4681	-.00803	-.00391
#2	25.00	.00896	2.4556	-.00496	-.01159
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.273**	**-.00022**	**6.6966**	**1.024**	**.00356**
Stddev	.096	.00064	.1151	.001	.00013
%RSD	.62543	296.87	1.7190	.1357	3.6728
#1	15.206	.00024	6.6152	1.025	.00365
#2	15.341	-.00067	6.7780	1.023	.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213112-A-1-A Acquired: 10/10/2023 3:52:52 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00164**	**.00302**	**.00105**	**1.001**
Stddev	.00054	.00093	.00003	.001
%RSD	32.997	30.779	3.0964	.0944
#1	.00126	.00236	.00102	1.001
#2	.00202	.00368	.00107	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4815.6**	**6430.5**	**28446.**	**80035.**
Stddev	7.9	5.7	257.	222.
%RSD	.16381	.08872	.90264	.27739
#1	4821.2	6434.5	28265.	80192.
#2	4810.1	6426.4	28628.	79878.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.844%	91.010%	96.914%	89.763%
Range				

Sample Name: 480-213112-A-1-B MS Acquired: 10/10/2023 3:56:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04711**	**11.045**	**.23360**	**.45693**	**.64950**
Stddev	.00034	.092	.00226	.00131	.00139
%RSD	.72432	.83304	.96930	.28644	.21332
#1	.04736	10.980	.23200	.45785	.64852
#2	.04687	11.110	.23520	.45600	.65048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22266**	**415.45**	**.22127**	**-.0934**	**.21656**
Stddev	.00163	5.31	.00027	.0028	.00148
%RSD	.73405	1.2774	.11999	3.018	.68241
#1	.22150	411.69	.22145	-.0915	.21760
#2	.22381	419.20	.22108	-.0954	.21551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19351**	**.19772**	**72.377**	**30.292**	**.28439**
Stddev	.00083	.00134	.839	.046	.00579
%RSD	.43099	.67940	1.1592	.15114	2.0370
#1	.19292	.19677	71.783	30.260	.28029
#2	.19410	.19867	72.970	30.325	.28848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213112-A-1-B MS Acquired: 10/10/2023 3:56:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.538**	**3.2240**	**.20103**	**584.85**	**.21912**
Stddev	.221	.0014	.00245	1.30	.00179
%RSD	.47462	.04390	1.2175	.22306	.81783
#1	46.382	3.2230	.20276	583.93	.22039
#2	46.694	3.2250	.19930	585.77	.21786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.22006**	**12.489**	**.22130**	**.19547**
Stddev	.00	.00099	.176	.00104	.00466
%RSD	.0013	.45177	1.4083	.47218	2.3835
#1	25.00	.22076	12.613	.22204	.19877
#2	25.00	.21936	12.364	.22056	.19218
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.863**	**.20618**	**6.7789**	**1.039**	**.19992**
Stddev	.027	.00266	.0274	.004	.00063
%RSD	.10460	1.2898	.40408	.3927	.31304
#1	25.882	.20806	6.7595	1.042	.19948
#2	25.844	.20430	6.7982	1.036	.20037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213112-A-1-B MS Acquired: 10/10/2023 3:56:37 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20722**	**.19656**	**.18625**	**1.001**
Stddev	.00105	.00004	.00039	.000
%RSD	.50449	.02079	.20882	.0333
#1	.20648	.19653	.18653	1.002
#2	.20796	.19659	.18598	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4752.2**	**6392.7**	**29143.**	**79473.**
Stddev	15.8	16.8	91.	254.
%RSD	.33217	.26343	.31201	.31966
#1	4763.4	6404.6	29207.	79294.
#2	4741.0	6380.7	29078.	79653.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.739%	90.475%	99.286%	89.133%
Range				

Sample Name: CCV-7538313 Acquired: 10/10/2023 4:00:19 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0038**	F **55.377**	**1.0702**	**1.0644**	**1.0855**
Stddev	.0042	.109	.0031	.0000	.0017
%RSD	.41417	.19612	.28798	.00082	.15803
#1	1.0067	55.300	1.0724	1.0644	1.0843
#2	1.0009	55.454	1.0680	1.0644	1.0867
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		50.000			
Range		10.000%			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0940**	**53.287**	F **1.1052**	**1.045**	**1.0796**
Stddev	.0036	.141	.0030	.025	.0003
%RSD	.32832	.26384	.27200	2.413	.02928
#1	1.0914	53.188	1.1031	1.063	1.0798
#2	1.0965	53.387	1.1074	1.027	1.0794
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
Value			1.0000		
Range			10.000%		

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0134**	**1.0164**	**53.844**	**53.985**	**1.0530**
Stddev	.0039	.0006	.210	.012	.0020
%RSD	.38029	.05412	.38965	.02148	.19331
#1	1.0162	1.0168	53.695	53.994	1.0516
#2	1.0107	1.0160	53.992	53.977	1.0544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 4:00:19 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.708**	**1.0298**	**1.0576**	**50.796**	**1.0797**
Stddev	.116	.0026	.0027	.037	.0007
%RSD	.22003	.25455	.25648	.07309	.06492
#1	52.790	1.0317	1.0596	50.769	1.0802
#2	52.626	1.0280	1.0557	50.822	1.0792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.31**	**1.0819**	**26.306**	**1.0722**	**1.0644**
Stddev	.01	.0001	.031	.0042	.0003
%RSD	.0329	.01109	.11647	.38750	.02378
#1	38.30	1.0818	26.328	1.0692	1.0642
#2	38.32	1.0820	26.285	1.0751	1.0646
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **11.354**	**1.0654**	**1.0977**	**1.545**	**1.0274**
Stddev	.042	.0012	.0044	.010	.0029
%RSD	.37382	.10803	.40113	.6193	.27716
#1	11.324	1.0646	1.0946	1.539	1.0295
#2	11.384	1.0662	1.1008	1.552	1.0254
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
Value	10.000				
Range	10.000%				

Sample Name: CCV-7538313 Acquired: 10/10/2023 4:00:19 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0647**	**1.0327**	**1.0476**	**1.537**
Stddev	.0026	.0041	.0007	.003
%RSD	.24792	.39944	.06715	.1636
#1	1.0665	1.0356	1.0471	1.535
#2	1.0628	1.0297	1.0481	1.538
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5165.8**	**6716.1**	**29706.**	**81694.**
Stddev	8.0	11.5	29.	341.
%RSD	.15412	.17114	.09654	.41741
#1	5160.1	6707.9	29686.	81453.
#2	5171.4	6724.2	29726.	81935.

Sample Name: CCB-7506043 Acquired: 10/10/2023 4:03:32 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**-.04705**	**.00196**	**.00126**	**-.00028**
Stddev	.00005	.03909	.00101	.00013	.00002
%RSD	6.6688	83.075	51.762	10.039	8.4845
#1	-.00071	-.01941	.00124	.00117	-.00030
#2	-.00079	-.07469	.00267	.00135	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.01643**	**-.00024**	**.0075**	**-.00030**
Stddev	.00006	.00180	.00048	.0039	.00001
%RSD	35.640	10.967	199.06	52.40	3.2631
#1	-.00013	-.01516	-.00059	.0103	-.00031
#2	-.00022	-.01771	.00010	.0047	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00023**	**-.00885**	**.10456**	**.00008**
Stddev	.00008	.00128	.00505	.00818	.00056
%RSD	41.173	563.28	57.069	7.8272	730.73
#1	-.00025	-.00068	-.00528	.09877	-.00032
#2	-.00014	.00113	-.01242	.11034	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 4:03:32 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00419**	**-.00030**	**.00140**	**.83936**	**-.00082**
Stddev	.00155	.00001	.00030	.01492	.00005
%RSD	37.001	2.4869	21.138	1.7776	6.5344
#1	-.00528	-.00029	.00119	.82881	-.00086
#2	-.00309	-.00030	.00161	.84991	-.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00070**	F **.30813**	**.00025**	**.00024**
Stddev	.00	.00046	.03615	.00170	.00251
%RSD	.0006	66.159	11.733	693.25	1048.2
#1	25.00	-.00037	.33369	.00145	.00201
#2	25.00	-.00103	.28256	-.00096	-.00153
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.20000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00460**	**-.00004**	**-.00018**	**1.008**	**.00017**
Stddev	.00838	.00020	.00002	.010	.00005
%RSD	182.03	449.10	12.751	1.025	28.693
#1	-.00132	.00010	-.00016	1.015	.00021
#2	.01053	-.00019	-.00019	1.000	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 4:03:32 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00090**	**-.00024**	**-.00055**	**1.0000**
Stddev	.00133	.00069	.00032	.0011
%RSD	148.67	288.89	58.451	.1126
#1	-.00184	-.00072	-.00032	.9992
#2	.00005	.00025	-.00077	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5745.5**	**7180.4**	**31681.**	**88886.**
Stddev	7.6	17.9	272.	231.
%RSD	.13244	.24906	.85965	.25941
#1	5750.9	7193.1	31489.	89049.
#2	5740.1	7167.8	31874.	88723.

Sample Name: CCVL-7610998 Acquired: 10/10/2023 4:06:55 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00593**	**.15358**	**.01573**	**.02095**	**.00173**
Stddev	.00002	.00163	.00021	.00038	.00001
%RSD	.40868	1.0590	1.3397	1.8115	.49145
#1	.00591	.15243	.01588	.02068	.00174
#2	.00595	.15473	.01558	.02122	.00173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.48844**	**.00215**	**-.0346**	**.00367**
Stddev	.00005	.00468	.00057	.0356	.00008
%RSD	2.7706	.95720	26.296	102.7	2.1452
#1	.00171	.48514	.00255	-.0598	.00361
#2	.00164	.49175	.00175	-.0095	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00393**	**.00916**	W **.03486**	**.57092**	**.02912**
Stddev	.00015	.00069	.00332	.01682	.00001
%RSD	3.8610	7.5375	9.5116	2.9466	.03519
#1	.00383	.00964	.03251	.55902	.02911
#2	.00404	.00867	.03720	.58281	.02912
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value			.05000		
Range			-30.000%		

Sample Name: CCVL-7610998 Acquired: 10/10/2023 4:06:55 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18848**	**.00282**	**.00965**	F **1.8363**	**.00988**
Stddev	.00267	.00006	.00002	.0326	.00029
%RSD	1.4142	2.0970	.16400	1.7730	2.9363
#1	.18660	.00278	.00964	1.8593	.00967
#2	.19037	.00286	.00966	1.8132	.01008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				1.0000	
Range				50.000%	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00866**	F **.45780**	**.02259**	**.02560**
Stddev	.00	.00073	.00684	.00016	.00314
%RSD	.0003	8.4646	1.4949	.72574	12.278
#1	25.00	.00814	.46263	.02270	.02783
#2	25.00	.00918	.45296	.02247	.02338
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value	.0060		.20000		
Range	50.00%		50.000%		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49347**	**.00971**	**.00478**	F **1.006**	**.00466**
Stddev	.00218	.00072	.00002	.004	.00032
%RSD	.44190	7.3959	.37556	.4020	6.9685
#1	.49193	.01022	.00477	1.003	.00443
#2	.49501	.00920	.00479	1.008	.00489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/10/2023 4:06:55 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01831**	**.00405**	**.00978**	F **1.000**
Stddev	.00026	.00048	.00023	.001
%RSD	1.4211	11.771	2.3404	.0611
#1	.01849	.00371	.00962	1.000
#2	.01812	.00438	.00995	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5443.0**	**6833.0**	**30787.**	**85316.**
Stddev	71.8	109.1	73.	334.
%RSD	1.3184	1.5969	.23595	.39184
#1	5493.8	6910.2	30736.	85552.
#2	5392.3	6755.9	30839.	85080.

Sample Name: 480-213112-A-1-C MSD Acquired: 10/10/2023 4:10:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04694**	**11.109**	**.23533**	**.46270**	**.65225**
Stddev	.00094	.386	.00388	.00143	.00141
%RSD	2.0004	3.4768	1.6495	.30900	.21566
#1	.04628	10.836	.23808	.46371	.65125
#2	.04761	11.382	.23259	.46169	.65324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22388**	**416.74**	**.22026**	**-.0700**	**.21976**
Stddev	.00740	16.87	.00229	.0113	.00186
%RSD	3.3063	4.0491	1.0395	16.13	.84630
#1	.21864	404.81	.22188	-.0780	.22108
#2	.22911	428.67	.21864	-.0620	.21845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20242**	**.20662**	**71.790**	**30.572**	**.28378**
Stddev	.00104	.00021	1.914	.714	.00843
%RSD	.51591	.10039	2.6655	2.3342	2.9700
#1	.20316	.20677	70.437	30.067	.27782
#2	.20168	.20647	73.144	31.077	.28974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213112-A-1-C MSD Acquired: 10/10/2023 4:10:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.270**	**3.3102**	**.20657**	**584.80**	**.22193**
Stddev	.122	.0015	.00190	14.42	.00211
%RSD	.25242	.04462	.91812	2.4660	.95188
#1	48.184	3.3112	.20791	574.61	.22342
#2	48.357	3.3091	.20523	595.00	.22043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.22363**	**12.187**	**.22684**	**.19935**
Stddev	.00	.00025	.014	.00341	.00154
%RSD	.0012	.10971	.11383	1.5025	.77442
#1	25.00	.22345	12.197	.22925	.19826
#2	25.00	.22380	12.178	.22443	.20044
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.975**	**.21074**	**6.7243**	**1.031**	**.20652**
Stddev	.639	.00165	.2594	.003	.00071
%RSD	2.4604	.78083	3.8569	.2397	.34566
#1	25.524	.21190	6.5409	1.032	.20703
#2	26.427	.20958	6.9077	1.029	.20602
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213112-A-1-C MSD Acquired: 10/10/2023 4:10:18 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21017**	**.20434**	**.19502**	**1.001**
Stddev	.00092	.00019	.00044	.001
%RSD	.43992	.09272	.22360	.1007
#1	.21083	.20447	.19472	1.000
#2	.20952	.20420	.19533	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4656.5**	**6239.2**	**27880.**	**77756.**
Stddev	17.5	20.0	49.	1027.
%RSD	.37590	.32086	.17712	1.3202
#1	4644.1	6225.1	27915.	78482.
#2	4668.9	6253.4	27845.	77030.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.073%	88.304%	94.984%	87.207%
Range				

Sample Name: 480-213112-A-2-A Acquired: 10/10/2023 4:13:59 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00173**	**.02363**	**.02318**	**.25631**	**.47011**
Stddev	.00023	.00441	.00013	.00156	.00582
%RSD	13.575	18.646	.54541	.61042	1.2375
#1	-.00189	.02675	.02309	.25742	.46600
#2	-.00156	.02052	.02327	.25520	.47423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**402.00**	**.00008**	**-.0929**	**.00019**
Stddev	.00008	5.39	.00026	.0019	.00003
%RSD	37.334	1.3412	340.22	2.056	18.626
#1	-.00028	398.19	-.00011	-.0915	.00016
#2	-.00016	405.81	.00026	-.0942	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00655**	**.00646**	**47.775**	**19.117**	**.07754**
Stddev	.00030	.00028	.504	.070	.00054
%RSD	4.6381	4.2648	1.0546	.36517	.69967
#1	.00634	.00626	47.418	19.067	.07716
#2	.00677	.00665	48.131	19.166	.07793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213112-A-2-A Acquired: 10/10/2023 4:13:59 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.400**	**3.0634**	**.00164**	**563.19**	**.00984**
Stddev	.171	.0184	.00002	5.43	.00005
%RSD	.44573	.60069	1.4817	.96400	.53850
#1	38.521	3.0503	.00162	559.35	.00987
#2	38.278	3.0764	.00166	567.02	.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00678**	**1.7353**	**-.00680**	**-.00781**
Stddev	.00	.00075	.0411	.00153	.00179
%RSD	.0046	11.099	2.3677	22.527	22.884
#1	25.00	.00625	1.7063	-.00788	-.00655
#2	25.00	.00731	1.7644	-.00572	-.00907
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.722**	**-.00082**	**6.5242**	**1.025**	**.00387**
Stddev	.202	.00002	.1378	.001	.00047
%RSD	1.3699	2.9006	2.1115	.0999	12.164
#1	14.580	-.00080	6.4268	1.024	.00420
#2	14.865	-.00084	6.6217	1.026	.00354
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213112-A-2-A Acquired: 10/10/2023 4:13:59 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00216**	**.00307**	**.00126**	**1.002**
Stddev	.00057	.00016	.00001	.000
%RSD	26.188	5.1886	.41986	.0155
#1	.00256	.00318	.00125	1.002
#2	.00176	.00295	.00126	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4715.4**	**6286.5**	**27731.**	**78386.**
Stddev	5.0	13.2	.	225.
%RSD	.10565	.21050	.00089	.28748
#1	4718.9	6295.8	27730.	78545.
#2	4711.9	6277.1	27731.	78226.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.098%	88.972%	94.475%	87.913%
Range				

Sample Name: rinse Acquired: 10/10/2023 4:17:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.14434**	**-.00152**	**.00079**	**-.00023**
Stddev	.00019	.02796	.00016	.00027	.00001
%RSD	24.514	19.372	10.841	33.659	4.3999
#1	-.00089	.16411	-.00163	.00098	-.00023
#2	-.00063	.12457	-.00140	.00060	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.03090**	**.00013**	**-.0223**	**-.00035**
Stddev	.00003	.00099	.00021	.0059	.00010
%RSD	20.837	3.1936	168.26	26.46	29.386
#1	-.00013	.03159	-.00002	-.0181	-.00028
#2	-.00018	.03020	.00028	-.0265	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00045**	**.00696**	**.06952**	**-.00075**
Stddev	.00037	.00071	.00636	.02581	.00274
%RSD	362.68	156.88	91.290	37.124	365.95
#1	-.00016	.00096	.01146	.05127	.00119
#2	.00036	-.00005	.00247	.08777	-.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 4:17:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01671**	**-.00013**	**-.00072**	**1.2433**	**-.00030**
Stddev	.00660	.00006	.00027	.0418	.00016
%RSD	39.487	43.906	36.953	3.3625	51.715
#1	.01204	-.00017	-.00091	1.2137	-.00019
#2	.02137	-.00009	-.00053	1.2728	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00104**	**.23621**	**-.00263**	**-.00123**
Stddev	.00	.00004	.03054	.00137	.00093
%RSD	.0004	4.2603	12.928	52.278	76.307
#1	25.00	-.00101	.25780	-.00360	-.00189
#2	25.00	-.00108	.21461	-.00166	-.00056
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00894**	**.00043**	**.00049**	**1.003**	**-.00002**
Stddev	.00294	.00090	.00009	.008	.00029
%RSD	32.875	209.61	19.240	.8348	1755.2
#1	-.00686	.00107	.00042	.9971	-.00022
#2	-.01102	-.00021	.00055	1.009	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 4:17:44 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00135**	**-.00027**	**.00839**	**.9997**
Stddev	.00096	.00045	.00041	.0006
%RSD	71.095	166.88	4.8680	.0585
#1	-.00067	-.00059	.00810	.9993
#2	-.00203	.00005	.00868	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5610.3**	**7009.3**	**31044.**	**87882.**
Stddev	4.5	16.9	245.	1456.
%RSD	.07944	.24180	.78792	1.6562
#1	5613.5	7021.3	31217.	88911.
#2	5607.2	6997.3	30871.	86852.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.680%	99.202%	105.76%	98.564%
Range				

Sample Name: MB 480-685605/1-A Acquired: 10/10/2023 4:21:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**-.03245**	**-.00197**	**.00216**	**-.00017**
Stddev	.00030	.00431	.00120	.00040	.00001
%RSD	38.609	13.295	60.975	18.584	6.8509
#1	-.00099	-.02940	-.00283	.00244	-.00018
#2	-.00056	-.03550	-.00112	.00187	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.01313**	**-.00049**	**-.0030**	**-.00045**
Stddev	.00009	.00321	.00032	.0063	.00009
%RSD	30.902	24.440	64.491	212.1	20.584
#1	-.00022	.01086	-.00072	-.0074	-.00052
#2	-.00034	.01540	-.00027	.0015	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00117**	**.00045**	**-.00219**	**.09436**	**.00004**
Stddev	.00042	.00078	.00105	.06662	.00011
%RSD	35.543	174.38	47.681	70.595	296.34
#1	.00146	-.00010	-.00145	.04726	-.00004
#2	.00087	.00100	-.00293	.14147	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685605/1-A Acquired: 10/10/2023 4:21:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00769**	**.00038**	**-.00062**	**.94887**	**.00010**
Stddev	.00046	.00004	.00028	.00537	.00007
%RSD	5.9591	10.260	45.313	.56549	62.836
#1	-.00802	.00041	-.00082	.95266	.00015
#2	-.00737	.00036	-.00042	.94508	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00002**	**.16159**	**.00093**	**.00002**
Stddev	.00	.00065	.05170	.00020	.00067
%RSD	.0015	4309.5	31.997	22.060	3492.9
#1	25.02	-.00045	.12503	.00078	-.00046
#2	25.02	.00048	.19815	.00107	.00049
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20565**	F **.04576**	**-.00015**	**1.005**	**-.00037**
Stddev	.00983	.00129	.00005	.005	.00013
%RSD	4.7793	2.8216	32.447	.4618	36.511
#1	.19870	.04484	-.00018	1.002	-.00027
#2	.21260	.04667	-.00011	1.008	-.00046
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: MB 480-685605/1-A Acquired: 10/10/2023 4:21:07 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00164**	**-.00051**	**.00088**	**.9994**
Stddev	.00076	.00011	.00002	.0006
%RSD	46.542	21.473	2.7976	.0646
#1	-.00217	-.00058	.00086	.9999
#2	-.00110	-.00043	.00090	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5416.1**	**6801.0**	**29106.**	**84328.**
Stddev	14.6	9.5	122.	34.
%RSD	.26876	.14032	.41837	.03979
#1	5426.4	6807.7	29020.	84304.
#2	5405.8	6794.2	29192.	84351.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.298%	96.254%	99.162%	94.578%
Range				

Sample Name: LCSSRM 480-685605/2- Acquired: 10/10/2023 4:24:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41793**	**98.651**	**1.6147**	**2.3203**	**3.3122**
Stddev	.00112	.422	.0091	.0039	.0285
%RSD	.26746	.42765	.56035	.16753	.86160
#1	.41872	98.352	1.6211	2.3231	3.2920
#2	.41714	98.949	1.6083	2.3176	3.3324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4249**	**48.875**	**.96805**	**.5477**	**1.6397**
Stddev	.0122	.512	.00017	.0309	.0027
%RSD	.85832	1.0467	.01735	5.637	.16263
#1	1.4162	48.513	.96793	.5259	1.6416
#2	1.4335	49.237	.96816	.5695	1.6378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1457**	**1.0779**	**76.651**	**18.076**	**1.0914**
Stddev	.0067	.0012	.841	.126	.0088
%RSD	.31331	.10675	1.0977	.69661	.80610
#1	2.1410	1.0787	76.056	17.987	1.0851
#2	2.1505	1.0771	77.246	18.165	1.0976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-685605/2- Acquired: 10/10/2023 4:24:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.396**	**3.7076**	**.47612**	**4.8076**	**1.0673**
Stddev	.007	.0251	.00163	.0403	.0028
%RSD	.03507	.67769	.34261	.83803	.26459
#1	21.391	3.7253	.47727	4.7791	1.0693
#2	21.402	3.6898	.47497	4.8361	1.0653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.05**	**1.4463**	**.68096**	**.97189**	**.83914**
Stddev	.00	.0063	.05084	.00505	.00376
%RSD	.0069	.43258	7.4666	.51996	.44779
#1	26.05	1.4508	.71691	.97546	.83648
#2	26.05	1.4419	.64501	.96832	.84180
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6440**	**.95080**	**2.0482**	**1.079**	**3.7209**
Stddev	.0135	.00023	.0145	.001	.0010
%RSD	.29037	.02375	.70952	.1282	.02582
#1	4.6535	.95096	2.0379	1.078	3.7215
#2	4.6345	.95064	2.0584	1.080	3.7202
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-685605/2- Acquired: 10/10/2023 4:24:31 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.6786**	**1.1210**	**3.2805**	**1.042**
Stddev	.0006	.0000	.0029	.000
%RSD	.03284	.00204	.08959	.0132
#1	1.6782	1.1210	3.2825	1.042
#2	1.6790	1.1210	3.2784	1.042
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5153.1**	**7129.5**	**30506.**	**87033.**
Stddev	12.7	16.1	91.	306.
%RSD	.24671	.22571	.29769	.35121
#1	5144.1	7118.1	30441.	86817.
#2	5162.1	7140.9	30570.	87249.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.719%	100.90%	103.93%	97.612%
Range				

Sample Name: 480-213025-A-8-B Acquired: 10/10/2023 4:27:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**58.672**	**.27509**	**.10102**	**7.9165**
Stddev	.00034	.217	.00282	.00128	.1473
%RSD	42.668	.36965	1.0259	1.2643	1.8608
#1	-.00103	58.519	.27709	.10192	7.8123
#2	-.00055	58.825	.27310	.10012	8.0206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00680**	**130.12**	**.06811**	**.1858**	**.05680**
Stddev	.00003	.75	.00092	.0046	.00008
%RSD	.45046	.57310	1.3565	2.460	.13226
#1	.00682	130.64	.06745	.1825	.05675
#2	.00677	129.59	.06876	.1890	.05686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0729**	**1.6614**	**248.67**	**7.6802**	**.07110**
Stddev	.0021	.0052	.11	.0836	.00042
%RSD	.06850	.31186	.04334	1.0884	.58484
#1	3.0714	1.6577	248.59	7.6211	.07081
#2	3.0744	1.6651	248.75	7.7394	.07140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-8-B Acquired: 10/10/2023 4:27:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.924**	**2.4216**	**.02069**	**2.1714**	**.23642**
Stddev	.039	.0245	.00001	.0565	.00052
%RSD	.17591	1.0137	.02444	2.6029	.21818
#1	21.897	2.4042	.02069	2.1315	.23678
#2	21.952	2.4390	.02070	2.2114	.23605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.29**	**18.468**	**9.6508**	F **-.02457**	**.01029**
Stddev	.01	.081	.1157	.00395	.00171
%RSD	.0334	.44062	1.1988	16.076	16.621
#1	27.30	18.525	9.7326	-.02177	.00908
#2	27.29	18.410	9.5690	-.02736	.01150
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2988**	**.48365**	**1.3034**	**1.123**	**1.7702**
Stddev	.1303	.00318	.0060	.007	.0051
%RSD	1.5695	.65759	.45778	.6576	.28587
#1	8.3909	.48590	1.2992	1.118	1.7666
#2	8.2067	.48140	1.3076	1.128	1.7738
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-8-B Acquired: 10/10/2023 4:27:50 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00035**	**.19125**	**13.053**	**1.015**
Stddev	.00065	.00077	.062	.000
%RSD	185.54	.40166	.47542	.0315
#1	.00081	.19071	13.009	1.015
#2	-.00011	.19179	13.096	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5132.7**	**7059.9**	**30872.**	**87760.**
Stddev	7.1	10.8	87.	52.
%RSD	.13882	.15334	.28178	.05892
#1	5127.6	7052.3	30933.	87724.
#2	5137.7	7067.6	30810.	87797.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.364%	99.919%	105.18%	98.428%
Range				

Sample Name: 480-213025-A-9-B Acquired: 10/10/2023 4:31:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**46.903**	**.20457**	**.10672**	**6.1071**
Stddev	.00072	.570	.00170	.00045	.0030
%RSD	33.296	1.2162	.82965	.42326	.04859
#1	.00268	46.500	.20337	.10640	6.1092
#2	.00166	47.306	.20577	.10704	6.1050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00378**	**47.151**	**4.2117**	**.1602**	**.06829**
Stddev	.00002	.391	.0061	.0247	.00014
%RSD	.42523	.82876	.14419	15.44	.19868
#1	.00379	46.875	4.2160	.1427	.06820
#2	.00377	47.427	4.2074	.1777	.06839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35584**	**5.3657**	**251.19**	**5.0120**	**.04058**
Stddev	.00648	.0591	1.33	.0449	.00446
%RSD	1.8200	1.1013	.53086	.89619	10.995
#1	.35126	5.3239	250.25	4.9803	.03743
#2	.36042	5.4075	252.13	5.0438	.04373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-9-B Acquired: 10/10/2023 4:31:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.826**	**1.6085**	**.01783**	**1.6966**	**.97817**
Stddev	.226	.0197	.00008	.0034	.00083
%RSD	1.1399	1.2221	.47498	.20065	.08445
#1	19.666	1.5946	.01789	1.6990	.97876
#2	19.986	1.6224	.01777	1.6941	.97759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.79**	**25.348**	**19.159**	**.05635**	**.00916**
Stddev	.00	.024	.034	.00148	.00518
%RSD	.0148	.09415	.17900	2.6303	56.541
#1	28.80	25.331	19.183	.05531	.00550
#2	28.79	25.364	19.135	.05740	.01282
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2308**	**1.6828**	**.38326**	**1.113**	**1.2401**
Stddev	.0400	.0026	.00508	.005	.0157
%RSD	.55367	.15534	1.3247	.4719	1.2622
#1	7.2025	1.6847	.37967	1.117	1.2290
#2	7.2591	1.6810	.38685	1.110	1.2512
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-9-B Acquired: 10/10/2023 4:31:25 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00009**	**.11770**	**15.438**	**1.014**
Stddev	.00219	.00168	.207	.001
%RSD	2365.0	1.4262	1.3399	.0612
#1	-.00146	.11652	15.292	1.015
#2	.00164	.11889	15.585	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5230.1**	**6885.7**	**29541.**	**85507.**
Stddev	7.9	3.5	530.	196.
%RSD	.15091	.05070	1.7946	.22932
#1	5235.7	6888.2	29916.	85646.
#2	5224.5	6883.3	29166.	85369.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.060%	97.453%	100.64%	95.901%
Range				

Sample Name: 480-213025-A-10-B Acquired: 10/10/2023 4:34:54 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00362**	**167.54**	**.10421**	**.16897**	**1.2120**
Stddev	.00032	.48	.00191	.00015	.0010
%RSD	8.7406	.28419	1.8280	.08586	.08219
#1	-.00340	167.88	.10556	.16908	1.2127
#2	-.00385	167.20	.10287	.16887	1.2113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01014**	**37.192**	**.01269**	**.3626**	**.14457**
Stddev	.00003	.085	.00058	.0402	.00041
%RSD	.29214	.22889	4.5343	11.09	.28038
#1	.01012	37.132	.01310	.3910	.14486
#2	.01016	37.252	.01229	.3341	.14429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20660**	**.82226**	**236.17**	**36.764**	**.20143**
Stddev	.00122	.00144	.32	.140	.00297
%RSD	.59206	.17505	.13667	.38206	1.4759
#1	.20573	.82124	235.95	36.863	.20353
#2	.20746	.82328	236.40	36.665	.19932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-10-B Acquired: 10/10/2023 4:34:54 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.258**	**5.0317**	**.01659**	**2.0282**	**.23823**
Stddev	.052	.0419	.00023	.0024	.00029
%RSD	.12319	.83199	1.3870	.11612	.12303
#1	42.221	5.0021	.01675	2.0266	.23844
#2	42.295	5.0613	.01643	2.0299	.23802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.98**	**.59992**	**3.1614**	**-.01590**	**.00251**
Stddev	.01	.00017	.0661	.00253	.00008
%RSD	.0265	.02821	2.0908	15.906	3.1048
#1	27.98	.59980	3.2081	-.01769	.00246
#2	27.97	.60004	3.1146	-.01411	.00257
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9654**	**.09695**	**.39737**	**1.127**	**2.1983**
Stddev	.0646	.00033	.00081	.004	.0073
%RSD	1.3010	.34377	.20312	.3526	.32971
#1	5.0111	.09719	.39794	1.124	2.1932
#2	4.9198	.09672	.39680	1.130	2.2034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-10-B Acquired: 10/10/2023 4:34:54 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00358**	**.31371**	**.98271**	**1.046**
Stddev	.00262	.00184	.00379	.000
%RSD	73.133	.58494	.38541	.0303
#1	-.00543	.31241	.98003	1.046
#2	-.00173	.31501	.98539	1.045
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5091.4**	**7098.5**	**30821.**	**86938.**
Stddev	4.5	1.8	147.	202.
%RSD	.08756	.02601	.47674	.23268
#1	5088.3	7097.2	30925.	86795.
#2	5094.6	7099.8	30717.	87081.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.645%	100.47%	105.00%	97.505%
Range				

Sample Name: 480-213025-A-11-B Acquired: 10/10/2023 4:38:24 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00272**	**207.38**	**.07450**	**.21981**	**1.4864**
Stddev	.00134	2.01	.00040	.00201	.0119
%RSD	49.317	.97043	.54243	.91665	.80340
#1	-.00366	205.96	.07421	.22124	1.4780
#2	-.00177	208.81	.07479	.21839	1.4949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**164.37**	**.00723**	**.4744**	**.10519**
Stddev	.00022	2.48	.00028	.0165	.00080
%RSD	2.4514	1.5103	3.9017	3.481	.76367
#1	.00894	162.61	.00743	.4627	.10576
#2	.00925	166.12	.00703	.4861	.10462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22943**	**.21201**	**229.21**	**55.700**	**.24163**
Stddev	.00210	.00256	2.27	.200	.00102
%RSD	.91515	1.2077	.98986	.35904	.42238
#1	.23091	.21382	227.60	55.559	.24236
#2	.22794	.21020	230.81	55.842	.24091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-11-B Acquired: 10/10/2023 4:38:24 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**80.252**	**3.7394**	**.00272**	**3.8941**	**.27265**
Stddev	.885	.0165	.00005	.0285	.00275
%RSD	1.1033	.44065	1.8993	.73075	1.0080
#1	80.878	3.7511	.00275	3.8740	.27459
#2	79.626	3.7278	.00268	3.9142	.27071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.37**	**.21799**	**12.520**	F **-.02376**	**.00088**
Stddev	.02	.00150	.061	.00003	.00173
%RSD	.0564	.68967	.48902	.12602	195.95
#1	27.39	.21693	12.564	-.02374	.00210
#2	27.36	.21906	12.477	-.02378	-.00034
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				9.0000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7264**	**.04992**	**.70464**	**1.122**	**2.8920**
Stddev	.0269	.00091	.00269	.005	.0204
%RSD	.46926	1.8308	.38190	.4760	.70401
#1	5.7454	.05057	.70274	1.118	2.9064
#2	5.7074	.04928	.70654	1.126	2.8776
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-11-B Acquired: 10/10/2023 4:38:24 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.35567**	**.71945**	**1.056**
Stddev	.00114	.00328	.00520	.001
%RSD	706.51	.92135	.72277	.0483
#1	-.00097	.35798	.72313	1.056
#2	.00065	.35335	.71577	1.056
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4908.0**	**7514.3**	**32704.**	**92906.**
Stddev	18.9	34.9	225.	82.
%RSD	.38438	.46439	.68706	.08845
#1	4921.3	7538.9	32545.	92964.
#2	4894.6	7489.6	32863.	92848.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.451%	106.35%	111.42%	104.20%
Range				

Sample Name: CCV-7538313 Acquired: 10/10/2023 4:42:03 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0361**	F **55.148**	**1.0763**	**1.0660**	**1.0842**
Stddev	.0008	.106	.0016	.0020	.0003
%RSD	.08179	.19227	.14657	.18761	.02263
#1	1.0355	55.073	1.0774	1.0674	1.0840
#2	1.0367	55.223	1.0752	1.0646	1.0843
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		50.000			
Range		10.000%			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0894**	**53.633**	F **1.1033**	**1.078**	**1.0851**
Stddev	.0019	.175	.0001	.005	.0011
%RSD	.17109	.32606	.01075	.4637	.09849
#1	1.0907	53.757	1.1033	1.082	1.0844
#2	1.0881	53.510	1.1032	1.075	1.0859
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
Value			1.0000		
Range			10.000%		

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0623**	**1.0478**	**54.044**	**53.806**	**1.0454**
Stddev	.0039	.0034	.251	.201	.0011
%RSD	.36970	.32042	.46477	.37394	.10678
#1	1.0595	1.0454	54.221	53.948	1.0446
#2	1.0651	1.0502	53.866	53.664	1.0462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 4:42:03 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.506**	**1.0686**	**1.0635**	**53.010**	**1.0859**
Stddev	.066	.0021	.0056	.023	.0001
%RSD	.12067	.19309	.52700	.04330	.00925
#1	54.459	1.0671	1.0675	53.026	1.0858
#2	54.552	1.0700	1.0596	52.994	1.0859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.36**	**1.0872**	**25.997**	**1.0770**	**1.0578**
Stddev	.00	.0009	.070	.0008	.0002
%RSD	.0110	.08433	.27053	.07327	.01844
#1	38.36	1.0866	26.047	1.0765	1.0577
#2	38.36	1.0879	25.947	1.0776	1.0580
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **11.187**	**1.0717**	**1.0903**	**1.550**	**1.0666**
Stddev	.081	.0017	.0002	.002	.0006
%RSD	.72697	.15693	.01878	.0936	.05336
#1	11.130	1.0729	1.0901	1.551	1.0662
#2	11.245	1.0705	1.0904	1.549	1.0670
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
Value	10.000				
Range	10.000%				

Sample Name: CCV-7538313 Acquired: 10/10/2023 4:42:03 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0694**	**1.0672**	**1.0822**	**1.537**
Stddev	.0038	.0011	.0022	.000
%RSD	.35140	.10636	.20207	.0147
#1	1.0720	1.0664	1.0807	1.537
#2	1.0667	1.0680	1.0838	1.537
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5083.6**	**6603.2**	**28232.**	**79755.**
Stddev	10.8	20.7	91.	516.
%RSD	.21220	.31381	.32140	.64736
#1	5076.0	6588.6	28296.	79390.
#2	5091.2	6617.9	28167.	80120.

Sample Name: CCB-7506043 Acquired: 10/10/2023 4:45:16 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**-.04583**	**.00099**	**.00158**	**-.00025**
Stddev	.00072	.00093	.00243	.00022	.00000
%RSD	67.508	2.0229	245.01	13.765	.76350
#1	-.00056	-.04648	-.00073	.00143	-.00025
#2	-.00157	-.04517	.00271	.00173	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.01531**	**-.00001**	**-.0074**	**-.00038**
Stddev	.00007	.00451	.00068	.0028	.00012
%RSD	60.468	29.433	5871.9	37.90	31.856
#1	-.00006	-.01213	.00047	-.0054	-.00030
#2	-.00016	-.01850	-.00049	-.0094	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00061**	**-.00699**	**.11332**	**-.00151**
Stddev	.00034	.00092	.00769	.00336	.00005
%RSD	350.23	151.28	110.04	2.9614	3.5245
#1	.00034	.00126	-.00155	.11569	-.00155
#2	-.00014	-.00004	-.01243	.11095	-.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 4:45:16 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01254**	**-.00017**	**.00143**	**.36409**	**-.00051**
Stddev	.00290	.00001	.00005	.00147	.00031
%RSD	23.099	8.5177	3.1630	.40260	60.560
#1	-.01049	-.00016	.00140	.36305	-.00073
#2	-.01459	-.00018	.00146	.36512	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00071**	**.06420**	**.00270**	**-.00057**
Stddev	.00	.00061	.00289	.00262	.00031
%RSD	.0023	85.411	4.5049	96.950	53.532
#1	25.00	-.00028	.06624	.00085	-.00035
#2	25.00	-.00114	.06215	.00455	-.00079
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01211**	**.00099**	**-.00016**	**1.006**	**.00022**
Stddev	.00369	.00014	.00001	.005	.00016
%RSD	30.452	13.662	5.4927	.4785	71.978
#1	-.00950	.00108	-.00016	1.010	.00011
#2	-.01471	.00089	-.00017	1.003	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 4:45:16 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00100**	**-.00091**	**-.00040**	**1.000**
Stddev	.00011	.00040	.00000	.000
%RSD	11.167	43.740	.61749	.0171
#1	-.00092	-.00119	-.00040	1.000
#2	-.00107	-.00063	-.00039	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5709.8**	**7110.1**	**30661.**	**87389.**
Stddev	.4	1.6	37.	295.
%RSD	.00636	.02206	.11997	.33774
#1	5710.1	7111.2	30687.	87180.
#2	5709.6	7109.0	30635.	87597.

Sample Name: CCVL-7610998 Acquired: 10/10/2023 4:48:40 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**.17228**	**.01400**	**.02053**	**.00194**
Stddev	.00117	.03216	.00070	.00025	.00001
%RSD	21.196	18.669	5.0166	1.2033	.32254
#1	.00636	.14954	.01450	.02071	.00194
#2	.00470	.19502	.01350	.02036	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00174**	**.48594**	**.00172**	**-.0198**	**.00368**
Stddev	.00004	.01601	.00028	.0029	.00029
%RSD	2.3513	3.2956	16.411	14.71	7.9125
#1	.00177	.47462	.00192	-.0178	.00389
#2	.00171	.49727	.00152	-.0219	.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.00982**	**.03811**	**.58122**	**.02857**
Stddev	.00079	.00034	.00978	.01814	.00250
%RSD	17.969	3.5144	25.672	3.1210	8.7396
#1	.00386	.00957	.03119	.56840	.03034
#2	.00498	.01006	.04503	.59405	.02680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/10/2023 4:48:40 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19562**	**.00311**	**.00967**	W **1.3678**	**.01013**
Stddev	.00009	.00001	.00020	.0190	.00014
%RSD	.04613	.28165	2.0332	1.3896	1.3777
#1	.19569	.00310	.00954	1.3543	.01003
#2	.19556	.00311	.00981	1.3812	.01023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				1.0000	
Range				30.000%	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00859**	W **.26299**	**.02203**	**.02490**
Stddev	.00	.00059	.00260	.00193	.00294
%RSD	.0026	6.8675	.98851	8.7810	11.823
#1	25.00	.00817	.26483	.02066	.02282
#2	25.00	.00900	.26115	.02339	.02698
Check ?	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value	.0060		.20000		
Range	50.00%		30.000%		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49241**	**.01021**	**.00468**	F **.9978**	**.00461**
Stddev	.02036	.00007	.00021	.0044	.00043
%RSD	4.1356	.72362	4.5263	.4410	9.3844
#1	.47801	.01016	.00453	1.001	.00430
#2	.50681	.01026	.00483	.9947	.00491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/10/2023 4:48:40 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02055**	**.00460**	**.00994**	F **1.001**
Stddev	.00144	.00028	.00003	.000
%RSD	7.0109	6.1731	.28074	.0005
#1	.01953	.00440	.00996	1.001
#2	.02156	.00480	.00992	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5445.9**	**6823.7**	**29763.**	**85410.**
Stddev	5.3	9.9	251.	54.
%RSD	.09774	.14437	.84327	.06305
#1	5442.2	6816.7	29940.	85448.
#2	5449.7	6830.6	29586.	85372.

Sample Name: 213025-A-11-BSD@5 Acquired: 10/10/2023 4:52:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**44.651**	**.01816**	**.05027**	**.33224**
Stddev	.00038	.572	.00182	.00014	.00152
%RSD	39.653	1.2813	10.041	.27386	.45780
#1	-.00069	44.247	.01687	.05018	.33332
#2	-.00122	45.056	.01945	.05037	.33117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00179**	**37.048**	**.00135**	**.1300**	**.02031**
Stddev	.00009	.362	.00053	.0385	.00030
%RSD	4.8501	.97666	38.883	29.64	1.4972
#1	.00173	36.792	.00098	.1028	.02009
#2	.00185	37.304	.00173	.1573	.02052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05244**	**.04608**	**50.397**	**12.125**	**.05107**
Stddev	.00126	.00093	.694	.109	.00034
%RSD	2.4015	2.0093	1.3778	.90067	.67413
#1	.05155	.04542	49.906	12.048	.05131
#2	.05333	.04673	50.888	12.203	.05082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 213025-A-11-BSD@5 Acquired: 10/10/2023 4:52:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.375**	**.86920**	**-.00004**	**1.1297**	**.05417**
Stddev	.219	.00945	.00009	.0126	.00056
%RSD	1.1939	1.0874	196.51	1.1117	1.0418
#1	18.220	.86251	-.00010	1.1208	.05457
#2	18.530	.87588	.00002	1.1386	.05377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.54**	**.04460**	**2.9483**	**-.00367**	**-.00132**
Stddev	.00	.00014	.0086	.00068	.00062
%RSD	.0104	.30399	.29022	18.432	46.954
#1	25.54	.04469	2.9422	-.00320	-.00175
#2	25.53	.04450	2.9543	-.00415	-.00088
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2765**	**.00970**	**.15284**	**1.031**	**.65253**
Stddev	.0084	.00012	.00209	.005	.00741
%RSD	.65797	1.2292	1.3673	.4528	1.1362
#1	1.2706	.00978	.15137	1.034	.64729
#2	1.2825	.00961	.15432	1.028	.65778
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 213025-A-11-BSD@5 Acquired: 10/10/2023 4:52:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.07876**	**.16667**	**1.010**
Stddev	.00057	.00207	.00184	.001
%RSD	59.579	2.6312	1.1036	.1218
#1	-.00055	.07729	.16537	1.009
#2	-.00135	.08022	.16797	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5319.8**	**6933.1**	**30106.**	**85584.**
Stddev	1.3	3.1	97.	41.
%RSD	.02458	.04409	.32232	.04802
#1	5320.7	6935.2	30175.	85555.
#2	5318.9	6930.9	30038.	85613.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.622%	98.123%	102.57%	95.987%
Range				

Sample Name: 480-213025-A-11-BPDS Acquired: 10/10/2023 4:55:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08557**	**217.57**	**.44518**	**.57094**	**1.8084**
Stddev	.00117	1.60	.00072	.00397	.0168
%RSD	1.3649	.73322	.16280	.69574	.93031
#1	.08639	216.44	.44466	.57374	1.7965
#2	.08474	218.70	.44569	.56813	1.8203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40250**	**177.99**	**.38902**	**.4404**	**.54366**
Stddev	.00295	1.38	.00214	.0762	.00346
%RSD	.73178	.77307	.55102	17.30	.63602
#1	.40042	178.96	.39053	.3866	.54611
#2	.40458	177.01	.38750	.4943	.54122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.58111**	**.56875**	**238.21**	**72.481**	**.60176**
Stddev	.00579	.00662	2.99	.404	.00992
%RSD	.99686	1.1642	1.2573	.55716	1.6479
#1	.58521	.57343	236.09	72.195	.59475
#2	.57701	.56407	240.33	72.766	.60877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-11-BPDS Acquired: 10/10/2023 4:55:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**93.752**	**3.8966**	**.36872**	**22.304**	**.68638**
Stddev	1.346	.0176	.00399	.093	.00426
%RSD	1.4353	.45063	1.0812	.41882	.62135
#1	94.703	3.8842	.37154	22.238	.68939
#2	92.800	3.9090	.36590	22.370	.68336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.26**	**.64557**	**29.483**	**.38721**	**.35923**
Stddev	.02	.00206	.122	.00215	.00014
%RSD	.0677	.31892	.41330	.55508	.03946
#1	27.27	.64702	29.570	.38873	.35933
#2	27.25	.64411	29.397	.38569	.35913
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.196**	**.47003**	**1.0630**	**1.125**	**3.1816**
Stddev	.062	.00468	.0080	.008	.0273
%RSD	.23660	.99593	.75368	.6914	.85848
#1	26.152	.47334	1.0574	1.120	3.2009
#2	26.240	.46672	1.0687	1.131	3.1623
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-11-BPDS Acquired: 10/10/2023 4:55:20 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.42679**	**.70363**	**1.0278**	**1.056**
Stddev	.00390	.00817	.0103	.000
%RSD	.91437	1.1606	1.0045	.0280
#1	.42955	.70941	1.0351	1.056
#2	.42403	.69786	1.0205	1.056
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4862.2**	**7435.9**	**32140.**	**91459.**
Stddev	10.3	9.1	283.	66.
%RSD	.21181	.12259	.88070	.07244
#1	4869.5	7442.3	31940.	91413.
#2	4854.9	7429.5	32341.	91506.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.654%	105.24%	109.50%	102.58%
Range				

Sample Name: 480-213025-A-11-C MS Acquired: 10/10/2023 4:58:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08162**	**253.61**	**.40814**	**.68773**	**1.5177**
Stddev	.00084	.99	.00094	.00051	.0049
%RSD	1.0273	.39204	.22921	.07409	.31986
#1	.08103	252.90	.40880	.68737	1.5143
#2	.08221	254.31	.40748	.68809	1.5212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38752**	**275.35**	**.37069**	**.5382**	**.52864**
Stddev	.00157	.85	.00089	.0023	.00261
%RSD	.40634	.30761	.24036	.4261	.49404
#1	.38641	274.75	.37006	.5398	.53049
#2	.38863	275.95	.37132	.5366	.52680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57682**	**.53163**	**216.63**	**96.859**	**.60258**
Stddev	.00587	.00198	.70	.236	.00272
%RSD	1.0169	.37247	.32232	.24371	.45087
#1	.57268	.53023	216.14	97.026	.60450
#2	.58097	.53303	217.12	96.692	.60066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-11-C MS Acquired: 10/10/2023 4:58:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**143.51**	**4.6843**	**.34012**	**23.059**	**.64809**
Stddev	.51	.0277	.00130	.138	.00303
%RSD	.35660	.59203	.38318	.59800	.46701
#1	143.15	4.6646	.34104	22.961	.65023
#2	143.88	4.7039	.33920	23.156	.64595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.70**	**.69138**	**23.929**	**.18169**	**.33248**
Stddev	.00	.00371	.022	.00096	.00324
%RSD	.0036	.53615	.09298	.52586	.97300
#1	27.70	.69401	23.913	.18236	.33020
#2	27.70	.68876	23.945	.18101	.33477
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.669**	**.46033**	**1.0194**	**1.116**	**4.5623**
Stddev	.199	.00208	.0003	.004	.0266
%RSD	.80705	.45219	.02959	.3940	.58289
#1	24.809	.46180	1.0191	1.113	4.5435
#2	24.528	.45886	1.0196	1.119	4.5812
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-11-C MS Acquired: 10/10/2023 4:58:57 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.41173**	**.73834**	**.97590**	**1.102**
Stddev	.00584	.00656	.00809	.002
%RSD	1.4175	.88855	.82890	.1473
#1	.41586	.73370	.97018	1.101
#2	.40760	.74298	.98162	1.104
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4715.7**	**7530.8**	**32651.**	**92322.**
Stddev	19.4	50.5	193.	128.
%RSD	.41122	.67057	.59224	.13889
#1	4729.5	7566.6	32787.	92231.
#2	4702.0	7495.1	32514.	92413.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.105%	106.58%	111.24%	103.54%
Range				

Sample Name: 480-213025-A-11-D MS Acquired: 10/10/2023 5:02:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08313**	**290.95**	**.40616**	**.71932**	**2.1177**
Stddev	.00062	.98	.00056	.00075	.0090
%RSD	.74212	.33781	.13665	.10455	.42573
#1	.08269	290.26	.40655	.71985	2.1241
#2	.08357	291.65	.40577	.71878	2.1114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37878**	**327.53**	**.36313**	**.5014**	**.53275**
Stddev	.00008	3.71	.00125	.0392	.00352
%RSD	.02192	1.1340	.34299	7.810	.66022
#1	.37884	324.91	.36401	.5291	.53524
#2	.37872	330.16	.36225	.4737	.53027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.60675**	**.56617**	**229.16**	**105.66**	**.62875**
Stddev	.01288	.00875	.51	.52	.00522
%RSD	2.1235	1.5462	.22093	.49153	.82986
#1	.59764	.55998	229.52	105.30	.62506
#2	.61586	.57236	228.80	106.03	.63244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-11-D MS Acquired: 10/10/2023 5:02:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**167.99**	**4.8178**	**.33515**	**23.555**	**.68644**
Stddev	1.68	.0526	.00265	.951	.00352
%RSD	1.0018	1.0922	.79096	4.0356	.51335
#1	166.80	4.7806	.33702	24.227	.68893
#2	169.18	4.8550	.33327	22.883	.68395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.92**	**.68970**	**30.226**	**.16490**	**.33253**
Stddev	.01	.00462	.028	.00108	.00249
%RSD	.0227	.66919	.09198	.65502	.74921
#1	27.92	.69296	30.246	.16414	.33076
#2	27.91	.68643	30.207	.16567	.33429
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.921**	**.45828**	**1.1384**	**1.121**	**5.3884**
Stddev	.176	.00391	.0001	.004	.0922
%RSD	.88237	.85398	.00885	.3458	1.7114
#1	20.045	.46105	1.1383	1.124	5.3231
#2	19.796	.45552	1.1385	1.119	5.4536
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213025-A-11-D MS Acquired: 10/10/2023 5:02:33 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.40205**	**.79056**	**1.0478**	**1.104**
Stddev	.00040	.01249	.0136	.001
%RSD	.10066	1.5802	1.3009	.0467
#1	.40177	.78172	1.0381	1.105
#2	.40234	.79939	1.0574	1.104
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4690.8**	**7495.5**	**31968.**	**93181.**
Stddev	2.0	14.9	578.	81.
%RSD	.04361	.19829	1.8070	.08650
#1	4689.3	7506.0	32376.	93124.
#2	4692.2	7485.0	31559.	93238.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.670%	106.08%	108.91%	104.51%
Range				

Sample Name: 480-213029-D-1-B Acquired: 10/10/2023 5:06:11 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**62.078**	**.05630**	**.14241**	**.33008**
Stddev	.00022	.594	.00152	.00056	.00110
%RSD	20.120	.95734	2.6936	.39656	.33212
#1	-.00126	61.658	.05522	.14281	.33086
#2	-.00095	62.498	.05737	.14201	.32931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00261**	**571.99**	**.00474**	**.2996**	**.04207**
Stddev	.00006	6.06	.00018	.0114	.00009
%RSD	2.4163	1.0601	3.8759	3.811	.22218
#1	.00265	567.70	.00487	.2915	.04214
#2	.00257	576.28	.00461	.3076	.04201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08838**	**.24018**	**106.76**	**22.291**	**.13648**
Stddev	.00014	.00205	1.58	.215	.00270
%RSD	.15322	.85430	1.4836	.96307	1.9765
#1	.08848	.24163	105.64	22.139	.13457
#2	.08829	.23873	107.88	22.442	.13838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213029-D-1-B Acquired: 10/10/2023 5:06:11 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**214.89**	**3.5819**	**.04152**	**7.1244**	**.09923**
Stddev	1.73	.0077	.00008	.0974	.00092
%RSD	.80665	.21612	.18426	1.3664	.92482
#1	216.11	3.5874	.04146	7.0555	.09987
#2	213.66	3.5764	.04157	7.1932	.09858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.69**	**.16136**	**15.729**	**-.00995**	**-.00326**
Stddev	.01	.00200	.005	.00064	.00203
%RSD	.0375	1.2385	.02869	6.3829	62.038
#1	26.70	.16278	15.725	-.00950	-.00470
#2	26.69	.15995	15.732	-.01040	-.00183
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.404**	**.05453**	**.64614**	**1.059**	**1.3269**
Stddev	.075	.00145	.00629	.002	.0071
%RSD	.65710	2.6577	.97341	.2188	.53629
#1	11.351	.05555	.64170	1.057	1.3319
#2	11.457	.05350	.65059	1.060	1.3218
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213029-D-1-B Acquired: 10/10/2023 5:06:11 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00261**	**.11697**	**.59192**	**1.027**
Stddev	.00176	.00095	.00258	.000
%RSD	67.177	.81549	.43633	.0032
#1	-.00385	.11765	.59375	1.027
#2	-.00137	.11630	.59009	1.027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4699.8**	**6830.1**	**29971.**	**85210.**
Stddev	8.0	11.2	131.	279.
%RSD	.16931	.16464	.43737	.32708
#1	4694.2	6822.1	29878.	85408.
#2	4705.5	6838.0	30063.	85013.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.828%	96.665%	102.11%	95.568%
Range				

Sample Name: 480-213029-E-2-B Acquired: 10/10/2023 5:09:46 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00186**	**71.121**	**.04184**	**.20431**	**.31219**
Stddev	.00047	.652	.00056	.00051	.00093
%RSD	25.202	.91710	1.3480	.25107	.29800
#1	-.00220	71.582	.04144	.20395	.31285
#2	-.00153	70.659	.04224	.20467	.31154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00307**	**774.48**	**.00371**	**.2328**	**.03595**
Stddev	.00006	2.02	.00078	.0151	.00053
%RSD	2.0107	.26118	21.056	6.475	1.4608
#1	.00303	775.91	.00426	.2221	.03632
#2	.00311	773.05	.00316	.2435	.03558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09337**	**.28611**	**105.78**	**28.749**	**.17103**
Stddev	.00050	.00026	.48	.206	.00049
%RSD	.53648	.09226	.45265	.71507	.28774
#1	.09372	.28629	106.12	28.895	.17138
#2	.09301	.28592	105.44	28.604	.17069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213029-E-2-B Acquired: 10/10/2023 5:09:46 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**362.87**	**3.6524**	**.02455**	**3.5403**	**.12822**
Stddev	3.57	.0216	.00027	.0426	.00008
%RSD	.98494	.59217	1.1154	1.2045	.06063
#1	365.40	3.6677	.02474	3.5705	.12816
#2	360.35	3.6371	.02435	3.5102	.12827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.43**	**.13313**	**14.964**	**-.00773**	**-.00865**
Stddev	.00	.00159	.052	.00006	.00777
%RSD	.0161	1.1924	.34961	.82858	89.848
#1	26.44	.13425	15.001	-.00768	-.00316
#2	26.43	.13200	14.927	-.00778	-.01415
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8586**	**.05666**	**.77045**	**1.052**	**1.1522**
Stddev	.1628	.00137	.00664	.008	.0034
%RSD	1.6513	2.4183	.86138	.7876	.29435
#1	9.9737	.05762	.77514	1.057	1.1546
#2	9.7435	.05569	.76576	1.046	1.1498
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213029-E-2-B Acquired: 10/10/2023 5:09:46 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00022**	**.13161**	**.61603**	**1.028**
Stddev	.00087	.00101	.00161	.001
%RSD	393.51	.76613	.26081	.1101
#1	.00084	.13232	.61717	1.029
#2	-.00040	.13090	.61489	1.027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4550.8**	**6624.4**	**28882.**	**82525.**
Stddev	3.5	9.1	155.	658.
%RSD	.07654	.13792	.53522	.79768
#1	4548.3	6630.8	28773.	82059.
#2	4553.3	6617.9	28991.	82990.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.233%	93.754%	98.398%	92.556%
Range				

Sample Name: rinse Acquired: 10/10/2023 5:13:16 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.15680**	**.00049**	**-.00004**	**-.00027**
Stddev	.00030	.01762	.00124	.00033	.00002
%RSD	214.18	11.237	255.47	853.55	7.3915
#1	.00007	.14434	.00136	.00019	-.00025
#2	-.00036	.16926	-.00039	-.00027	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01222**	**-.00058**	**-.0124**	**-.00050**
Stddev	.00011	.01418	.00024	.0301	.00004
%RSD	49.133	116.00	41.500	242.3	7.6339
#1	-.00031	.02225	-.00041	.0088	-.00053
#2	-.00015	.00220	-.00075	-.0337	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00045**	**.00028**	**.07638**	**-.00320**
Stddev	.00028	.00067	.00811	.01259	.00054
%RSD	70.669	149.67	2882.5	16.481	16.840
#1	-.00020	.00092	.00602	.06748	-.00358
#2	-.00059	-.00003	-.00546	.08529	-.00282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 5:13:16 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00542**	**-.00025**	**-.00057**	**.18560**	**-.00056**
Stddev	.00347	.00003	.00005	.00295	.00009
%RSD	63.907	14.056	9.4575	1.5869	15.747
#1	-.00297	-.00027	-.00053	.18768	-.00062
#2	-.00788	-.00022	-.00061	.18352	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00008**	**.03077**	**.00386**	**.00028**
Stddev	.00	.00091	.00236	.00287	.00072
%RSD	.0017	1099.6	7.6774	74.313	258.00
#1	25.00	-.00056	.03245	.00183	.00079
#2	25.00	.00073	.02910	.00588	-.00023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00866**	**-.00013**	**-.00017**	**1.004**	**.00018**
Stddev	.00573	.00035	.00008	.007	.00006
%RSD	66.160	275.20	46.036	.7502	34.876
#1	.00461	.00012	-.00012	.9989	.00022
#2	.01271	-.00037	-.00023	1.010	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 5:13:16 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00040**	**.01796**	**1.001**
Stddev	.00205	.00006	.00035	.000
%RSD	2199.2	13.950	1.9466	.0290
#1	-.00154	-.00036	.01821	1.000
#2	.00135	-.00044	.01771	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5764.5**	**7143.1**	**30081.**	**87923.**
Stddev	1.2	10.6	231.	190.
%RSD	.02161	.14795	.76855	.21563
#1	5765.4	7135.6	29918.	87789.
#2	5763.6	7150.5	30245.	88057.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.36%	101.10%	102.48%	98.610%
Range				

Sample Name: rinse Acquired: 10/10/2023 5:16:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.17052**	**.00010**	**.00065**	**-.00026**
Stddev	.00064	.03285	.00111	.00021	.00004
%RSD	133.49	19.265	1114.1	31.780	13.878
#1	-.00093	.14729	.00089	.00080	-.00029
#2	-.00003	.19375	-.00069	.00051	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**-.01330**	**.00024**	**-.0068**	**-.00062**
Stddev	.00006	.00073	.00062	.0398	.00011
%RSD	20.244	5.4878	259.25	584.0	17.449
#1	-.00027	-.01279	.00068	-.0350	-.00070
#2	-.00037	-.01382	-.00020	.0214	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00081**	**-.00935**	**.03184**	**-.00317**
Stddev	.00017	.00022	.00190	.01226	.00071
%RSD	82.785	27.010	20.279	38.502	22.285
#1	.00032	-.00096	-.00801	.04051	-.00367
#2	.00008	-.00065	-.01070	.02317	-.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 5:16:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00632**	**.00032**	**-.00046**	**.20585**	**-.00008**
Stddev	.00019	.00006	.00008	.00219	.00032
%RSD	3.0192	18.930	17.781	1.0660	408.82
#1	-.00646	.00028	-.00052	.20430	.00015
#2	-.00619	.00037	-.00040	.20740	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00133**	**.03837**	**.00009**	**-.00140**
Stddev	.00	.00066	.00014	.00202	.00073
%RSD	.0007	49.854	.35614	2243.6	51.875
#1	25.00	-.00180	.03847	-.00134	-.00191
#2	25.00	-.00086	.03827	.00152	-.00089
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00224**	**.00058**	**-.00022**	**1.006**	**-.00040**
Stddev	.01465	.00007	.00005	.003	.00024
%RSD	653.57	12.645	24.438	.2870	58.675
#1	-.00812	.00053	-.00018	1.008	-.00023
#2	.01260	.00063	-.00026	1.004	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 5:16:40 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00181**	**-.00042**	**.02336**	**1.000**
Stddev	.00026	.00026	.00102	.000
%RSD	14.210	61.032	4.3516	.0115
#1	-.00199	-.00024	.02264	1.001
#2	-.00163	-.00060	.02407	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5445.7**	**6778.1**	**29129.**	**84636.**
Stddev	1.5	.4	142.	1195.
%RSD	.02811	.00556	.48619	1.4116
#1	5444.7	6778.4	29229.	85480.
#2	5446.8	6777.8	29029.	83791.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.814%	95.930%	99.241%	94.923%
Range				

Sample Name: rinse Acquired: 10/10/2023 5:20:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.06404**	**.00045**	**.00024**	**-.00028**
Stddev	.00086	.03190	.00010	.00058	.00002
%RSD	76.970	49.809	21.822	240.03	6.0634
#1	-.00051	.08660	.00038	-.00017	-.00027
#2	-.00172	.04149	.00052	.00065	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.01228**	**-.00014**	**.0003**	**-.00051**
Stddev	.00014	.00072	.00037	.0029	.00005
%RSD	97.082	5.8385	257.97	919.2	9.7554
#1	-.00024	-.01278	.00012	-.0017	-.00047
#2	-.00005	-.01177	-.00040	.0023	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00081**	**-.01362**	**.03680**	**-.00508**
Stddev	.00033	.00020	.00377	.03772	.00077
%RSD	2140.2	24.941	27.703	102.50	15.076
#1	.00025	.00096	-.01095	.01013	-.00562
#2	-.00022	.00067	-.01629	.06347	-.00454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 5:20:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01358**	**-.00021**	**-.00077**	**.18668**	**-.00028**
Stddev	.00086	.00002	.00000	.01519	.00009
%RSD	6.3517	8.9872	.63591	8.1391	32.668
#1	-.01419	-.00019	-.00078	.19743	-.00022
#2	-.01297	-.00022	-.00077	.17594	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00063**	**.02964**	**.00223**	**-.00362**
Stddev	.00	.00226	.00277	.00070	.00419
%RSD	.0001	356.80	9.3518	31.346	115.91
#1	25.00	.00097	.03160	.00174	-.00065
#2	25.00	-.00224	.02768	.00273	-.00658
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00029**	**-.00022**	**.9996**	**-.00020**
Stddev	.02003	.00078	.00005	.0003	.00039
%RSD	7301.8	270.61	20.188	.0280	200.02
#1	-.01389	.00084	-.00019	.9994	-.00047
#2	.01444	-.00026	-.00026	.9998	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/10/2023 5:20:02 Type: Unk
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00113**	**-.00047**	**.00645**	**1.001**
Stddev	.00047	.00023	.00001	.001
%RSD	41.154	49.080	.18812	.0728
#1	-.00146	-.00031	.00644	1.001
#2	-.00080	-.00063	.00646	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5459.4**	**6781.4**	**29192.**	**84466.**
Stddev	5.1	12.2	37.	43.
%RSD	.09275	.18018	.12836	.05105
#1	5463.0	6790.1	29218.	84496.
#2	5455.9	6772.8	29165.	84435.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.053%	95.977%	99.453%	94.733%
Range				

Sample Name: CCV-7538313 Acquired: 10/10/2023 5:23:28 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0526**	**54.604**	**1.0701**	**1.0689**	**1.0867**
Stddev	.0121	.372	.0027	.0000	.0029
%RSD	1.1538	.68188	.24984	.00176	.27106
#1	1.0612	54.341	1.0720	1.0689	1.0846
#2	1.0440	54.868	1.0682	1.0689	1.0888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0866**	**53.659**	**1.0762**	**1.109**	**1.0808**
Stddev	.0032	.047	.0076	.030	.0052
%RSD	.28947	.08675	.70360	2.735	.48372
#1	1.0843	53.626	1.0816	1.130	1.0845
#2	1.0888	53.691	1.0709	1.087	1.0771
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0803**	**1.0627**	**54.212**	**53.335**	**1.0342**
Stddev	.0131	.0094	.024	.016	.0062
%RSD	1.2134	.88290	.04365	.02957	.59788
#1	1.0895	1.0693	54.195	53.324	1.0386
#2	1.0710	1.0561	54.229	53.346	1.0299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 5:23:28 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.858**	**1.0810**	**1.0690**	**53.235**	**1.0813**
Stddev	.394	.0111	.0032	.132	.0044
%RSD	.71883	1.0247	.30326	.24786	.40509
#1	55.137	1.0888	1.0713	53.142	1.0844
#2	54.580	1.0731	1.0667	53.329	1.0782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.34**	**1.0827**	**26.325**	**1.0697**	**1.0628**
Stddev	.02	.0046	.012	.0043	.0049
%RSD	.0642	.42557	.04523	.40072	.45647
#1	38.35	1.0860	26.333	1.0728	1.0662
#2	38.32	1.0795	26.317	1.0667	1.0594
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **11.132**	**1.0713**	**1.0837**	**1.539**	**1.0789**
Stddev	.092	.0049	.0014	.005	.0111
%RSD	.82327	.46090	.12758	.3071	1.0263
#1	11.067	1.0748	1.0827	1.535	1.0867
#2	11.197	1.0678	1.0847	1.542	1.0710
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
Value	10.000				
Range	10.000%				

Sample Name: CCV-7538313 Acquired: 10/10/2023 5:23:28 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0692**	**1.0807**	**1.0903**	**1.536**
Stddev	.0007	.0133	.0066	.001
%RSD	.06236	1.2277	.60776	.0331
#1	1.0697	1.0901	1.0950	1.536
#2	1.0687	1.0713	1.0857	1.537
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5090.5**	**6587.6**	**28037.**	**80522.**
Stddev	16.6	10.7	307.	744.
%RSD	.32664	.16176	1.0946	.92419
#1	5078.8	6580.0	27820.	79996.
#2	5102.3	6595.1	28254.	81049.

Sample Name: CCB-7506043 Acquired: 10/10/2023 5:26:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.02061**	**.00137**	**.00086**	**-.00016**
Stddev	.00083	.01982	.00172	.00044	.00004
%RSD	124.67	96.157	126.25	51.189	26.641
#1	-.00126	-.00660	.00259	.00117	-.00019
#2	-.00008	-.03462	.00015	.00055	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01820**	**-.00051**	**-.0092**	**-.00029**
Stddev	.00007	.01163	.00097	.0031	.00013
%RSD	122.80	63.886	188.93	33.23	44.177
#1	-.00001	.02643	.00017	-.0071	-.00020
#2	-.00010	.00998	-.00119	-.0114	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00017**	**.00708**	**.08079**	**-.00042**
Stddev	.00003	.00008	.01034	.02318	.00114
%RSD	8.0462	43.912	145.97	28.692	269.75
#1	-.00030	.00023	.01439	.09718	-.00123
#2	-.00034	.00012	-.00023	.06440	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 5:26:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01192**	**.00006**	**.00137**	**.23715**	**-.00045**
Stddev	.00234	.00008	.00029	.02279	.00021
%RSD	19.659	137.20	21.193	9.6091	46.551
#1	.01357	.00000	.00116	.25327	-.00030
#2	.01026	.00012	.00157	.22104	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00059**	**.07801**	**.00233**	**.00205**
Stddev	.00	.00062	.00108	.00071	.00005
%RSD	.0012	105.25	1.3811	30.705	2.2682
#1	25.00	.00103	.07725	.00283	.00202
#2	25.00	.00015	.07877	.00182	.00208
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00266**	**.00051**	**.00019**	**1.005**	**.00022**
Stddev	.00089	.00011	.00016	.005	.00022
%RSD	33.488	21.707	82.982	.4588	101.18
#1	-.00203	.00058	.00030	1.008	.00006
#2	-.00329	.00043	.00008	1.001	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 5:26:41 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00046**	**-.00039**	**1.0000**
Stddev	.00092	.00004	.00006	.0006
%RSD	3264.5	7.9671	15.666	.0601
#1	-.00062	-.00044	-.00034	1.000
#2	.00068	-.00049	-.00043	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5702.9**	**7097.0**	**30503.**	**88538.**
Stddev	14.1	14.6	52.	42.
%RSD	.24686	.20511	.17190	.04708
#1	5693.0	7086.7	30466.	88567.
#2	5712.9	7107.3	30540.	88508.

Sample Name: CCVL-7610998 Acquired: 10/10/2023 5:30:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00626**	**.15920**	**.01493**	**.02028**	**.00205**
Stddev	.00021	.01465	.00003	.00006	.00017
%RSD	3.2889	9.2023	.16861	.29714	8.5523
#1	.00640	.14884	.01495	.02024	.00192
#2	.00611	.16956	.01491	.02032	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.50564**	**.00207**	**-.0131**	**.00370**
Stddev	.00010	.01692	.00038	.0275	.00025
%RSD	5.5664	3.3454	18.095	210.5	6.6693
#1	.00166	.49368	.00234	-.0325	.00353
#2	.00179	.51760	.00181	.0064	.00388
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	**.01013**	**.04377**	**.54589**	**.02890**
Stddev	.00027	.00192	.00538	.00335	.00238
%RSD	6.3795	18.919	12.298	.61290	8.2481
#1	.00403	.00877	.03997	.54353	.02721
#2	.00441	.01148	.04758	.54826	.03058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/10/2023 5:30:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23607**	**.00354**	**.00970**	**1.2543**	**.01023**
Stddev	.03476	.00049	.00050	.0375	.00018
%RSD	14.724	13.763	5.1220	2.9861	1.7894
#1	.21149	.00319	.00935	1.2279	.01036
#2	.26065	.00388	.01006	1.2808	.01010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01043**	W **.28418**	**.02167**	**.02459**
Stddev	.00	.00062	.00543	.00271	.00206
%RSD	.0021	5.9446	1.9104	12.490	8.3933
#1	25.00	.00999	.28802	.02359	.02605
#2	25.00	.01087	.28034	.01976	.02313
Check ?	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value	.0060		.20000		
Range	50.00%		30.000%		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48617**	**.00969**	**.00479**	F **1.009**	**.00529**
Stddev	.01208	.00027	.00043	.004	.00000
%RSD	2.4839	2.7964	9.0137	.3989	.08310
#1	.47763	.00950	.00448	1.012	.00529
#2	.49471	.00988	.00509	1.007	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7610998 Acquired: 10/10/2023 5:30:05 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02047**	**.00506**	**.01011**	F **1.0000**
Stddev	.00055	.00024	.00063	.0010
%RSD	2.6896	4.6522	6.2598	.1024
#1	.02086	.00489	.00966	1.001
#2	.02008	.00523	.01056	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5449.7**	**6810.5**	**29241.**	**85168.**
Stddev	3.8	5.6	176.	394.
%RSD	.06989	.08248	.60166	.46247
#1	5452.4	6814.5	29366.	85447.
#2	5447.0	6806.5	29117.	84890.

Sample Name: CCV-7538313 Acquired: 10/10/2023 5:33:27 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0418**	**54.093**	**1.0672**	**1.0692**	**1.0704**
Stddev	.0099	.280	.0048	.0011	.0023
%RSD	.94855	.51790	.45323	.10587	.21761
#1	1.0488	54.291	1.0706	1.0700	1.0721
#2	1.0348	53.895	1.0637	1.0684	1.0688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0744**	**53.138**	**1.0831**	**1.098**	**1.0800**
Stddev	.0078	.268	.0067	.000	.0038
%RSD	.72853	.50361	.61740	.0009	.35192
#1	1.0799	53.327	1.0878	1.098	1.0827
#2	1.0688	52.948	1.0784	1.098	1.0773
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0640**	**1.0577**	**53.470**	**53.105**	**1.0337**
Stddev	.0094	.0052	.409	.519	.0146
%RSD	.88669	.48892	.76421	.97664	1.4079
#1	1.0707	1.0614	53.758	53.471	1.0440
#2	1.0573	1.0541	53.181	52.738	1.0234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 5:33:27 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.517**	**1.0716**	**1.0675**	**52.708**	**1.0812**
Stddev	.329	.0066	.0038	.493	.0050
%RSD	.60366	.62085	.35785	.93524	.46682
#1	54.749	1.0763	1.0702	53.056	1.0848
#2	54.284	1.0669	1.0648	52.359	1.0777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.36**	**1.0828**	**26.165**	**1.0685**	**1.0652**
Stddev	.04	.0062	.004	.0054	.0019
%RSD	.0979	.57622	.01603	.50331	.17471
#1	38.38	1.0872	26.168	1.0723	1.0665
#2	38.33	1.0784	26.162	1.0647	1.0639
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.919**	**1.0700**	**1.0768**	**1.538**	**1.0684**
Stddev	.055	.0054	.0095	.013	.0062
%RSD	.49987	.50203	.88394	.8120	.58362
#1	10.957	1.0738	1.0835	1.547	1.0728
#2	10.880	1.0662	1.0701	1.529	1.0640
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/10/2023 5:33:27 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0628**	**1.0697**	**1.0867**	**1.531**
Stddev	.0036	.0083	.0055	.002
%RSD	.33554	.77997	.50141	.1060
#1	1.0654	1.0756	1.0905	1.532
#2	1.0603	1.0638	1.0828	1.530
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5098.9**	**6599.6**	**28280.**	**80980.**
Stddev	3.8	2.0	386.	1276.
%RSD	.07377	.02987	1.3645	1.5751
#1	5096.2	6601.0	28007.	80078.
#2	5101.6	6598.3	28553.	81882.

Sample Name: CCB-7506043 Acquired: 10/10/2023 5:36:40 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**-.00685**	**.00092**	**.00010**	**-.00018**
Stddev	.00063	.00797	.00058	.00024	.00004
%RSD	132.04	116.41	63.353	239.53	23.267
#1	-.00003	-.00121	.00051	-.00007	-.00015
#2	-.00092	-.01248	.00133	.00027	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00810**	**.00014**	**-.0416**	**-.00043**
Stddev	.00004	.00493	.00018	.0283	.00005
%RSD	32.456	60.848	132.65	67.91	11.887
#1	-.00016	.00462	.00027	-.0616	-.00047
#2	-.00010	.01159	.00001	-.0216	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00004**	**.00520**	**.08561**	**.00011**
Stddev	.00000	.00053	.00874	.03564	.00411
%RSD	.32356	1424.4	168.03	41.631	3653.0
#1	-.00022	.00034	.01138	.06041	-.00279
#2	-.00021	-.00041	-.00098	.11082	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 5:36:40 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00601**	**-.00003**	**.00136**	**.21107**	**-.00043**
Stddev	.00113	.00002	.00014	.01315	.00004
%RSD	18.734	70.275	10.310	6.2310	9.5741
#1	.00522	-.00001	.00126	.20177	-.00040
#2	.00681	-.00004	.00146	.22037	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00047**	**.10691**	**.00227**	**.00171**
Stddev	.00	.00036	.01070	.00112	.00159
%RSD	.0010	76.036	10.007	49.221	92.721
#1	25.00	-.00073	.11447	.00306	.00059
#2	25.00	-.00022	.09934	.00148	.00283
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00014**	**.00004**	**1.007**	**-.00001**
Stddev	.00525	.00040	.00000	.000	.00030
%RSD	3166.9	279.96	8.2029	.0086	5737.1
#1	.00388	.00014	.00004	1.007	.00021
#2	-.00355	-.00042	.00004	1.007	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/10/2023 5:36:40 Type: QC
Method: ICAP1 Updated OCT 2023(v7) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00062**	**-.00063**	**-.00029**	**1.001**
Stddev	.00058	.00008	.00007	.000
%RSD	92.851	12.919	23.116	.0226
#1	-.00021	-.00057	-.00024	1.000
#2	-.00103	-.00069	-.00034	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5698.2**	**7075.0**	**30162.**	**88077.**
Stddev	4.9	9.9	368.	336.
%RSD	.08553	.13985	1.2188	.38146
#1	5701.7	7082.0	29902.	87839.
#2	5694.8	7068.0	30422.	88314.

Run File: I2100823D

Instrument: ICAP2

Analyst: BB

Data Review: BB 10-10-23

Spikes Ids:7249750(W1), 7249743(W2),7150580(Sn), 7263500(Ag),7313115(Si), 7004677(TCLP), 7313123(S)
Pipette IDs: 1/16/23-(1-11)
Internal Standard:7289142

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2100823D	ICIS-7506043	10/8/2023 11:53:46AM	Standard
2	I2100823D	IC-7610998	10/8/2023 11:57:31AM	Standard
3	I2100823D	IC-7538313	10/8/2023 12:01:15PM	Standard
4	I2100823D	IC-7485776	10/8/2023 12:04:49PM	Standard
5	I2100823D	ICV-7538312	10/8/2023 12:08:22PM	QC
6	I2100823D	ICB-7506043	10/8/2023 12:11:57PM	QC
7	I2100823D	ICVL-7610998	10/8/2023 12:15:41PM	QC
8	I2100823D	ICSA-7420389	10/8/2023 12:19:24PM	QC
9	I2100823D	ICSAB-7538391	10/8/2023 12:23:12PM	QC
10	I2100823D	ICEX1	10/8/2023 12:26:58PM	Unknown
11	I2100823D	ICEX2	10/8/2023 12:30:51PM	Unknown
12	I2100823D	ICEX3	10/8/2023 12:34:39PM	Unknown
13	I2100823D	ICEX4	10/8/2023 12:38:31PM	Unknown
14	I2100823D	ICEX5	10/8/2023 12:42:11PM	Unknown
15	I2100823D	CCV-7538313	10/8/2023 12:45:53PM	QC
16	I2100823D	CCB-7506043	10/8/2023 12:49:27PM	QC
17	I2100823D	ICIS-7506043	10/8/2023 11:53:46AM	Standard
18	I2100823D	IC-7610998	10/8/2023 11:57:31AM	Standard
19	I2100823D	IC-7538313	10/8/2023 12:01:15PM	Standard
20	I2100823D	IC-7485776	10/8/2023 12:04:49PM	Standard
21	I2100823D	ICV-7538312	10/8/2023 12:08:22PM	QC
22	I2100823D	ICB-7506043	10/8/2023 12:11:57PM	QC
23	I2100823D	ICVL-7610998	10/8/2023 12:15:41PM	QC
24	I2100823D	ICSA-7420389	10/8/2023 12:19:24PM	QC
25	I2100823D	ICSAB-7538391	10/8/2023 12:23:12PM	QC
26	I2100823D	ICEX1	10/8/2023 12:26:58PM	Unknown
27	I2100823D	ICEX2	10/8/2023 12:30:51PM	Unknown
28	I2100823D	ICEX3	10/8/2023 12:34:39PM	Unknown
29	I2100823D	ICEX4	10/8/2023 12:38:31PM	Unknown
30	I2100823D	ICEX5	10/8/2023 12:42:11PM	Unknown
31	I2100823D	CCV-7538313	10/8/2023 12:45:53PM	QC
32	I2100823D	CCB-7506043	10/8/2023 12:49:27PM	QC
33	I2100823D	CCVL-7610998	10/8/2023 12:59:23PM	QC
34	I2100823D	MB 480-684734/1-A	10/8/2023 1:03:06PM	Unknown
35	I2100823D	LCS 480-684734/2-A	10/8/2023 1:06:48PM	Unknown
36	I2100823D	480-212997-E-1-A	10/8/2023 1:10:21PM	Unknown
37	I2100823D	480-212997-E-2-A	10/8/2023 1:14:07PM	Unknown
38	I2100823D	480-212997-E-3-A	10/8/2023 1:17:52PM	Unknown
39	I2100823D	480-212997-E-4-A	10/8/2023 1:21:42PM	Unknown
40	I2100823D	480-212997-E-4-Asd@5	10/8/2023 1:25:32PM	Unknown
41	I2100823D	480-212997-E-4-APDS	10/8/2023 1:29:12PM	Unknown
42	I2100823D	480-212997-E-4-B MS	10/8/2023 1:32:56PM	Unknown

43	I2100823D	CCV-7538313	10/8/2023	1:36:40PM	QC
44	I2100823D	CCB-7506043	10/8/2023	1:40:14PM	QC
45	I2100823D	CCVL-7610998	10/8/2023	1:43:58PM	QC
46	I2100823D	480-212997-E-4-C MSD	10/8/2023	1:47:40PM	Unknown
47	I2100823D	480-212997-E-5-A	10/8/2023	1:51:23PM	Unknown
48	I2100823D	480-212997-E-6-A	10/8/2023	1:55:05PM	Unknown
49	I2100823D	480-212997-E-7-A	10/8/2023	1:58:50PM	Unknown
50	I2100823D	480-212997-E-8-A	10/8/2023	2:02:41PM	Unknown
51	I2100823D	480-212997-E-9-A	10/8/2023	2:06:31PM	Unknown
52	I2100823D	480-212997-E-10-A	10/8/2023	2:10:23PM	Unknown
53	I2100823D	480-212997-E-11-A	10/8/2023	2:14:10PM	Unknown
54	I2100823D	480-212997-E-12-A	10/8/2023	2:18:01PM	Unknown
55	I2100823D	CCV-7538313	10/8/2023	2:21:52PM	QC
56	I2100823D	CCB-7506043	10/8/2023	2:25:26PM	QC
57	I2100823D	CCVL-7610998	10/8/2023	2:29:09PM	QC
58	I2100823D	480-212984-A-7-A	10/8/2023	2:32:51PM	Unknown
59	I2100823D	480-212984-A-5-A	10/8/2023	2:36:33PM	Unknown
60	I2100823D	480-212984-A-3-A	10/8/2023	2:40:10PM	Unknown
61	I2100823D	480-212984-A-1-A	10/8/2023	2:43:47PM	Unknown
62	I2100823D	480-212960-C-98-A	10/8/2023	2:47:23PM	Unknown
63	I2100823D	480-212960-C-97-A	10/8/2023	2:51:06PM	Unknown
64	I2100823D	rinse	10/8/2023	2:54:50PM	Unknown
65	I2100823D	MB 480-685462/1-A	10/8/2023	2:58:34PM	Unknown
66	I2100823D	LCS 480-685462/2-A	10/8/2023	3:02:18PM	Unknown
67	I2100823D	CCV-7538313	10/8/2023	3:05:52PM	QC
68	I2100823D	CCB-7506043	10/8/2023	3:09:26PM	QC
69	I2100823D	CCVL-7610998	10/8/2023	3:13:09PM	QC
70	I2100823D	620-14149-F-6-D	10/8/2023	3:16:52PM	Unknown
71	I2100823D	620-14149-F-6-Dsd@5	10/8/2023	3:20:31PM	Unknown
72	I2100823D	620-14149-F-6-DPDS	10/8/2023	3:24:09PM	Unknown
73	I2100823D	620-14149-F-6-E MS	10/8/2023	3:27:39PM	Unknown
74	I2100823D	620-14149-F-6-F MSD	10/8/2023	3:31:11PM	Unknown
75	I2100823D	620-14149-F-8-B	10/8/2023	3:34:42PM	Unknown
76	I2100823D	620-14149-F-7-B	10/8/2023	3:38:20PM	Unknown
77	I2100823D	480-213104-D-1-B	10/8/2023	3:41:59PM	Unknown
78	I2100823D	480-213104-D-2-B	10/8/2023	3:45:39PM	Unknown
79	I2100823D	CCV-7538313	10/8/2023	3:49:20PM	QC
80	I2100823D	CCB-7506043	10/8/2023	3:52:54PM	QC
81	I2100823D	CCVL-7610998	10/8/2023	3:56:37PM	QC
82	I2100823D	480-213104-D-3-B	10/8/2023	4:00:20PM	Unknown
83	I2100823D	480-213104-D-4-D	10/8/2023	4:03:59PM	Unknown
84	I2100823D	480-213104-D-4-E MS	10/8/2023	4:07:40PM	Unknown
85	I2100823D	480-213104-D-4-F MSD	10/8/2023	4:11:12PM	Unknown
86	I2100823D	480-213162-D-1-A	10/8/2023	4:14:45PM	Unknown
87	I2100823D	480-213165-D-1-A	10/8/2023	4:18:21PM	Unknown
88	I2100823D	480-213151-D-1-A	10/8/2023	4:22:14PM	Unknown
89	I2100823D	480-213151-D-2-A	10/8/2023	4:25:50PM	Unknown
90	I2100823D	480-213117-G-7-A	10/8/2023	4:29:29PM	Unknown
91	I2100823D	CCV-7538313	10/8/2023	4:33:07PM	QC
92	I2100823D	CCB-7506043	10/8/2023	4:36:41PM	QC
93	I2100823D	CCVL-7610998	10/8/2023	4:40:24PM	QC
94	I2100823D	480-213165-D-1-A@5	10/8/2023	4:44:05PM	Unknown

95	I2100823D	rinse	10/8/2023	4:47:47PM	Unknown
96	I2100823D	MB 480-685445/1-A	10/8/2023	4:51:30PM	Unknown
97	I2100823D	LCS 480-685445/2-A	10/8/2023	4:55:13PM	Unknown
98	I2100823D	480-213125-B-1-A	10/8/2023	4:58:44PM	Unknown
99	I2100823D	480-213125-B-1-Asd@5	10/8/2023	5:02:27PM	Unknown
100	I2100823D	480-213125-B-1-APDS	10/8/2023	5:06:04PM	Unknown
101	I2100823D	480-213125-B-1-B MS	10/8/2023	5:09:52PM	Unknown
102	I2100823D	480-213125-B-1-C MSD	10/8/2023	5:13:39PM	Unknown
103	I2100823D	CCV-7538313	10/8/2023	5:17:28PM	QC
104	I2100823D	CCB-7506043	10/8/2023	5:21:02PM	QC
105	I2100823D	CCVL-7610998	10/8/2023	5:24:44PM	QC
106	I2100823D	480-213125-B-2-A	10/8/2023	5:28:24PM	Unknown
107	I2100823D	480-213125-B-3-A	10/8/2023	5:32:18PM	Unknown
108	I2100823D	480-213126-D-1-A	10/8/2023	5:36:13PM	Unknown
109	I2100823D	480-213156-E-1-A	10/8/2023	5:39:56PM	Unknown
110	I2100823D	480-213147-F-1-A	10/8/2023	5:43:33PM	Unknown
111	I2100823D	480-213144-A-1-A	10/8/2023	5:47:18PM	Unknown
112	I2100823D	480-213138-A-1-A	10/8/2023	5:50:56PM	Unknown
113	I2100823D	480-213155-D-1-A	10/8/2023	5:54:48PM	Unknown
114	I2100823D	480-213074-C-1-A	10/8/2023	5:58:23PM	Unknown
115	I2100823D	CCV-7538313	10/8/2023	6:02:01PM	QC
116	I2100823D	CCB-7506043	10/8/2023	6:05:35PM	QC
117	I2100823D	CCVL-7610998	10/8/2023	6:09:18PM	QC
118	I2100823D	MB 480-684506/1-A	10/8/2023	6:12:59PM	Unknown
119	I2100823D	LCS 480-684506/2-A	10/8/2023	6:16:40PM	Unknown
120	I2100823D	LCSD 480-684506/3-A	10/8/2023	6:20:12PM	Unknown
121	I2100823D	480-212933-B-1-A	10/8/2023	6:23:44PM	Unknown
122	I2100823D	480-212933-B-1-Asd@5	10/8/2023	6:27:22PM	Unknown
123	I2100823D	480-212933-B-1-APDS	10/8/2023	6:31:02PM	Unknown
124	I2100823D	480-212933-B-1-B MS	10/8/2023	6:34:34PM	Unknown
125	I2100823D	480-212933-B-1-C MSD	10/8/2023	6:38:07PM	Unknown
126	I2100823D	480-212953-D-1-A	10/8/2023	6:41:39PM	Unknown
127	I2100823D	CCV-7538313	10/8/2023	6:45:18PM	QC
128	I2100823D	CCB-7506043	10/8/2023	6:48:53PM	QC
129	I2100823D	CCVL-7610998	10/8/2023	6:52:36PM	QC
130	I2100823D	480-212953-D-2-A	10/8/2023	6:56:17PM	Unknown
131	I2100823D	480-212953-D-3-A	10/8/2023	6:59:59PM	Unknown
132	I2100823D	480-212953-D-4-A	10/8/2023	7:03:37PM	Unknown
133	I2100823D	480-212953-D-5-A	10/8/2023	7:07:15PM	Unknown
134	I2100823D	480-212953-D-6-A	10/8/2023	7:10:56PM	Unknown
135	I2100823D	480-212953-D-7-A	10/8/2023	7:14:39PM	Unknown
136	I2100823D	480-212953-D-8-A	10/8/2023	7:18:20PM	Unknown
137	I2100823D	480-212953-D-9-A	10/8/2023	7:22:00PM	Unknown
138	I2100823D	480-212953-D-10-A	10/8/2023	7:25:42PM	Unknown
139	I2100823D	CCV-7538313	10/8/2023	7:29:21PM	QC
140	I2100823D	CCB-7506043	10/8/2023	7:32:57PM	QC
141	I2100823D	CCVL-7610998	10/8/2023	7:36:41PM	QC
142	I2100823D	480-212953-D-11-A	10/8/2023	7:40:22PM	Unknown
143	I2100823D	480-212953-D-12-A	10/8/2023	7:43:59PM	Unknown
144	I2100823D	480-212953-D-13-A	10/8/2023	7:47:41PM	Unknown
145	I2100823D	rinse	10/8/2023	7:51:21PM	Unknown
146	I2100823D	MB 480-685639/1-A	10/8/2023	7:55:03PM	Unknown

147	I2100823D	LCS 480-685639/2-A	10/8/2023	7:58:45PM	Unknown
148	I2100823D	480-213174-F-1-B	10/8/2023	8:02:17PM	Unknown
149	I2100823D	480-213174-F-1-Bsd@5	10/8/2023	8:06:04PM	Unknown
150	I2100823D	480-213174-F-1-BPDS	10/8/2023	8:09:44PM	Unknown
151	I2100823D	CCV-7538313	10/8/2023	8:13:26PM	QC
152	I2100823D	CCB-7506043	10/8/2023	8:17:00PM	QC
153	I2100823D	CCVL-7610998	10/8/2023	8:20:44PM	QC
154	I2100823D	480-213174-F-1-C MS	10/8/2023	8:24:26PM	Unknown
155	I2100823D	480-213174-F-1-D MSD	10/8/2023	8:28:09PM	Unknown
156	I2100823D	480-213176-A-1-A	10/8/2023	8:31:50PM	Unknown
157	I2100823D	480-213178-F-5-B	10/8/2023	8:35:33PM	Unknown
158	I2100823D	480-213140-D-5-B	10/8/2023	8:39:33PM	Unknown
159	I2100823D	480-213181-A-4-B	10/8/2023	8:43:47PM	Unknown
160	I2100823D	rinse	10/8/2023	8:47:32PM	Unknown
161	I2100823D	MB 480-684702/1-A	10/8/2023	8:51:15PM	Unknown
162	I2100823D	LCS 480-684702/2-A	10/8/2023	8:54:56PM	Unknown
163	I2100823D	CCV-7538313	10/8/2023	8:58:29PM	QC
164	I2100823D	CCB-7506043	10/8/2023	9:02:03PM	QC
165	I2100823D	CCVL-7610998	10/8/2023	9:05:47PM	QC
166	I2100823D	480-212958-C-1-A	10/8/2023	9:09:28PM	Unknown
167	I2100823D	480-212958-C-1-Asd@5	10/8/2023	9:13:09PM	Unknown
168	I2100823D	480-212958-C-1-APDS	10/8/2023	9:16:49PM	Unknown
169	I2100823D	480-212958-C-1-B MS	10/8/2023	9:20:22PM	Unknown
170	I2100823D	480-212958-C-1-C MSD	10/8/2023	9:24:01PM	Unknown
171	I2100823D	480-212958-C-2-A	10/8/2023	9:27:39PM	Unknown
172	I2100823D	480-212958-C-3-A	10/8/2023	9:31:19PM	Unknown
173	I2100823D	480-212958-C-3-B MS	10/8/2023	9:35:01PM	Unknown
174	I2100823D	480-212958-C-3-C MSD	10/8/2023	9:38:37PM	Unknown
175	I2100823D	CCV-7538313	10/8/2023	9:42:14PM	QC
176	I2100823D	CCB-7506043	10/8/2023	9:45:49PM	QC
177	I2100823D	CCVL-7610998	10/8/2023	9:49:30PM	QC
178	I2100823D	480-212958-C-4-A	10/8/2023	9:53:12PM	Unknown
179	I2100823D	480-212958-C-5-A	10/8/2023	9:56:49PM	Unknown
180	I2100823D	480-212958-C-6-A	10/8/2023	10:00:34PM	Unknown
181	I2100823D	480-212958-C-7-A	10/8/2023	10:04:13PM	Unknown
182	I2100823D	480-212958-C-8-A	10/8/2023	10:07:50PM	Unknown
183	I2100823D	480-212958-C-9-A	10/8/2023	10:11:26PM	Unknown
184	I2100823D	480-212958-C-10-A	10/8/2023	10:15:09PM	Unknown
185	I2100823D	480-212988-D-1-A	10/8/2023	10:18:52PM	Unknown
186	I2100823D	480-212976-O-1-A	10/8/2023	10:22:32PM	Unknown
187	I2100823D	CCV-7538313	10/8/2023	10:26:27PM	QC
188	I2100823D	CCB-7506043	10/8/2023	10:30:01PM	QC
189	I2100823D	CCVL-7610998	10/8/2023	10:33:43PM	QC
190	I2100823D	480-212977-B-1-A	10/8/2023	10:37:24PM	Unknown
191	I2100823D	480-212937-F-1-A	10/8/2023	10:41:01PM	Unknown
192	I2100823D	620-14074-B-1-A	10/8/2023	10:44:53PM	Unknown
193	I2100823D	rinse	10/8/2023	10:48:26PM	Unknown
194	I2100823D	MB 480-685465/1-A	10/8/2023	10:52:09PM	Unknown
195	I2100823D	LCS 480-685465/2-A	10/8/2023	10:55:51PM	Unknown
196	I2100823D	480-213123-B-1-A	10/8/2023	10:59:25PM	Unknown
197	I2100823D	480-213123-B-1-Asd@5	10/8/2023	11:03:08PM	Unknown
198	I2100823D	480-213123-B-1-APDS	10/8/2023	11:06:50PM	Unknown

199	I2100823D	CCV-7538313	10/8/2023	11:10:23PM	QC
200	I2100823D	CCB-7506043	10/8/2023	11:13:57PM	QC
201	I2100823D	CCVL-7610998	10/8/2023	11:17:40PM	QC
202	I2100823D	480-213123-B-1-B MS	10/8/2023	11:21:22PM	Unknown
203	I2100823D	480-213123-B-1-C MSD	10/8/2023	11:24:54PM	Unknown
204	I2100823D	480-213123-B-2-A	10/8/2023	11:28:26PM	Unknown
205	I2100823D	480-213123-B-3-A	10/8/2023	11:32:05PM	Unknown
206	I2100823D	480-213123-B-4-A	10/8/2023	11:35:43PM	Unknown
207	I2100823D	480-213123-B-5-A	10/8/2023	11:39:21PM	Unknown
208	I2100823D	rinse	10/8/2023	11:43:01PM	Unknown
209	I2100823D	MB 480-685631/1-A	10/8/2023	11:46:45PM	Unknown
210	I2100823D	LCS 480-685631/2-A	10/8/2023	11:50:29PM	Unknown
211	I2100823D	CCV-7538313	10/8/2023	11:54:03PM	QC
212	I2100823D	CCB-7506043	10/8/2023	11:57:36PM	QC
213	I2100823D	CCVL-7610998	10/9/2023	12:01:20AM	QC
214	I2100823D	480-213170-A-1-A	10/9/2023	12:05:02AM	Unknown
215	I2100823D	480-213170-A-2-A	10/9/2023	12:08:40AM	Unknown
216	I2100823D	480-213170-A-3-A	10/9/2023	12:12:24AM	Unknown
217	I2100823D	480-213170-A-4-A	10/9/2023	12:16:09AM	Unknown
218	I2100823D	480-213170-A-5-A	10/9/2023	12:19:53AM	Unknown
219	I2100823D	480-213170-A-6-A	10/9/2023	12:23:35AM	Unknown
220	I2100823D	480-213170-A-6-Asd@5	10/9/2023	12:27:14AM	Unknown
221	I2100823D	480-213170-A-6-APDS	10/9/2023	12:30:54AM	Unknown
222	I2100823D	480-213170-A-6-B MS	10/9/2023	12:34:27AM	Unknown
223	I2100823D	CCV-7538313	10/9/2023	12:38:00AM	QC
224	I2100823D	CCB-7506043	10/9/2023	12:41:34AM	QC
225	I2100823D	CCVL-7610998	10/9/2023	12:45:18AM	QC
226	I2100823D	480-213170-A-6-C MSD	10/9/2023	12:49:01AM	Unknown
227	I2100823D	480-213170-A-7-A	10/9/2023	12:52:34AM	Unknown
228	I2100823D	480-213170-A-8-A	10/9/2023	12:56:12AM	Unknown
229	I2100823D	480-213170-A-9-A	10/9/2023	12:59:50AM	Unknown
230	I2100823D	480-213170-A-10-A	10/9/2023	1:03:45AM	Unknown
231	I2100823D	480-213200-A-1-A	10/9/2023	1:07:30AM	Unknown
232	I2100823D	480-213200-A-7-A	10/9/2023	1:11:12AM	Unknown
233	I2100823D	480-213200-A-7-B MS	10/9/2023	1:14:57AM	Unknown
234	I2100823D	480-213200-A-7-C MSD	10/9/2023	1:18:35AM	Unknown
235	I2100823D	CCV-7538313	10/9/2023	1:22:14AM	QC
236	I2100823D	CCB-7506043	10/9/2023	1:25:48AM	QC
237	I2100823D	CCVL-7610998	10/9/2023	1:29:32AM	QC
238	I2100823D	480-213200-A-3-A	10/9/2023	1:33:14AM	Unknown
239	I2100823D	480-213200-A-6-A	10/9/2023	1:36:59AM	Unknown
240	I2100823D	480-213200-A-9-A	10/9/2023	1:40:42AM	Unknown
	I2100823D	480-213200-A-10-A	10/9/2023	1:44:25AM	Unknown
	I2100823D	rinse	10/9/2023	1:48:01AM	Unknown
	I2100823D	MB 480-684688/1-A	10/9/2023	1:51:46AM	Unknown
	I2100823D	LCS 480-684688/2-A	10/9/2023	1:55:33AM	Unknown
	I2100823D	480-212996-B-1-A	10/9/2023	1:59:19AM	Unknown
	I2100823D	480-212996-B-1-Asd@5	10/9/2023	2:03:06AM	Unknown
	I2100823D	CCV-7538313	10/9/2023	2:06:54AM	QC
	I2100823D	CCB-7506043	10/9/2023	2:10:27AM	QC
	I2100823D	CCVL-7610998	10/9/2023	2:14:10AM	QC
	I2100823D	480-212996-B-1-APDS	10/9/2023	2:17:56AM	Unknown

I2100823D	480-212996-B-1-B MS	10/9/2023	2:21:43AM	Unknown
I2100823D	480-212996-B-1-C MSD	10/9/2023	2:25:17AM	Unknown
I2100823D	480-212996-B-2-A	10/9/2023	2:28:49AM	Unknown
I2100823D	480-212996-B-3-A	10/9/2023	2:32:29AM	Unknown
I2100823D	480-212996-B-4-A	10/9/2023	2:36:10AM	Unknown
I2100823D	480-212996-B-5-A	10/9/2023	2:39:58AM	Unknown
I2100823D	CCVL-7610998	10/9/2023	2:43:35AM	QC
I2100823D	ICSA-7420389	10/9/2023	2:47:23AM	QC
I2100823D	CCV-7538313	10/9/2023	2:51:12AM	QC
I2100823D	CCB-7506043	10/9/2023	2:54:47AM	QC
I2100823D	ICSAB-7538391	10/9/2023	2:58:31AM	QC
I2100823D	CCV-7538313	10/9/2023	3:02:19AM	QC
I2100823D	CCB-7506043	10/9/2023	3:05:53AM	QC

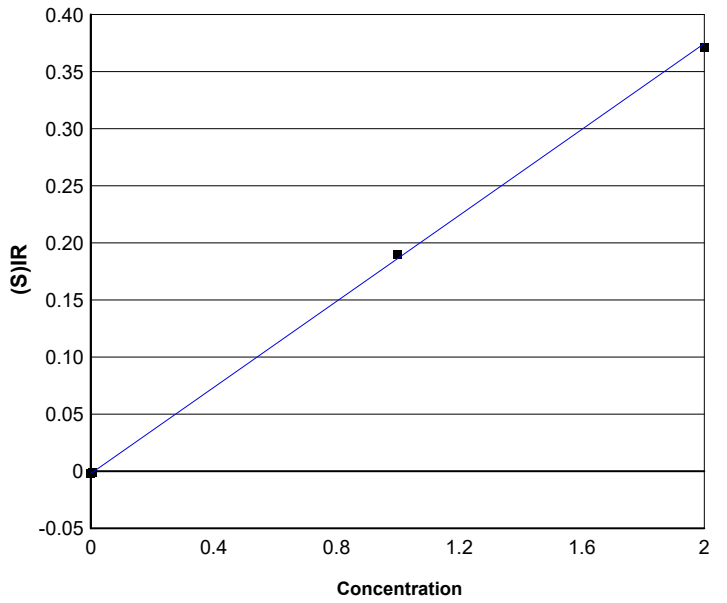
Flexible Report By Sample

Author:

Published: 10/10/2023 10:22:05AM

Instrument Name: ETA-ICAP2 Serial Number: 20094602

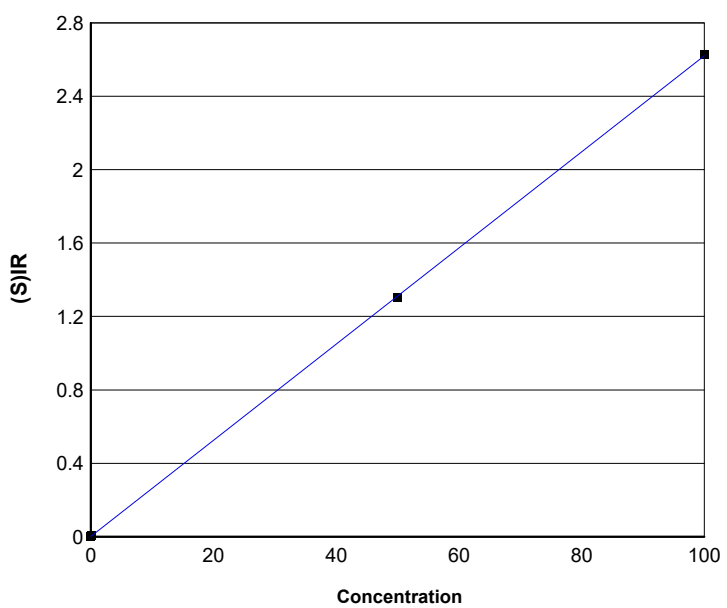
Method Name: test (73)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.0018754
A1 (Gain):	0.18815
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

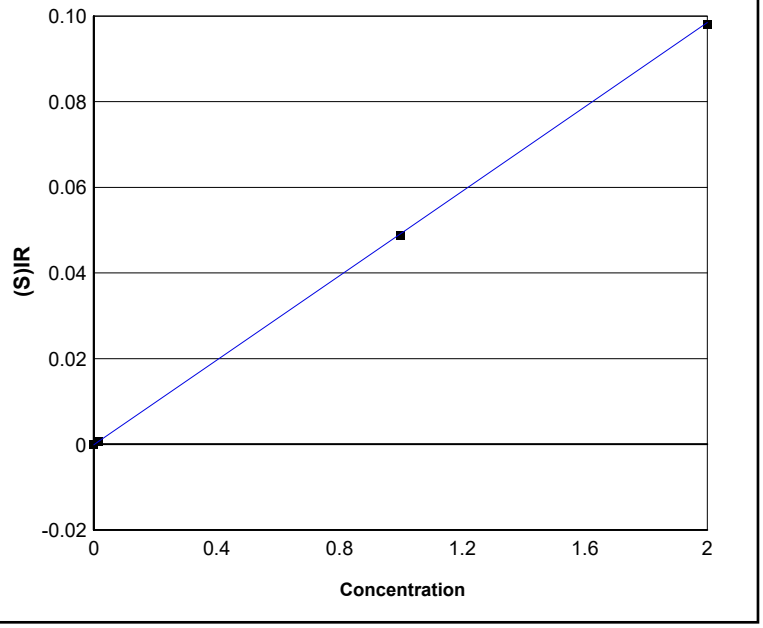
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000005095	-0.0000005095	0.00000	-0.0018755	0.000023272	1
IC-7610998	0.0060000	0.0064584	0.00045844	7.6407	-0.00066035	0.000069527	1
IC-7538313	1.0000	1.0175	0.017485	1.7485	0.18937	0.0014132	1
IC-7485776	2.0000	1.9821	-0.017944	-0.89719	0.37066	0.0016919	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0015546
A1 (Gain):	0.026193
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

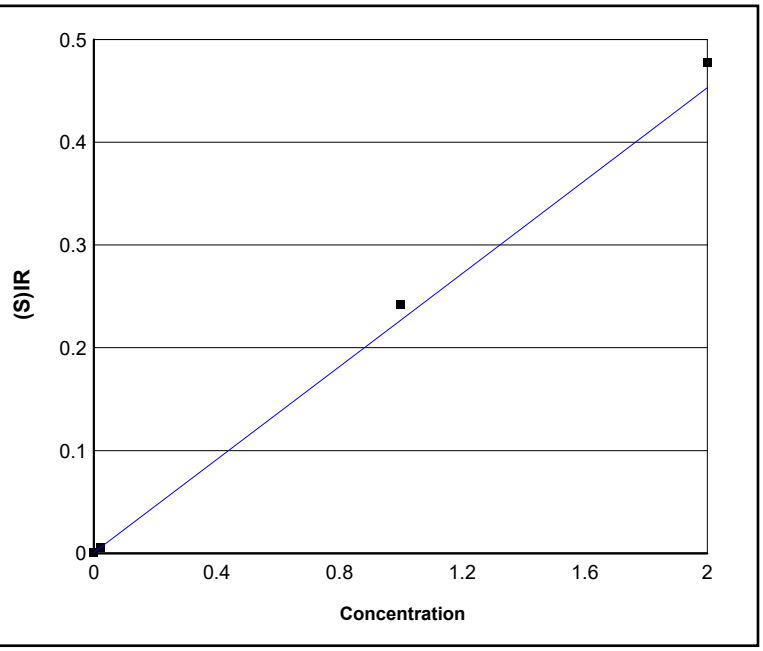
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000033919	-0.0000033919	0.00000	0.0015545	0.00071277	1
IC-7610998	0.20000	0.20391	0.0039146	1.9573	0.0068961	0.00044556	1
IC-7538313	50.000	49.743	-0.25744	-0.51489	1.3045	0.0035751	1
IC-7485776	100.00	100.25	0.25353	0.25353	2.6276	0.0076259	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00011000
A1 (Gain):	0.049309
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

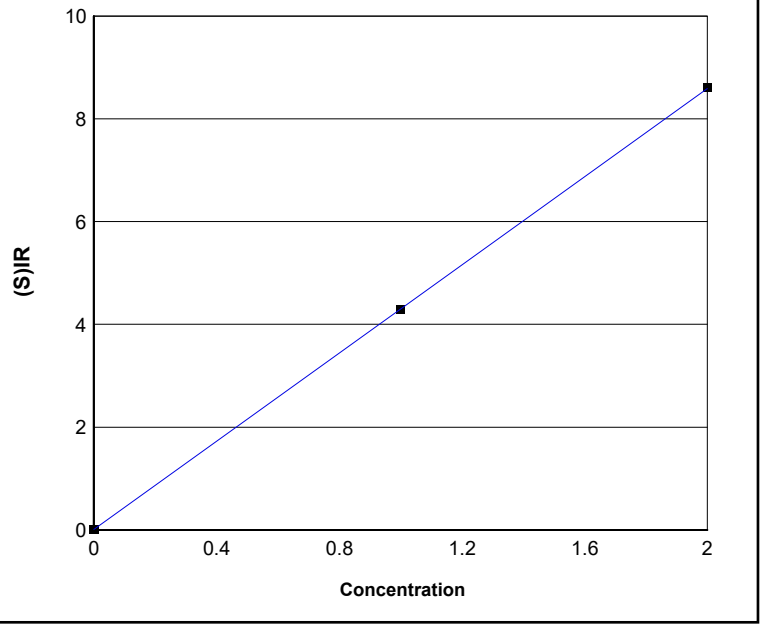
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000011747	0.0000011747	0.00000	-0.00010994	0.000039311	1
IC-7610998	0.015000	0.013832	-0.0011681	-7.7871	0.00056888	0.000021005	1
IC-7538313	1.0000	0.99795	-0.0020506	-0.20506	0.048782	0.000045904	1
IC-7485776	2.0000	2.0032	0.0032212	0.16106	0.098035	0.00033525	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00064118
A1 (Gain):	0.22619
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

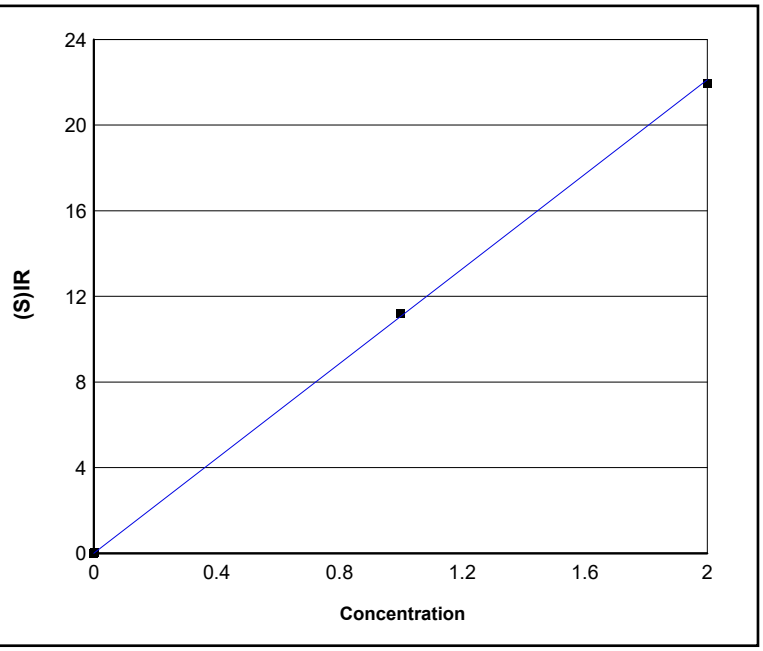
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000002208	0.0000002208	0.00000	0.00064123	0.000013228	1
IC-7610998	0.020000	0.019679	-0.00032083	-1.6041	0.0052250	0.00012799	1
IC-7538313	1.0000	1.0097	0.0096879	0.96879	0.24228	0.00013678	1
IC-7485776	2.0000	1.9906	-0.0093760	-0.46880	0.47742	0.0010054	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.010433
A1 (Gain):	4.2887
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

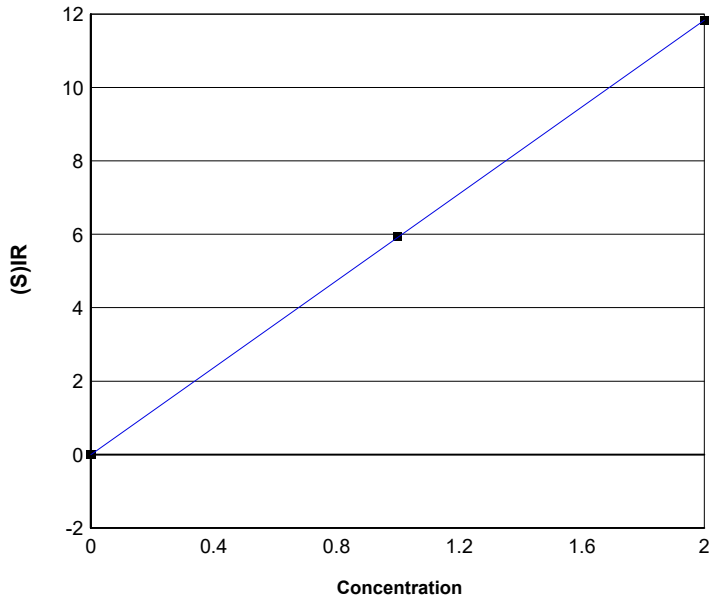
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000005411	0.0000005411	0.00000	0.010435	0.00064509	1
IC-7610998	0.0020000	0.0014616	-0.00053839	-26.919	0.016701	0.0013736	1
IC-7538313	1.0000	0.99676	-0.0032391	-0.32391	4.2852	0.011538	1
IC-7485776	2.0000	2.0038	0.0037775	0.18887	8.6040	0.016527	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0026479
A1 (Gain):	11.060
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

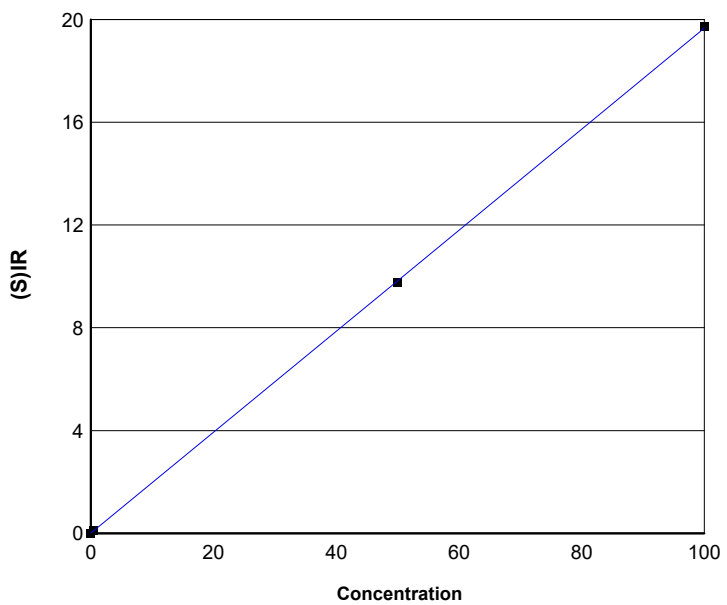
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000001069	-0.0000001069	0.00000	0.0026467	0.0000033144	1
IC-7610998	0.0020000	0.0020933	0.000093345	4.6673	0.025801	0.00026321	1
IC-7538313	1.0000	1.0136	0.013624	1.3624	11.213	0.065242	1
IC-7485776	2.0000	1.9863	-0.013717	-0.68585	21.971	0.016704	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0063397
A1 (Gain):	5.9221
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

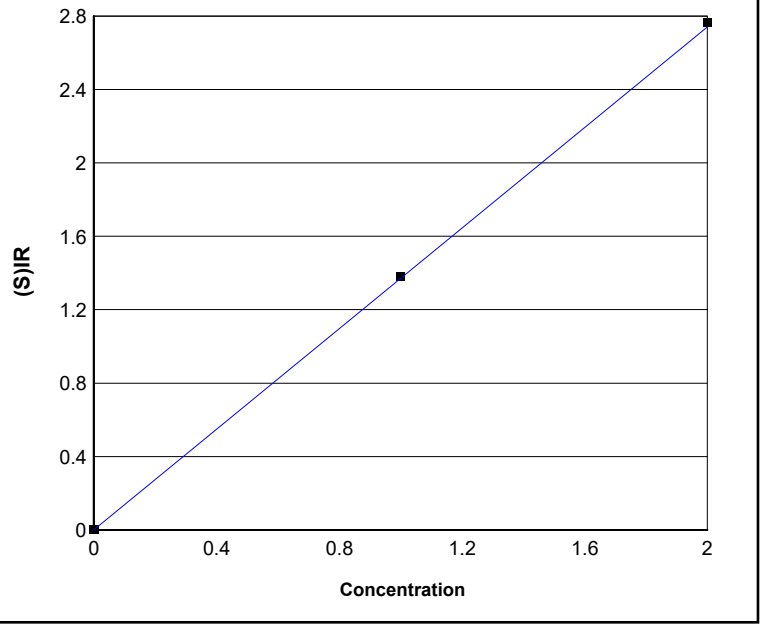
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000001192	0.0000001192	0.00000	-0.0063390	0.00053067	1
IC-7610998	0.0020000	0.0018785	-0.00012152	-6.0762	0.0047849	0.00068919	1
IC-7538313	1.0000	1.0023	0.0022503	0.22503	5.9291	0.0066564	1
IC-7485776	2.0000	1.9979	-0.0021288	-0.10644	11.825	0.040829	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0059063
A1 (Gain):	0.19657
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

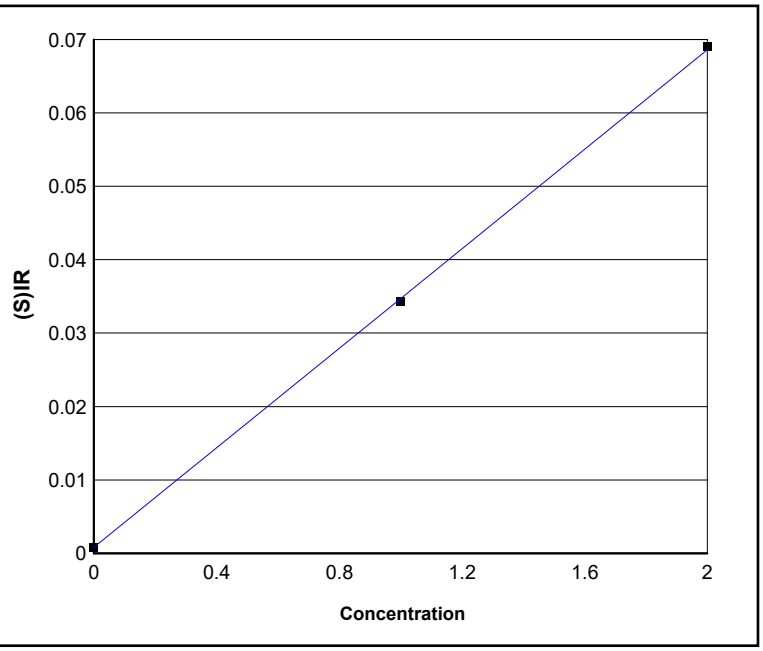
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	-0.000011187	-0.000011187	0.00000	0.0059041	0.00065011	1
IC-7610998	0.50000	0.51305	0.013054	2.6107	0.10676	0.00030411	1
IC-7538313	50.000	49.640	-0.36030	-0.72059	9.7635	0.0013398	1
IC-7485776	100.00	100.35	0.34724	0.34724	19.731	0.061565	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00022103
A1 (Gain):	1.3706
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

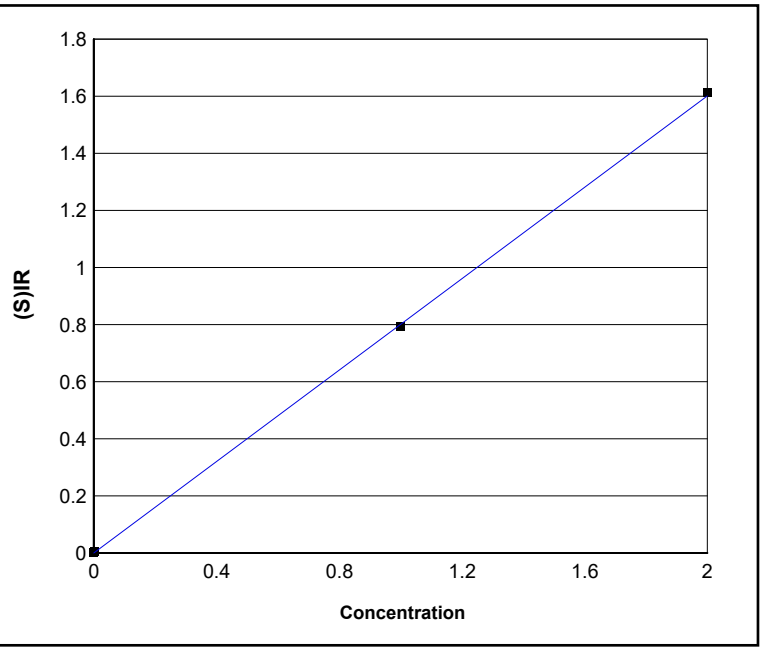
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000888	-0.0000000888	0.00000	0.00022091	0.00013034	1
IC-7610998	0.0020000	0.0020902	0.000090212	4.5106	0.0032695	0.00011234	1
IC-7538313	1.0000	0.99867	-0.0013292	-0.13292	1.3807	0.0019222	1
IC-7485776	2.0000	2.0012	0.0012338	0.061689	2.7666	0.0029358	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.0008311
A1 (Gain):	0.03388
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

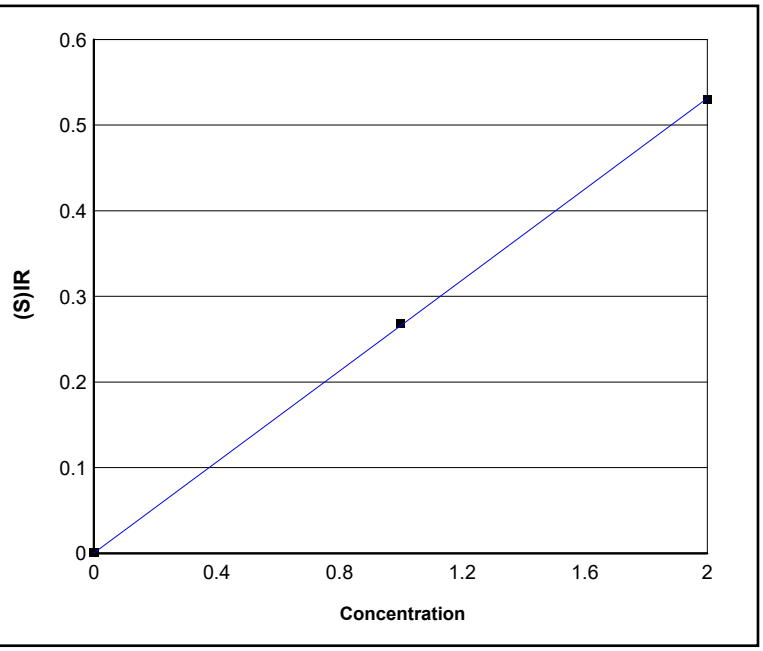
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000	0.000006157	0.000006157	0.0000	0.0008313	0.001555	1
IC-7485776	2.000	2.012	0.01231	0.6157	0.06902	0.001452	1
IC-7538313	1.000	0.9877	-0.01231	-1.231	0.03430	0.0001424	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00010533
A1 (Gain):	0.80032
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

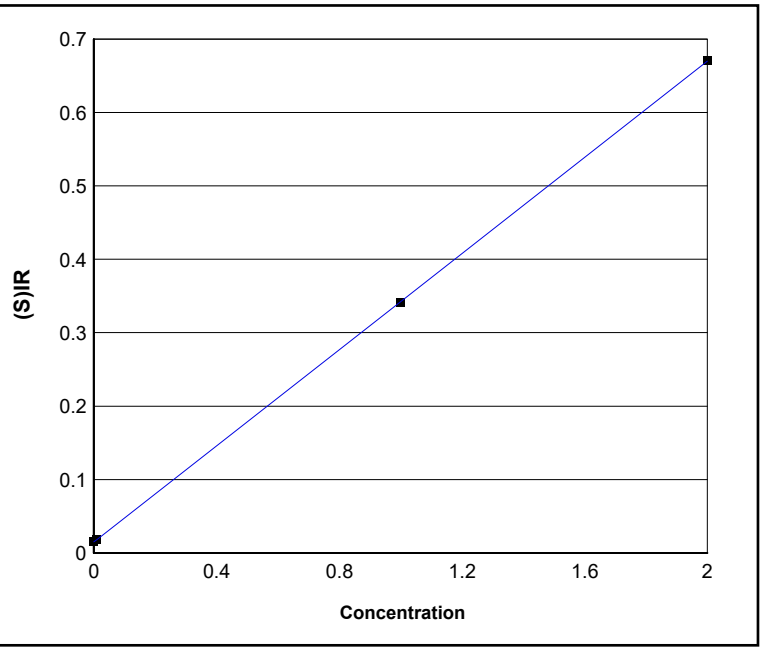
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000943	0.0000000943	0.00000	0.00010540	0.00018005	1
IC-7610998	0.0040000	0.0039262	-0.000073764	-1.8441	0.0032516	0.000048357	1
IC-7538313	1.0000	0.98964	-0.010357	-1.0357	0.79336	0.00083501	1
IC-7485776	2.0000	2.0104	0.010431	0.52154	1.6115	0.0028315	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00035971
A1 (Gain):	0.26555
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

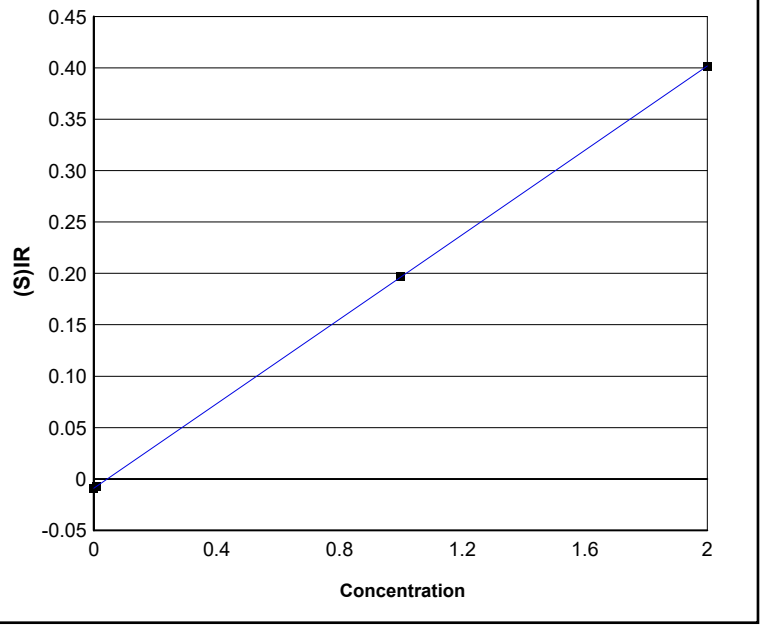
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000299	-0.0000000299	0.00000	0.00035970	0.000015978	1
IC-7610998	0.0040000	0.0040140	0.000013998	0.34995	0.0014257	0.000014926	1
IC-7538313	1.0000	1.0080	0.0079787	0.79787	0.26806	0.0012663	1
IC-7485776	2.0000	1.9920	-0.0079927	-0.39963	0.52940	0.0025984	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.015036
A1 (Gain):	0.32747
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

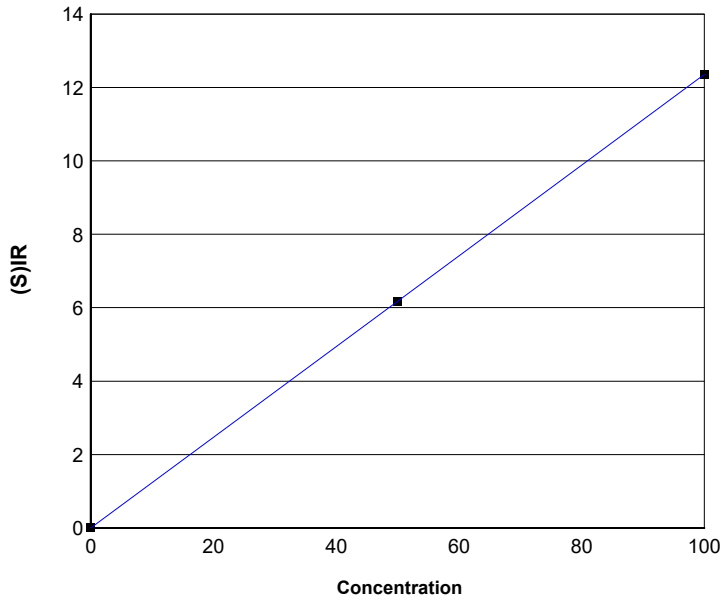
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000002307	0.0000002307	0.00000	0.015036	0.000032227	1
IC-7610998	0.010000	0.0097809	-0.00021914	-2.1914	0.018239	0.00013847	1
IC-7538313	1.0000	0.99748	-0.0025241	-0.25241	0.34168	0.0017527	1
IC-7485776	2.0000	2.0027	0.0027433	0.13716	0.67088	0.0052159	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0090274
A1 (Gain):	0.20550
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

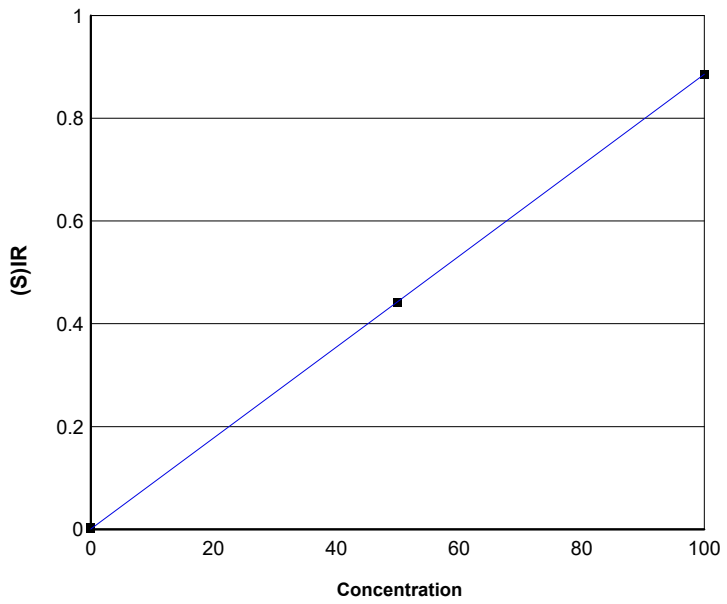
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000337	-0.0000000337	0.00000	-0.0090275	0.00022528	1
IC-7610998	0.010000	0.010020	0.000019878	0.19878	-0.0069661	0.00010210	1
IC-7538313	1.0000	1.0028	0.0027877	0.27877	0.19719	0.0013301	1
IC-7485776	2.0000	1.9972	-0.0028076	-0.14038	0.40169	0.0043695	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00064696
A1 (Gain):	0.12352
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

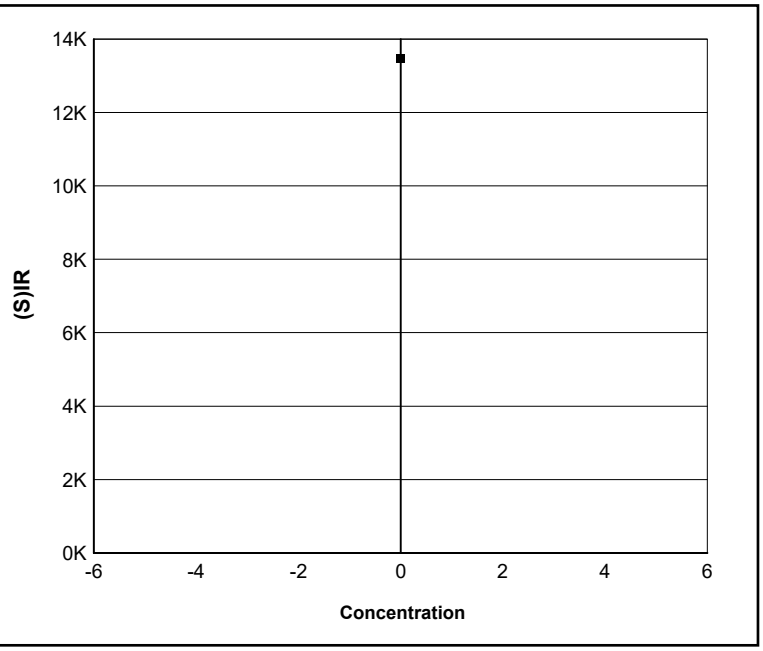
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000026857	-0.0000026857	0.00000	0.00064662	0.000055894	1
IC-7610998	0.050000	0.052660	0.0026600	5.3200	0.0071514	0.00046458	1
IC-7538313	50.000	50.054	0.054113	0.10823	6.1832	0.0094571	1
IC-7485776	100.00	99.943	-0.056773	-0.056773	12.345	0.019130	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99832
A0 (Offset):	0.00079233
A1 (Gain):	0.0088513
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

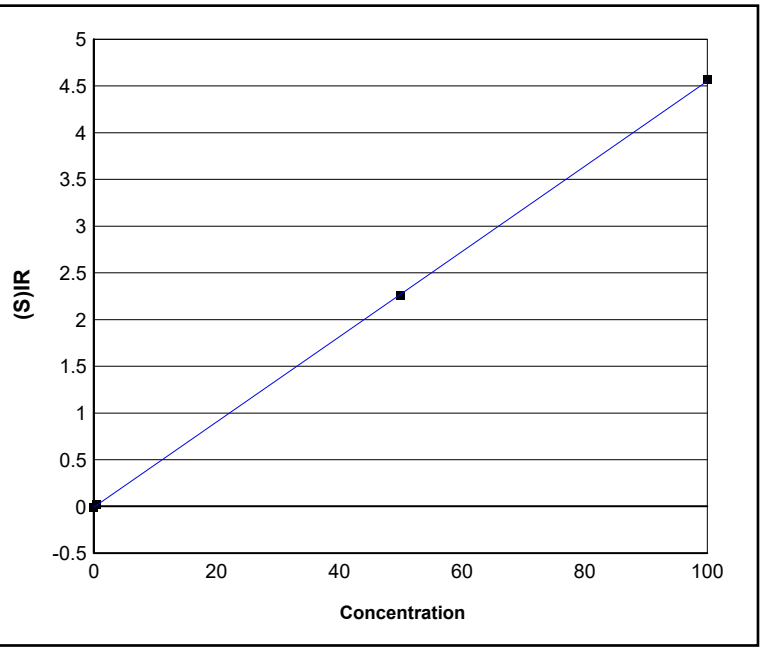
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	-0.00015879	-0.00015879	0.00000	0.00079092	0.00055258	1
IC-7610998	0.050000	0.20895	0.15895	317.90	0.0026418	0.00026574	1
IC-7538313	50.000	49.845	-0.15488	-0.30976	0.44199	0.0015487	1
IC-7485776	100.00	99.996	-0.0040679	-0.0040679	0.88589	0.0033269	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 11:57:24AM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

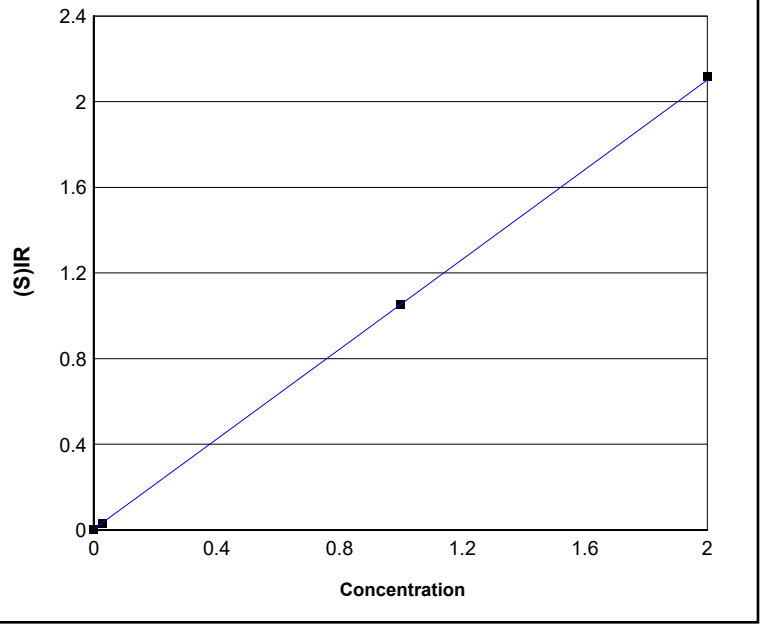
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000			0.0000	13,480	24.82	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.0085419
A1 (Gain):	0.045624
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

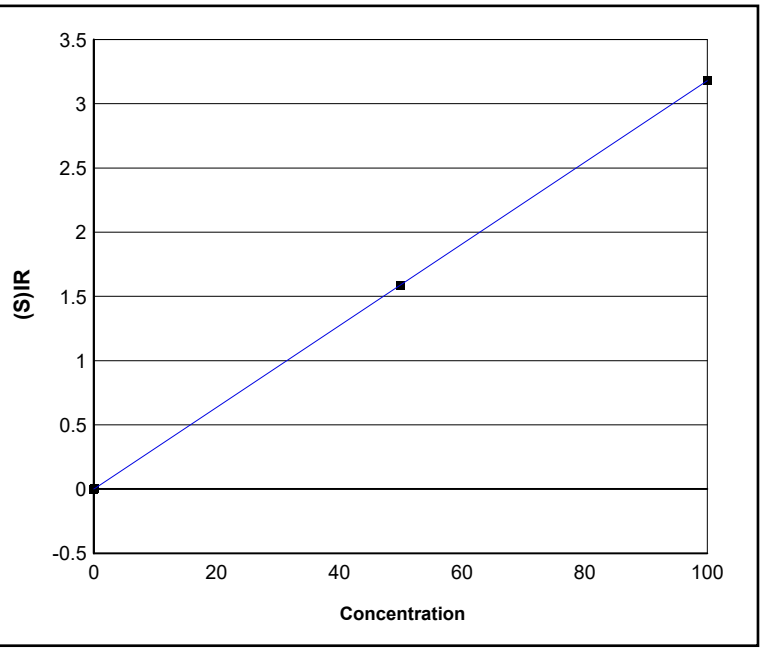
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	-0.000050597	-0.000050597	0.00000	-0.0085442	0.0031129	1
IC-7610998	0.50000	0.55294	0.052942	10.588	0.016685	0.0013801	1
IC-7538313	50.000	49.584	-0.41593	-0.83185	2.2537	0.011405	1
IC-7485776	100.00	100.36	0.36299	0.36299	4.5704	0.016744	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.0033387
A1 (Gain):	1.0496
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

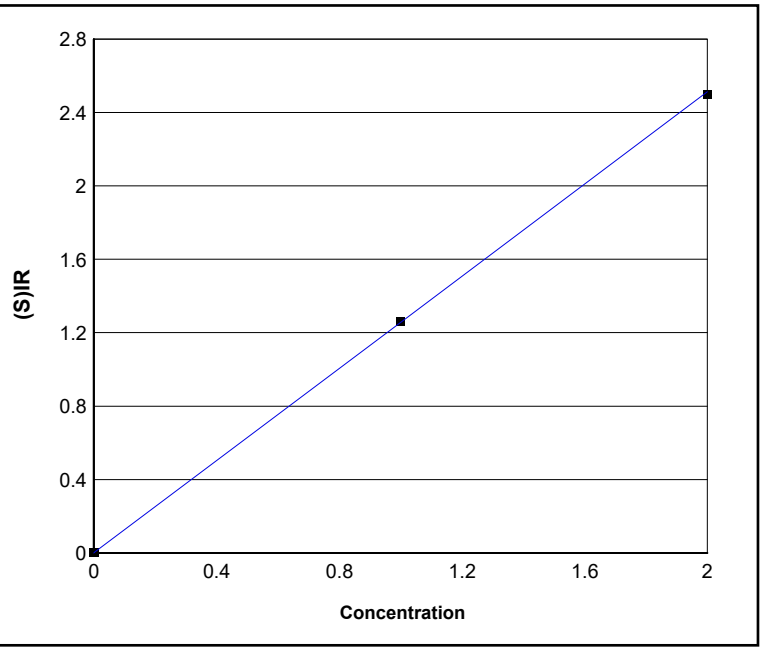
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000041314	0.0000041314	0.00000	0.0033430	0.0029431	1
IC-7610998	0.030000	0.025888	-0.0041119	-13.706	0.030543	0.0026173	1
IC-7538313	1.0000	0.99459	-0.0054081	-0.54081	1.0505	0.00021772	1
IC-7485776	2.0000	2.0095	0.0095114	0.47557	2.1190	0.0084432	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000033345
A1 (Gain):	0.031784
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

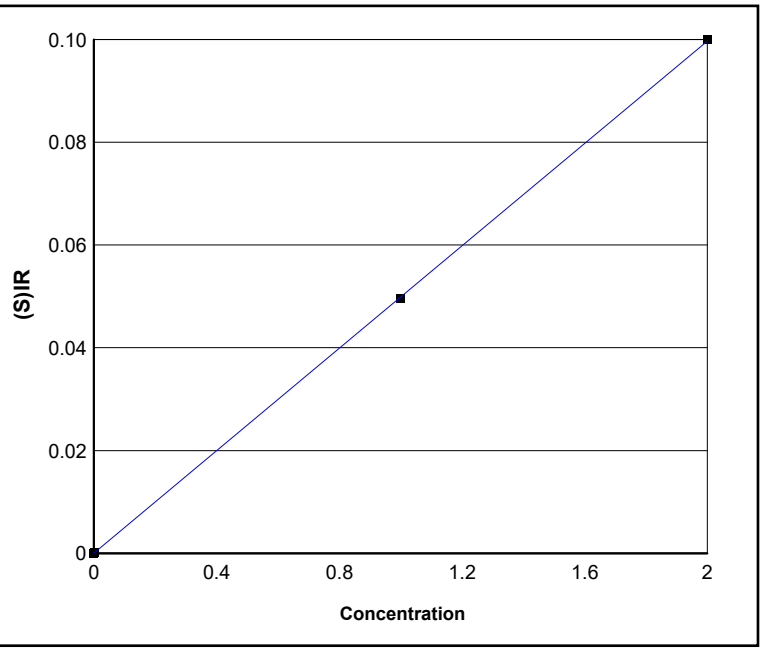
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000004193	0.0000004193	0.00000	-0.000033332	0.0000074714	1
IC-7610998	0.20000	0.19982	-0.00017583	-0.087917	0.0063175	0.00010477	1
IC-7538313	50.000	49.878	-0.12193	-0.24386	1.5852	0.0095892	1
IC-7485776	100.00	100.12	0.12210	0.12210	3.1820	0.0027730	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00058096
A1 (Gain):	1.2559
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

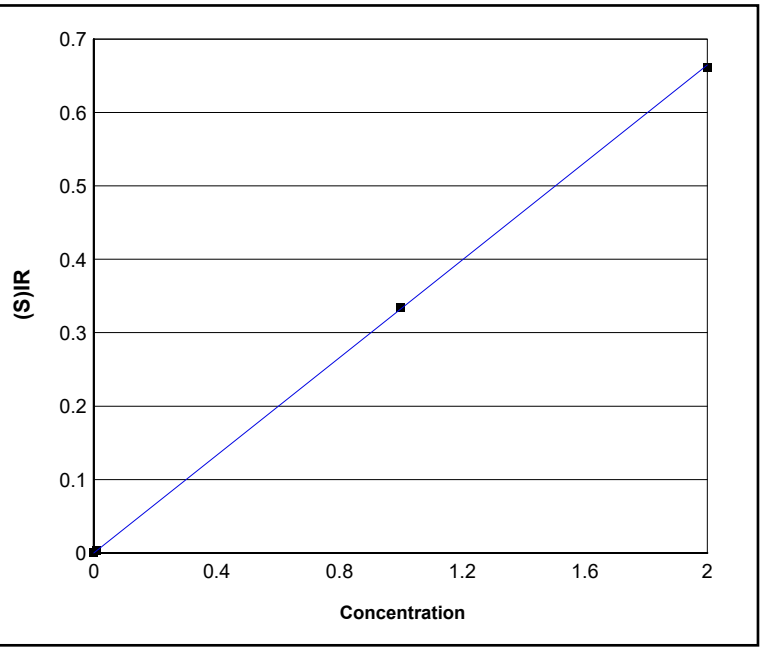
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000002519	-0.0000002519	0.00000	0.00058065	0.000057220	1
IC-7610998	0.0030000	0.0032432	0.00024322	8.1074	0.0046512	0.000025876	1
IC-7538313	1.0000	1.0060	0.0060180	0.60180	1.2612	0.0075724	1
IC-7485776	2.0000	1.9937	-0.0062616	-0.31308	2.4988	0.021176	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.000023533
A1 (Gain):	0.049845
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

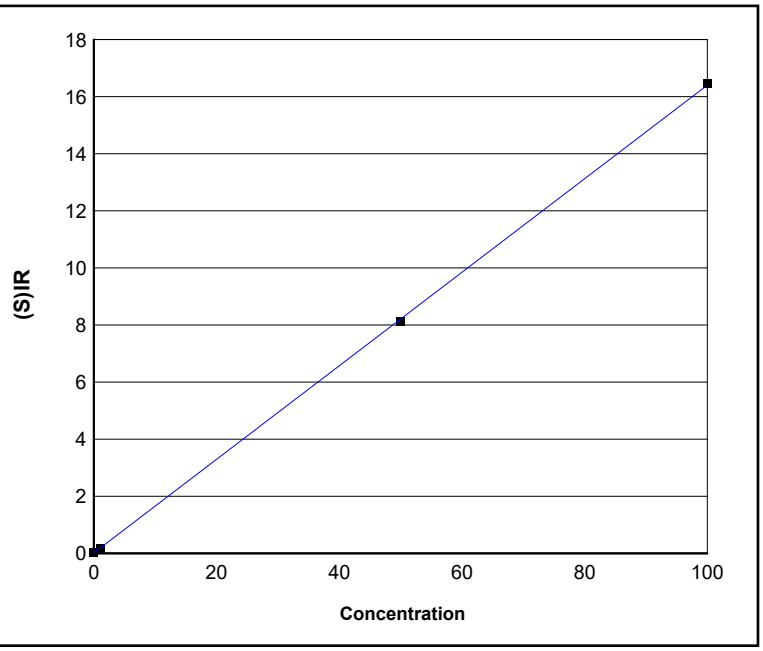
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000004173	-0.0000004173	0.00000	0.000023512	0.000026249	1
IC-7610998	0.0030000	0.0034254	0.00042539	14.180	0.00019427	0.000019671	1
IC-7538313	1.0000	0.99504	-0.0049563	-0.49563	0.049621	0.00021209	1
IC-7485776	2.0000	2.0045	0.0045309	0.22655	0.099939	0.00010984	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00012063
A1 (Gain):	0.33222
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

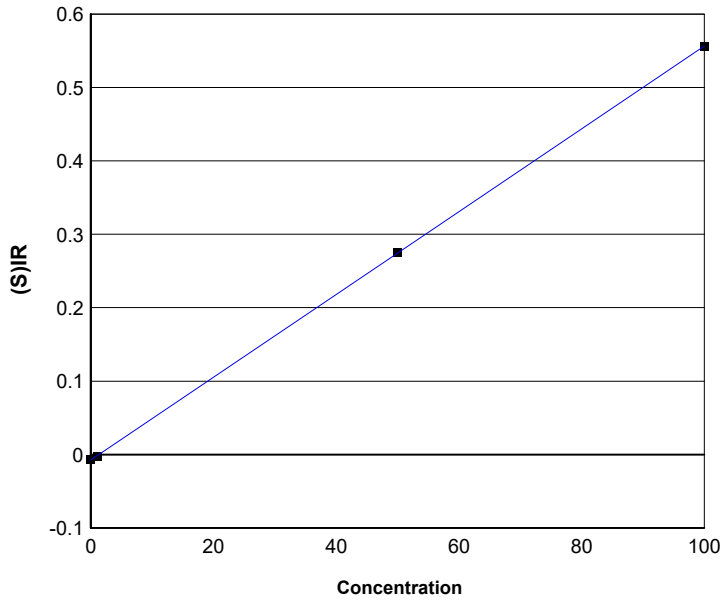
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000004767	-0.0000004767	0.00000	0.00012047	0.000058058	1
IC-7610998	0.010000	0.010441	0.00044052	4.4052	0.0035892	0.000045719	1
IC-7538313	1.0000	1.0077	0.0076806	0.76806	0.33490	0.00012692	1
IC-7485776	2.0000	1.9919	-0.0081211	-0.40605	0.66187	0.0013788	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.015478
A1 (Gain):	0.16383
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

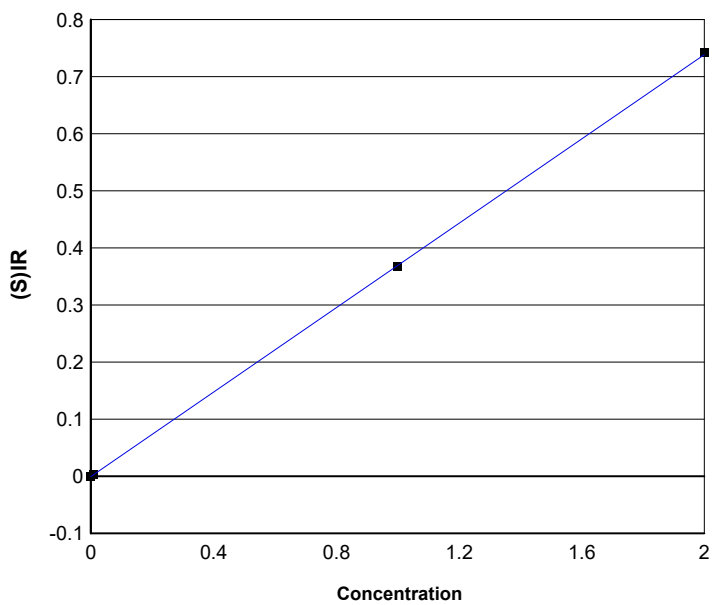
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	-0.000023543	-0.000023543	0.00000	0.015474	0.00011324	1
IC-7610998	1.0000	1.0279	0.027905	2.7905	0.18388	0.0018255	1
IC-7538313	50.000	49.592	-0.40834	-0.81668	8.1400	0.014160	1
IC-7485776	100.00	100.38	0.38044	0.38044	16.461	0.072541	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.0073844
A1 (Gain):	0.0056382
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

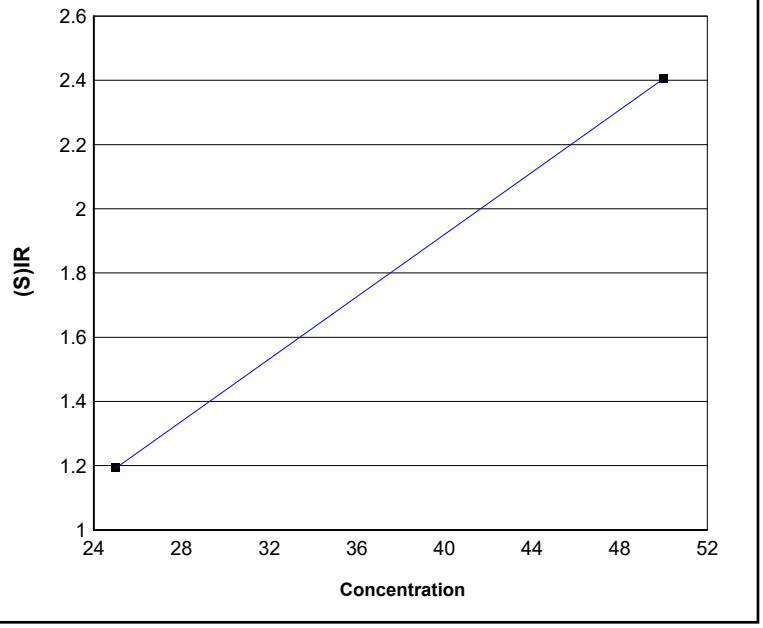
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.00015203	0.00015203	0.00000	-0.0073836	0.0010818	1
IC-7610998	1.0000	0.84489	-0.15511	-15.511	-0.0026208	0.0012973	1
IC-7538313	50.000	50.153	0.15334	0.30667	0.27539	0.00016542	1
IC-7485776	100.00	100.00	0.0017748	0.0017748	0.55645	0.0016480	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00040635
A1 (Gain):	0.36958
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

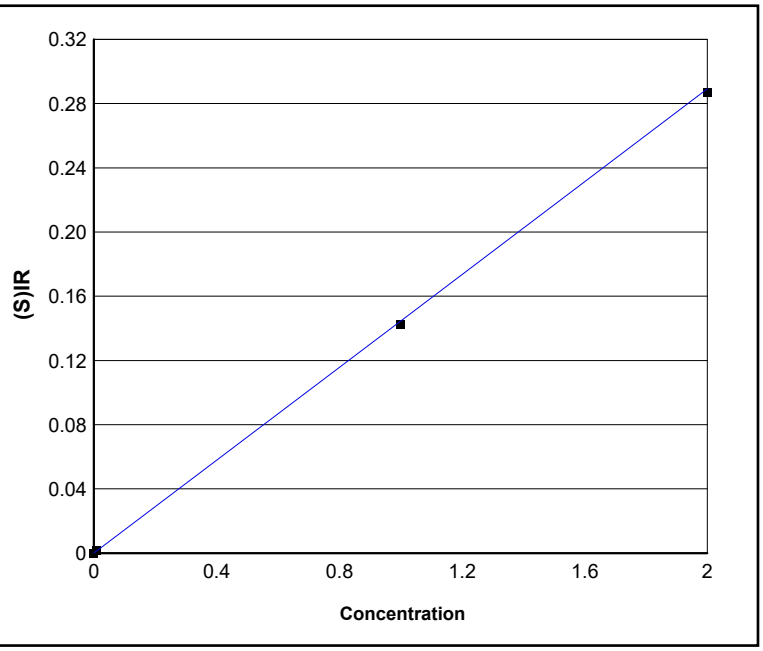
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000003435	0.0000003435	0.00000	-0.00040622	0.000087408	1
IC-7610998	0.010000	0.0096851	-0.00031487	-3.1487	0.0031732	0.000022121	1
IC-7538313	1.0000	0.99397	-0.0060346	-0.60346	0.36708	0.00018234	1
IC-7485776	2.0000	2.0063	0.0063494	0.31747	0.74137	0.0013177	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.01940
A1 (Gain):	0.04849
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

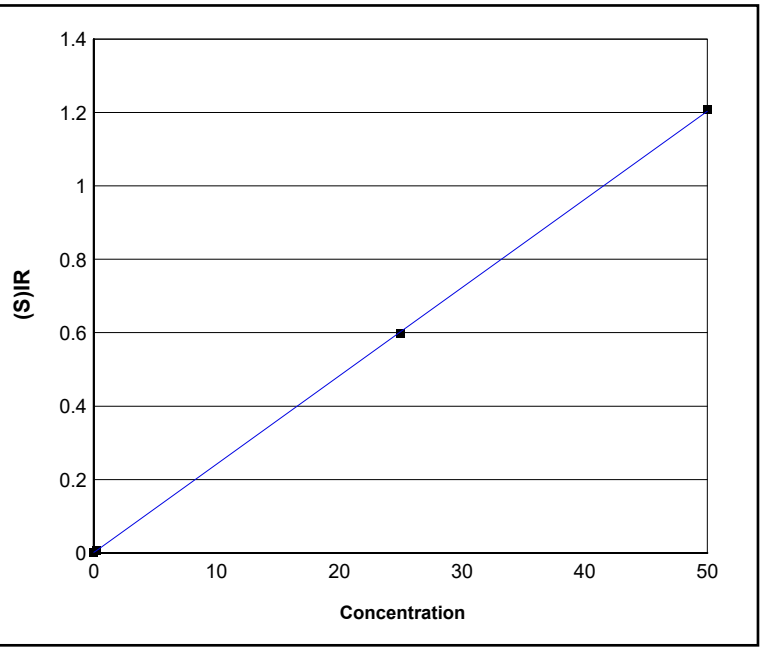
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7485776	50.00	50.00	0.0000000000	0.0000000000	2.405	0.004165	1
IC-7538313	25.00	25.00	0.0000000000	0.0000000000	1.193	0.0004778	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.000085778
A1 (Gain):	0.14457
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

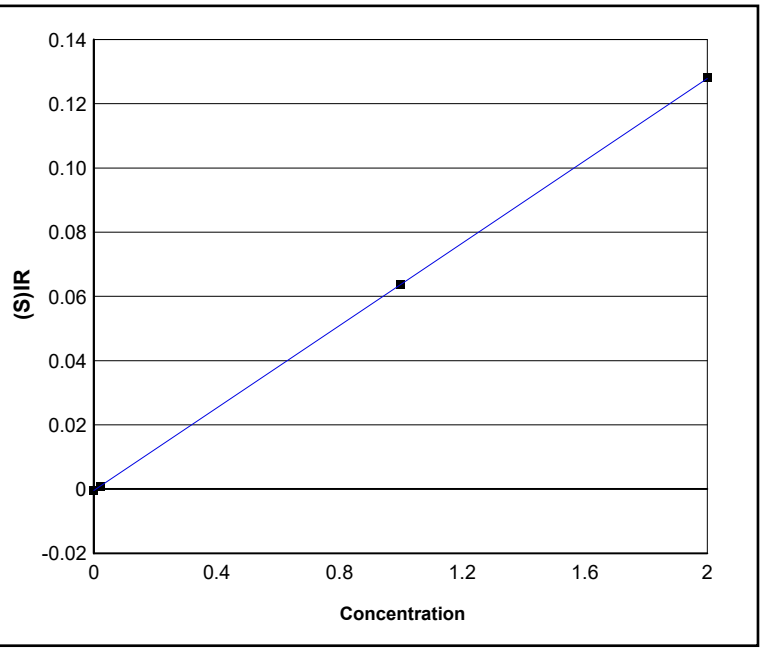
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000071	-0.0000000071	0.00000	0.000085777	0.000065673	1
IC-7610998	0.010000	0.010024	0.000024322	0.24322	0.0015199	0.000096116	1
IC-7538313	1.0000	0.99659	-0.0034140	-0.34140	0.14274	0.00022820	1
IC-7485776	2.0000	2.0034	0.0033897	0.16948	0.28688	0.00063633	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0015522
A1 (Gain):	0.024045
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

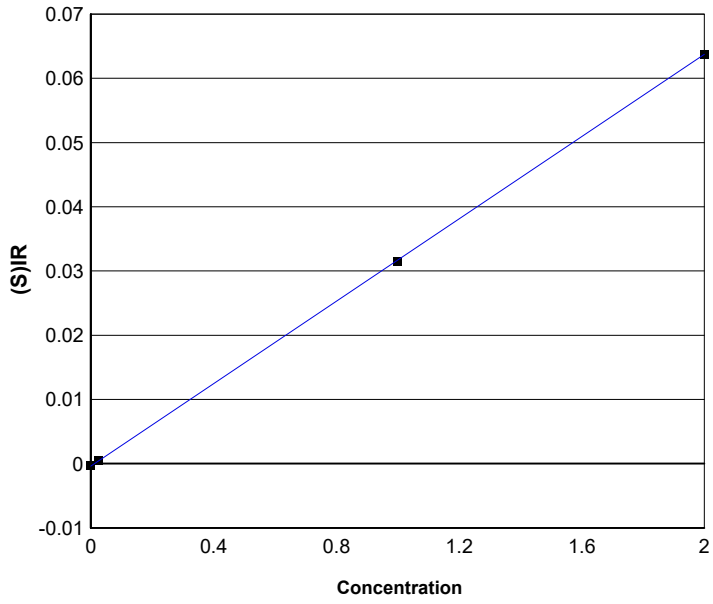
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000062759	-0.0000062759	0.00000	0.0015520	0.000020238	1
IC-7610998	0.20000	0.20706	0.0070559	3.5280	0.0065307	0.000010627	1
IC-7538313	25.000	24.812	-0.18795	-0.75182	0.59815	0.00020466	1
IC-7485776	50.000	50.181	0.18090	0.36180	1.2081	0.0025320	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00047715
A1 (Gain):	0.064152
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

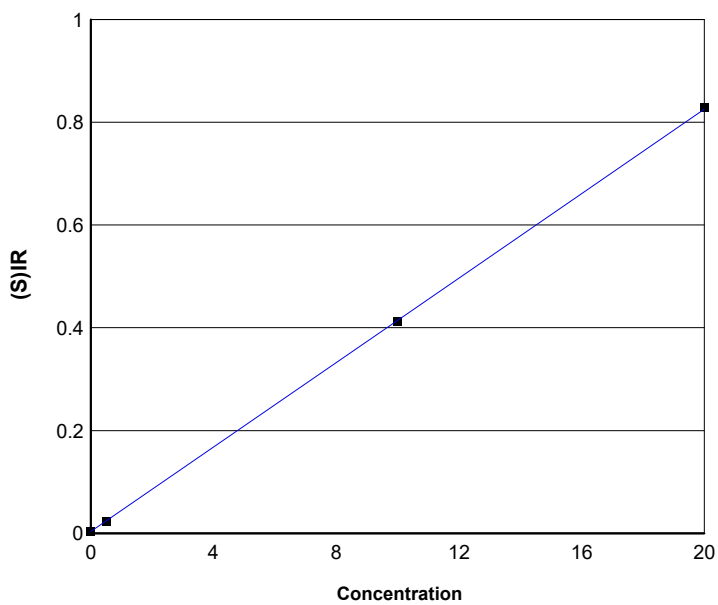
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000010065	-0.0000010065	0.00000	-0.00047721	0.000010253	1
IC-7610998	0.020000	0.021032	0.0010321	5.1606	0.00087570	0.0000054371	1
IC-7538313	1.0000	0.99847	-0.0015298	-0.15298	0.063820	0.000040864	1
IC-7485776	2.0000	2.0005	0.00049872	0.024936	0.12835	0.000041283	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00036089
A1 (Gain):	0.032048
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

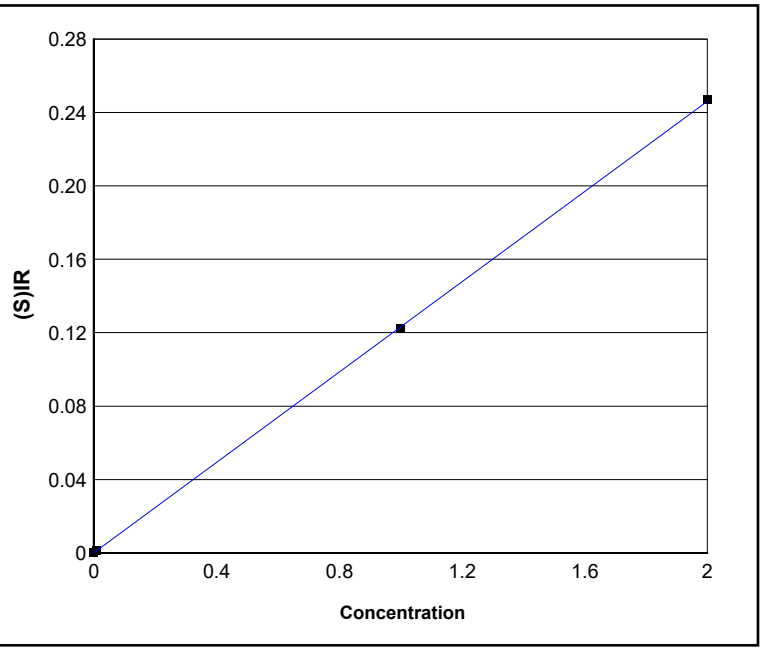
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000014951	-0.0000014951	0.00000	-0.00036094	0.000036896	1
IC-7610998	0.025000	0.026546	0.0015461	6.1845	0.00048961	0.0000042605	1
IC-7538313	1.0000	0.99746	-0.0025377	-0.25377	0.031546	0.0000051578	1
IC-7485776	2.0000	2.0010	0.00098910	0.049455	0.063646	0.00022661	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0036230
A1 (Gain):	0.041098
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

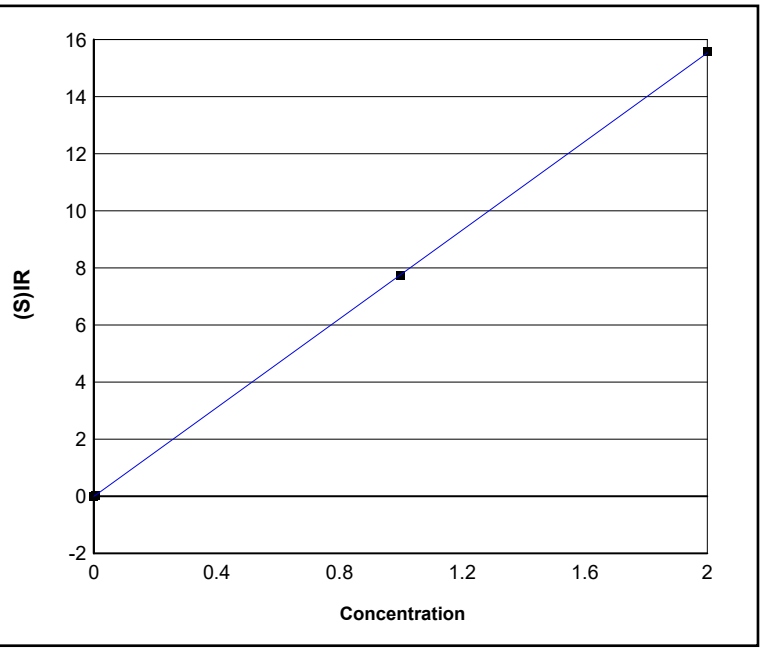
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.000026454	0.000026454	0.00000	0.0036241	0.0012838	1
IC-7610998	0.50000	0.47427	-0.025728	-5.1455	0.023115	0.00052948	1
IC-7538313	10.000	9.9452	-0.054780	-0.54780	0.41235	0.0027314	1
IC-7485776	20.000	20.081	0.080508	0.40254	0.82889	0.00038957	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00013867
A1 (Gain):	0.12300
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

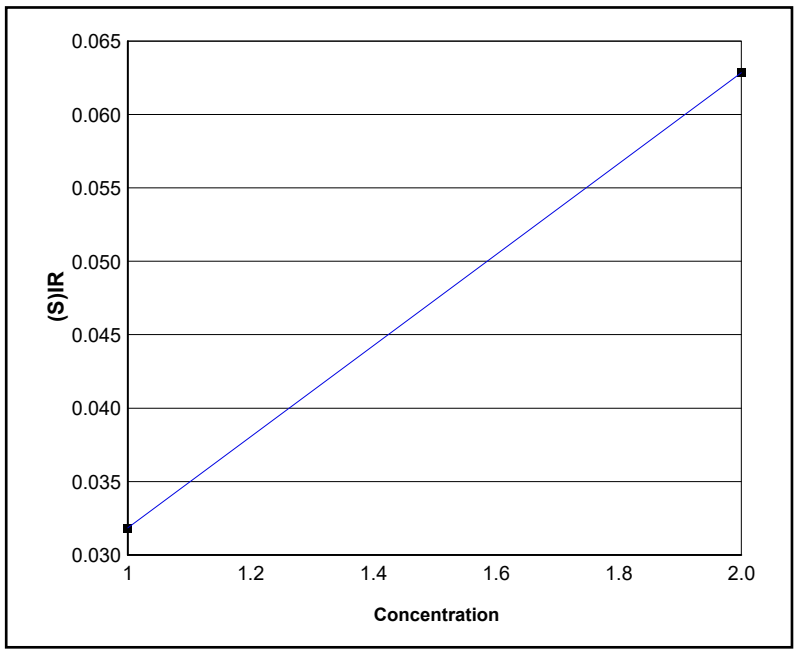
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000007586	0.0000007586	0.00000	0.00013876	0.0000045026	1
IC-7610998	0.010000	0.0092791	-0.00072095	-7.2095	0.0012800	0.000034575	1
IC-7538313	1.0000	0.99176	-0.0082435	-0.82435	0.12212	0.00044434	1
IC-7485776	2.0000	2.0090	0.0089644	0.44822	0.24724	0.00047500	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0021959
A1 (Gain):	7.7649
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

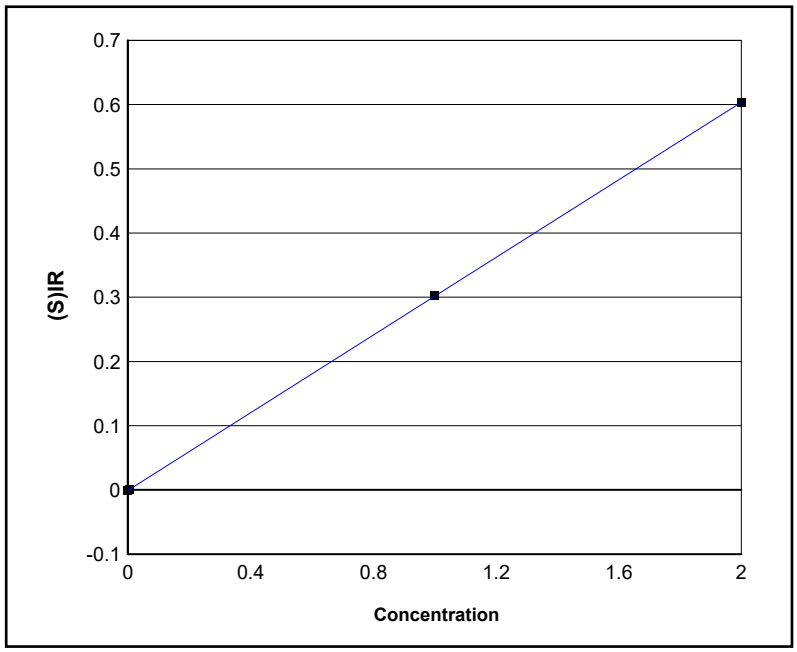
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000001782	-0.0000001782	0.00000	-0.0021973	0.00077184	1
IC-7610998	0.0050000	0.0051915	0.00019146	3.8293	0.038115	0.00016353	1
IC-7538313	1.0000	0.99489	-0.0051103	-0.51103	7.7230	0.021243	1
IC-7485776	2.0000	2.0049	0.0049189	0.24594	15.566	0.021083	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	0.0008224
A1 (Gain):	0.03102
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

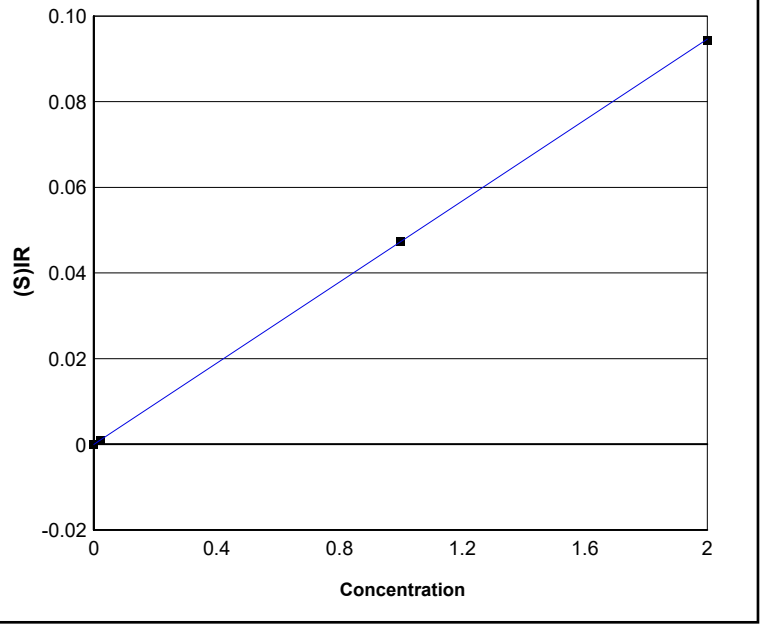
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7485776	2.000	2.000	0.0000000000	0.0000000000	0.06286	0.001030	1
IC-7538313	1.000	1.000	0.0000000000	0.0000000000	0.03184	0.0003140	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00081359
A1 (Gain):	0.30228
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

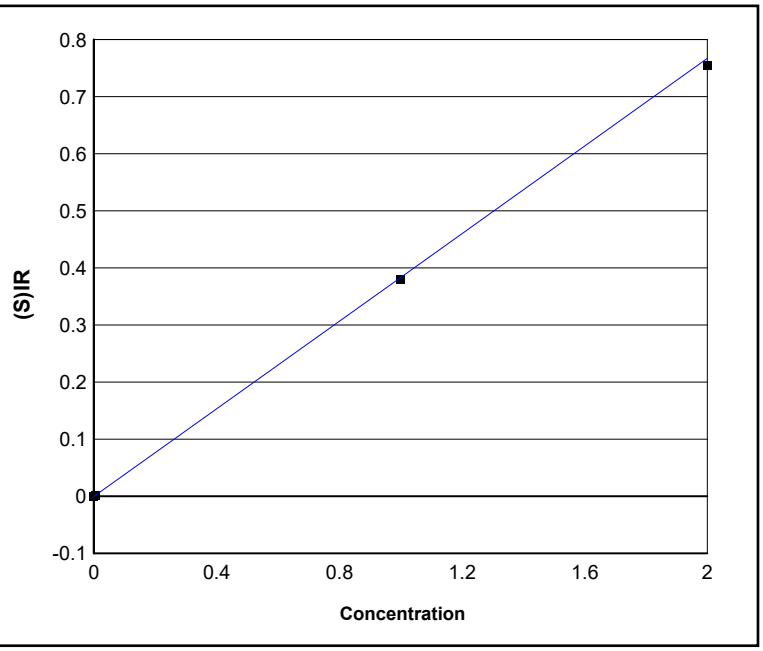
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000724	0.0000000724	0.00000	-0.00081357	0.000052701	1
IC-7610998	0.0050000	0.0049231	-0.000076938	-1.5388	0.00067800	0.000031546	1
IC-7538313	1.0000	1.0018	0.0017563	0.17563	0.30234	0.0015711	1
IC-7485776	2.0000	1.9983	-0.0016793	-0.083966	0.60393	0.0042034	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000039365
A1 (Gain):	0.047335
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

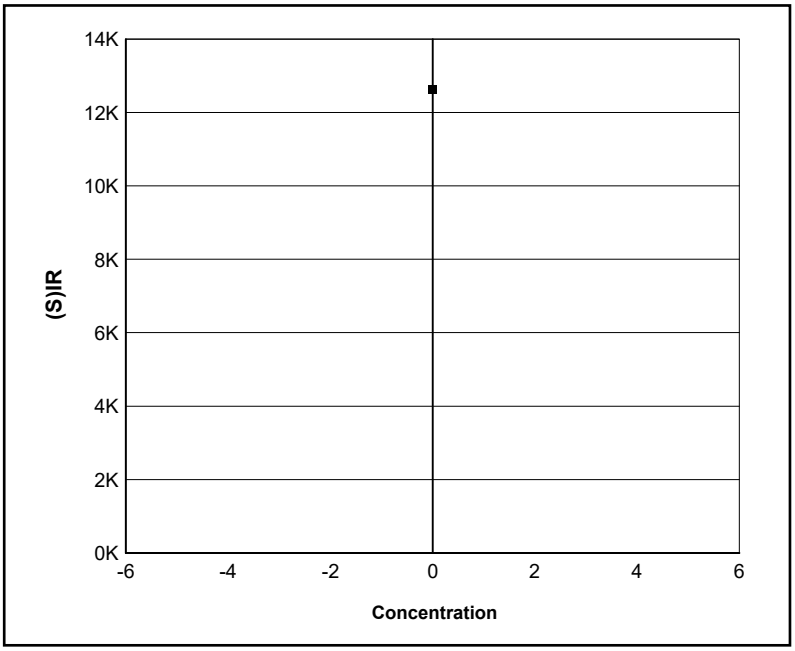
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000009738	0.0000009738	0.00000	-0.000039319	0.000024704	1
IC-7610998	0.020000	0.018985	-0.0010153	-5.0763	0.00085877	0.000025125	1
IC-7538313	1.0000	1.0031	0.0031308	0.31308	0.047369	0.000025761	1
IC-7485776	2.0000	1.9979	-0.0021145	-0.10572	0.094381	0.000042767	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00020899
A1 (Gain):	0.38366
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

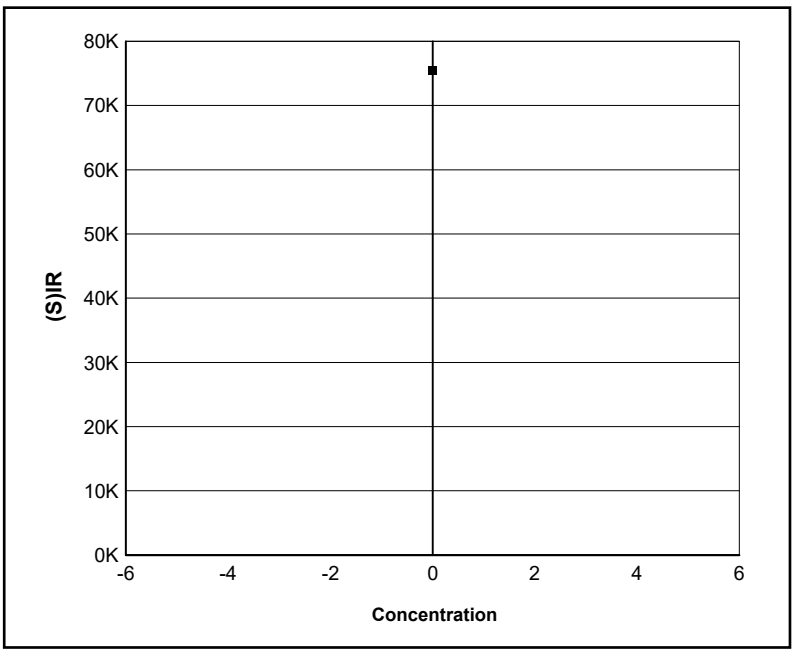
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000000973	-0.0000000973	0.00000	-0.00020903	0.000054396	1
IC-7610998	0.0050000	0.0050894	0.000089373	1.7875	0.0016837	0.000098859	1
IC-7538313	1.0000	1.0032	0.0032424	0.32424	0.37887	0.0022893	1
IC-7485776	2.0000	1.9967	-0.0033303	-0.16651	0.75418	0.0043773	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 11:57:24AM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

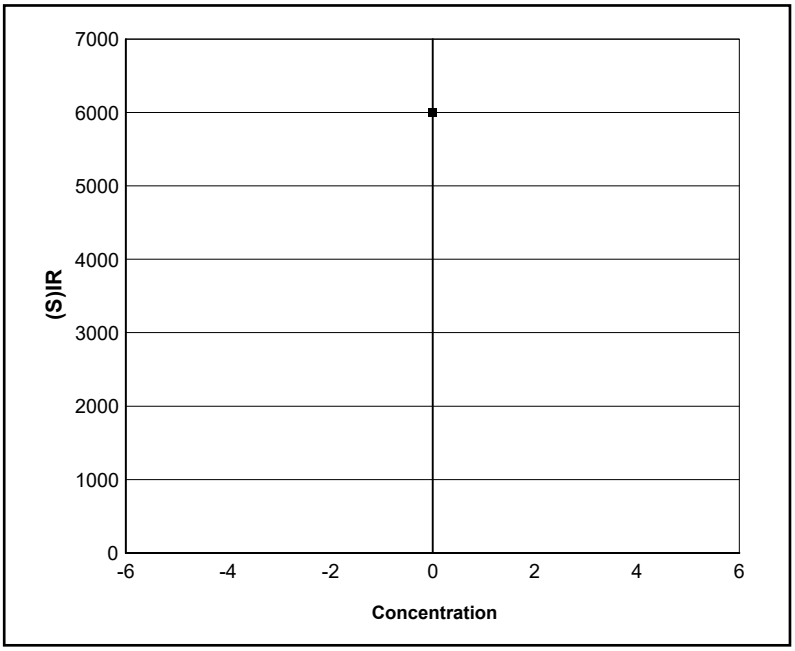
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000			0.0000	12,640	23.38	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 11:57:24AM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

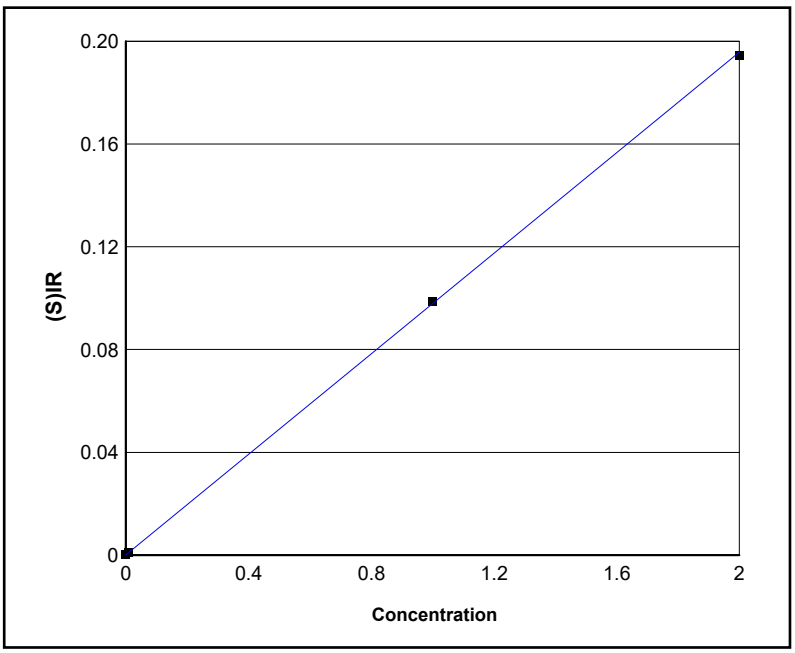
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000			0.0000	75,500	337.3	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 11:57:24AM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

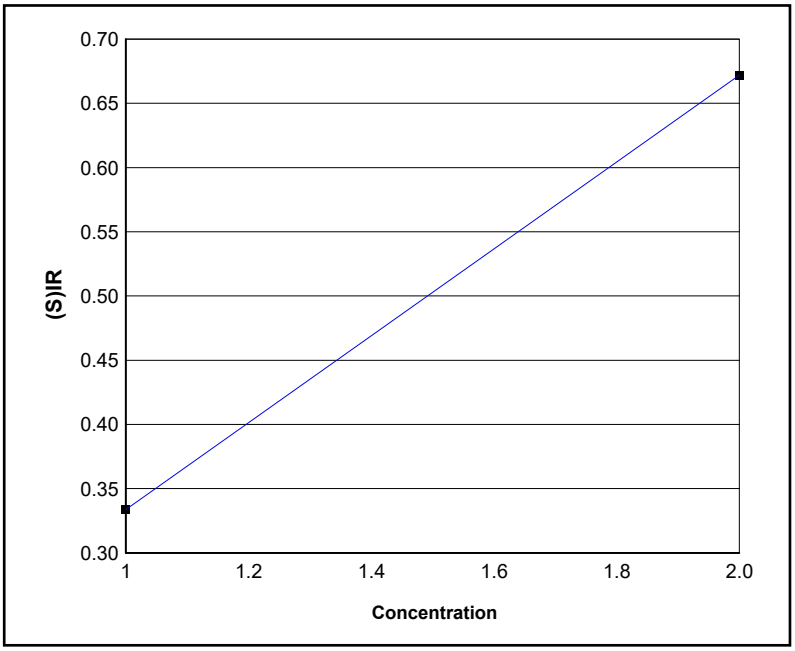
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.0000			0.0000	6,003	8.000	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00011353
A1 (Gain):	0.097826
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7506043	0.00000	0.0000004830	-0.0000004830	0.00000	0.00011348	0.000013897	1
IC-7610998	0.010000	0.010438	0.00043831	4.3831	0.0011343	0.0000083809	1
IC-7538313	1.0000	1.0094	0.0093707	0.93707	0.098776	0.00062080	1
IC-7485776	2.0000	1.9902	-0.0098092	-0.49046	0.19465	0.00081494	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	10/8/2023 12:08:15PM
Date of Fit:	10/8/2023 12:56:45PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.004635
A1 (Gain):	0.3383
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7485776	2.000	2.000	0.0000000000	0.0000000000	0.6720	0.0009435	1
IC-7538313	1.000	1.000	0.0000000000	0.0000000000	0.3337	0.001113	1

Sample Name: ICIS-7506043 Acquired: 10/8/2023 11:53:46 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00188**	**.00155**	**-.00011**	**.00064**	**.01044**
Stddev	.00002	.00071	.00004	.00001	.00065
%RSD	1.2409	45.852	35.756	2.0629	6.1820
#1	-.00189	.00105	-.00014	.00063	.00998
#2	-.00186	.00206	-.00008	.00065	.01089

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00265**	**-.00634**	**.00590**	**.00022**	**.0008**
Stddev	.00000	.00053	.00065	.00013	.0016
%RSD	.12523	8.3715	11.011	59.002	187.1
#1	.00265	-.00596	.00544	.00031	-.0003
#2	.00264	-.00671	.00636	.00013	.0019

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00011**	**.00036**	**-.00903**	**.00065**	**.00079**
Stddev	.00018	.00002	.00023	.00006	.00055
%RSD	170.82	4.4419	2.4955	8.6440	69.866
#1	.00023	.00037	-.00919	.00069	.00118
#2	-.00002	.00035	-.00887	.00061	.00040

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00854**	**.00334**	**-.00003**	**.00058**	**.00002**
Stddev	.00311	.00294	.00001	.00006	.00003
%RSD	36.432	88.037	22.415	9.8546	111.64
#1	-.01075	.00542	-.00004	.00054	.00000
#2	-.00634	.00126	-.00003	.00062	.00004

Sample Name: ICIS-7506043 Acquired: 10/8/2023 11:53:46 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00012**	**.01547**	**-.00738**	**-.00041**	**.00009**
Stddev	.00006	.00011	.00108	.00009	.00007
%RSD	48.194	.73176	14.651	21.517	76.563
#1	.00016	.01555	-.00662	-.00047	.00013
#2	.00008	.01539	-.00815	-.00034	.00004

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00155**	**-.00048**	**-.00036**	**.00362**	**.00014**
Stddev	.00002	.00001	.00004	.00128	.00000
%RSD	1.3040	2.1485	10.222	35.425	3.2449
#1	.00154	-.00048	-.00033	.00453	.00014
#2	.00157	-.00047	-.00039	.00272	.00014

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00220**	**-.00081**	**-.00004**	**-.00021**	**.00011**
Stddev	.00077	.00005	.00002	.00005	.00001
%RSD	35.127	6.4777	62.831	26.023	12.246
#1	-.00274	-.00085	-.00006	-.00017	.00012
#2	-.00165	-.00078	-.00002	-.00025	.00010

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13480.**	**12641.**	**75505.**	**6002.9**
Stddev	25.	23.	337.	8.0
%RSD	.18416	.18495	.44670	.13327
#1	13463.	12624.	75743.	6008.5
#2	13498.	12657.	75266.	5997.2

Sample Name: IC-7610998 Acquired: 10/8/2023 11:57:31 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00066**	**.00690**	**.00057**	**.00523**	**.01670**
Stddev	.00007	.00045	.00002	.00013	.00137
%RSD	10.529	6.4611	3.6923	2.4495	8.2247
#1	-.00071	.00721	.00058	.00532	.01573
#2	-.00061	.00658	.00055	.00513	.01767

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02580**	**.00478**	**.10676**	**.00327**	**.00325**
Stddev	.00026	.00069	.00030	.00011	.00005
%RSD	1.0202	14.403	.28487	3.4360	1.4872
#1	.02561	.00527	.10697	.00335	.00329
#2	.02599	.00430	.10654	.00319	.00322

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00143**	**-.00697**	**.00715**	**.00264**	**.01669**
Stddev	.00001	.00010	.00046	.00027	.00138
%RSD	1.0469	1.4657	6.4964	10.059	8.2715
#1	.00144	-.00689	.00748	.00283	.01571
#2	.00142	-.00704	.00682	.00245	.01766

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03054**	**.00632**	**.00465**	**.00019**	**.00359**
Stddev	.00262	.00010	.00003	.00002	.00005
%RSD	8.5691	1.6585	.55633	10.126	1.2738
#1	.03239	.00639	.00467	.00021	.00362
#2	.02869	.00624	.00463	.00018	.00356

Sample Name: IC-7610998 Acquired: 10/8/2023 11:57:31 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.18388**	**-.00262**	**.00317**	**.00152**	**.00653**
Stddev	.00183	.00130	.00002	.00010	.00001
%RSD	.99275	49.500	.69710	6.3237	.16272
#1	.18259	-.00354	.00316	.00159	.00652
#2	.18517	-.00170	.00319	.00145	.00654

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00088**	**.00049**	**.02311**	**.00128**	**.03812**
Stddev	.00001	.00000	.00053	.00003	.00016
%RSD	.62088	.87018	2.2907	2.7012	.42904
#1	.00088	.00049	.02349	.00130	.03800
#2	.00087	.00049	.02274	.00126	.03823

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00068**	**.00086**	**.00168**	**.00113**
Stddev	.00003	.00003	.00010	.00001
%RSD	4.6527	2.9257	5.8716	.73884
#1	.00070	.00088	.00161	.00114
#2	.00066	.00084	.00175	.00113

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13380.**	**12675.**	**74987.**	**5972.6**
Stddev	7.	4.	525.	25.3
%RSD	.05381	.02998	.70078	.42373
#1	13375.	12673.	74615.	5954.7
#2	13385.	12678.	75358.	5990.5

Sample Name: IC-7538313 Acquired: 10/8/2023 12:01:15 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.18937**	**1.3045**	**.04878**	**.24228**	**4.2852**
Stddev	.00141	.0036	.00005	.00014	.0115
%RSD	.74625	.27405	.09410	.05646	.26925
#1	.19037	1.3071	.04881	.24238	4.2934
#2	.18837	1.3020	.04875	.24219	4.2771

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.213**	**5.9291**	**9.7635**	**1.3807**	**.0343**
Stddev	.065	.0067	.0013	.0019	.0001
%RSD	.58182	.11227	.01372	.13922	.4153
#1	11.260	5.9338	9.7644	1.3821	.0342
#2	11.167	5.9244	9.7625	1.3794	.0344

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.79336**	**.26806**	**.19719**	**6.1832**	**.44199**
Stddev	.00084	.00127	.00133	.0095	.00155
%RSD	.10525	.47239	.67450	.15295	.35040
#1	.79395	.26896	.19813	6.1899	.44308
#2	.79277	.26717	.19625	6.1766	.44089

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.2537**	**1.0505**	**1.5852**	**1.2612**	**.04962**
Stddev	.0114	.0002	.0096	.0076	.00021
%RSD	.50608	.02073	.60494	.60044	.42742
#1	2.2617	1.0507	1.5919	1.2665	.04947
#2	2.2456	1.0504	1.5784	1.2558	.04977

Sample Name: IC-7538313 Acquired: 10/8/2023 12:01:15 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.33490**	**8.1400**	**.27539**	**.36708**	**1.193**
Stddev	.00013	.0142	.00017	.00018	.001
%RSD	.03790	.17395	.06007	.04967	.0401
#1	.33499	8.1500	.27551	.36721	1.193
#2	.33481	8.1300	.27527	.36695	1.193

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.14274**	**.59815**	**.06382**	**.03155**	**.41235**
Stddev	.00023	.00020	.00004	.00001	.00273
%RSD	.15987	.03422	.06403	.01635	.66239
#1	.14290	.59829	.06385	.03155	.41428
#2	.14258	.59800	.06379	.03154	.41042

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12212**	**7.7230**	**.0318**	**.30234**	**.04737**
Stddev	.00044	.0212	.0003	.00157	.00003
%RSD	.36384	.27506	.9862	.51963	.05438
#1	.12244	7.7380	.0321	.30345	.04739
#2	.12181	7.7080	.0316	.30123	.04735

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**.37887**	**.09878**	**.3337**
Stddev	.00229	.00062	.0011
%RSD	.60425	.62850	.3336
#1	.38049	.09921	.3329
#2	.37725	.09834	.3345

Sample Name: IC-7538313 Acquired: 10/8/2023 12:01:15 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11758.**	**12248.**	**71694.**	**5904.8**
Stddev	21.	20.	131.	21.4
%RSD	.17521	.16721	.18244	.36241
#1	11744.	12233.	71601.	5889.7
#2	11773.	12262.	71786.	5919.9

Sample Name: IC-7485776 Acquired: 10/8/2023 12:04:49 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.37066**	**2.6276**	**.09804**	**.47742**	**8.6040**
Stddev	.00169	.0076	.00034	.00101	.0165
%RSD	.45645	.29022	.34197	.21059	.19209
#1	.37185	2.6330	.09780	.47671	8.6157
#2	.36946	2.6223	.09827	.47813	8.5923

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**21.971**	**11.825**	**19.731**	**2.7666**	**.0690**
Stddev	.017	.041	.062	.0029	.0015
%RSD	.07603	.34527	.31202	.10612	2.104
#1	21.959	11.854	19.774	2.7645	.0680
#2	21.983	11.796	19.687	2.7686	.0700

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6115**	**.52940**	**.40169**	**12.345**	**.88589**
Stddev	.0028	.00260	.00437	.019	.00333
%RSD	.17570	.49082	1.0878	.15495	.37554
#1	1.6095	.53124	.40478	12.359	.88824
#2	1.6135	.52757	.39860	12.332	.88353

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.5704**	**2.1190**	**3.1820**	**2.4988**	**.09994**
Stddev	.0167	.0084	.0028	.0212	.00011
%RSD	.36635	.39845	.08715	.84744	.10990
#1	4.5822	2.1250	3.1839	2.5137	.09986
#2	4.5586	2.1131	3.1800	2.4838	.10002

Sample Name: IC-7485776 Acquired: 10/8/2023 12:04:49 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.66187**	**16.461**	**.55645**	**.74137**	**2.405**
Stddev	.00138	.073	.00165	.00132	.004
%RSD	.20832	.44069	.29617	.17774	.1732
#1	.66089	16.512	.55761	.74044	2.402
#2	.66284	16.409	.55528	.74230	2.408

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.28688**	**1.2081**	**.12835**	**.06365**	**.82889**
Stddev	.00064	.0025	.00004	.00023	.00039
%RSD	.22181	.20958	.03217	.35604	.04700
#1	.28643	1.2063	.12832	.06349	.82916
#2	.28733	1.2099	.12838	.06381	.82861

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.24724**	**15.566**	**.0629**	**.60393**	**.09438**
Stddev	.00047	.021	.0010	.00420	.00004
%RSD	.19212	.13544	1.638	.69600	.04531
#1	.24691	15.581	.0636	.60690	.09441
#2	.24758	15.551	.0621	.60096	.09435

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**.75418**	**.19465**	**.6720**
Stddev	.00438	.00081	.0009
%RSD	.58041	.41868	.1404
#1	.75728	.19522	.6726
#2	.75109	.19407	.6713

Sample Name: IC-7485776 Acquired: 10/8/2023 12:04:49 Type: Cal
Method: test(v73) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11164.**	**12046.**	**70096.**	**5802.5**
Stddev	1.	16.	17.	25.2
%RSD	.01077	.13490	.02402	.43438
#1	11163.	12034.	70108.	5784.7
#2	11165.	12057.	70084.	5820.3

Sample Name: ICV-7538312 Acquired: 10/8/2023 12:08:22 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.74058**	**37.711**	**.74489**	**.76461**	**.74438**
Stddev	.00378	.113	.00217	.00030	.00218
%RSD	.51047	.29986	.29156	.03947	.29237
#1	.74325	37.791	.74643	.76440	.74592
#2	.73790	37.631	.74335	.76483	.74284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.74237**	**37.985**	**.74765**	**.0121**	**.73427**
Stddev	.00051	.135	.00040	.0300	.00028
%RSD	.06867	.35460	.05416	247.7	.03847
#1	.74273	37.890	.74736	.0333	.73446
#2	.74201	38.080	.74793	-.0091	.73407
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76289**	**.72410**	**38.437**	**37.498**	**.73113**
Stddev	.00520	.00425	.070	.050	.00350
%RSD	.68212	.58686	.18185	.13331	.47843
#1	.76657	.72711	38.486	37.534	.72865
#2	.75921	.72110	38.387	37.463	.73360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-7538312 Acquired: 10/8/2023 12:08:22 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.935**	**.75420**	**.76771**	**37.626**	**.73292**
Stddev	.298	.00489	.00084	.095	.00037
%RSD	.78463	.64783	.10991	.25281	.05027
#1	38.145	.75766	.76711	37.559	.73318
#2	37.725	.75075	.76831	37.694	.73266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.39**	**.75252**	**19.059**	**.73126**	**.74645**
Stddev	.02	.00194	.011	.00118	.00520
%RSD	.1226	.25793	.05729	.16122	.69618
#1	19.38	.75115	19.051	.73043	.74278
#2	19.41	.75389	19.067	.73210	.75013
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4633**	**.73557**	**.74728**	**.0428**	**.74909**
Stddev	.0114	.00196	.00176	.0267	.00566
%RSD	.15276	.26631	.23580	62.45	.75494
#1	7.4552	.73419	.74853	.0239	.75309
#2	7.4713	.73696	.74604	.0616	.74509
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: ICV-7538312 Acquired: 10/8/2023 12:08:22 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.76058**	**.75457**	**.76688**	**.0121**
Stddev	.00241	.00678	.00652	.0012
%RSD	.31718	.89878	.85074	9.716
#1	.76228	.75937	.77149	.0129
#2	.75887	.74977	.76227	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12113.**	**12504.**	**72911.**	**5985.3**
Stddev	16.	1.	385.	55.4
%RSD	.13320	.00696	.52866	.92632
#1	12102.	12504.	72638.	6024.5
#2	12125.	12505.	73184.	5946.1

Sample Name: ICB-7506043 Acquired: 10/8/2023 12:11:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00125**	**-.00112**	**.00083**	**-.00003**
Stddev	.00049	.00127	.00078	.00031	.00002
%RSD	70.269	101.82	69.338	37.196	86.901
#1	.00105	.00215	-.00167	.00061	-.00005
#2	.00035	.00035	-.00057	.00104	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00111**	**-.00004**	**.0141**	**-.00003**
Stddev	.00008	.00262	.00002	.0071	.00010
%RSD	64.333	235.43	47.064	50.21	342.17
#1	.00018	-.00074	-.00005	.0091	-.00010
#2	.00007	.00297	-.00003	.0191	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00217**	**.00113**	**.04382**	**-.00090**
Stddev	.00018	.00028	.00290	.02375	.00052
%RSD	63.416	12.728	257.92	54.193	58.416
#1	-.00016	-.00236	-.00093	.02703	-.00127
#2	-.00041	-.00197	.00318	.06061	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7506043 Acquired: 10/8/2023 12:11:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00240**	**.00006**	**-.00010**	**-.00245**	**-.00021**
Stddev	.00001	.00008	.00025	.00189	.00046
%RSD	.29285	139.11	252.35	77.110	215.71
#1	.00240	.00000	.00008	-.00379	.00011
#2	.00239	.00012	-.00027	-.00112	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4184**	**-.00029**	**.00298**	**-.00034**	**-.00278**
Stddev	.0001	.00123	.00042	.00152	.00073
%RSD	.0234	422.01	14.076	443.71	26.072
#1	.4185	.00058	.00269	.00073	-.00329
#2	.4184	-.00116	.00328	-.00142	-.00227
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01456**	**.00014**	**-.00002**	**-.0248**	**.00035**
Stddev	.01378	.00025	.00009	.0052	.00041
%RSD	94.642	174.41	377.21	20.81	118.42
#1	-.00481	-.00003	.00004	-.0212	.00064
#2	-.02430	.00032	-.00008	-.0285	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7506043 Acquired: 10/8/2023 12:11:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00104**	**.00020**	**-.00007**	**.0123**
Stddev	.00008	.00015	.00019	.0002
%RSD	8.1508	72.020	284.36	1.890
#1	-.00098	.00031	-.00020	.0124
#2	-.00110	.00010	.00007	.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13526.**	**12695.**	**75310.**	**6056.5**
Stddev	8.	3.	196.	18.9
%RSD	.05944	.02183	.26036	.31263
#1	13532.	12693.	75449.	6069.8
#2	13521.	12697.	75171.	6043.1

Sample Name: ICVL-7610998 Acquired: 10/8/2023 12:15:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00658**	**.20400**	**.01333**	**.02031**	**.00209**
Stddev	.00017	.00445	.00059	.00031	.00004
%RSD	2.6431	2.1791	4.4534	1.5267	1.7898
#1	.00671	.20085	.01291	.02009	.00212
#2	.00646	.20714	.01375	.02053	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.51894**	**.00212**	**-.0142**	**.00369**
Stddev	.00012	.00288	.00003	.0368	.00013
%RSD	5.8810	.55554	1.5672	258.3	3.5146
#1	.00197	.52098	.00210	-.0402	.00360
#2	.00215	.51690	.00215	.0118	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**.00920**	**.05313**	**.54880**	**.02518**
Stddev	.00027	.00012	.00431	.02630	.00530
%RSD	6.9678	1.3552	8.1125	4.7919	21.058
#1	.00366	.00911	.05009	.56739	.02143
#2	.00404	.00928	.05618	.53020	.02893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-7610998 Acquired: 10/8/2023 12:15:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20329**	**.00310**	**.01066**	**1.0029**	**.00990**
Stddev	.00112	.00004	.00014	.0042	.00021
%RSD	.55213	1.4128	1.2866	.42050	2.0912
#1	.20408	.00313	.01057	.99995	.00975
#2	.20249	.00307	.01076	1.0059	.01005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4192**	**.00870**	**.21260**	**.02170**	**.02519**
Stddev	.0009	.00064	.00132	.00021	.00284
%RSD	.2246	7.4112	.62286	.94934	11.277
#1	.4185	.00824	.21166	.02184	.02720
#2	.4198	.00915	.21353	.02155	.02318
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46599**	**.00961**	**.00495**	F **-.0321**	**.00529**
Stddev	.00476	.00006	.00009	.0017	.00041
%RSD	1.0219	.61948	1.8372	5.183	7.7270
#1	.46936	.00966	.00501	-.0333	.00500
#2	.46262	.00957	.00488	-.0310	.00558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: ICVL-7610998 Acquired: 10/8/2023 12:15:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01882**	**.00500**	**.01009**	F **.0114**
Stddev	.00169	.00003	.00001	.0002
%RSD	8.9647	.66078	.09013	1.508
#1	.02001	.00502	.01010	.0115
#2	.01762	.00497	.01009	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13452.**	**12762.**	**76102.**	**6091.8**
Stddev	38.	27.	73.	36.0
%RSD	.28009	.21124	.09548	.59177
#1	13425.	12743.	76051.	6066.3
#2	13478.	12781.	76153.	6117.3

Sample Name: ICSA-7420389 Acquired: 10/8/2023 12:19:24 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**494.09**	**-.00499**	**.00004**	**.00122**
Stddev	.00007	2.08	.00115	.00014	.00003
%RSD	5.2368	.42150	23.095	384.62	2.4942
#1	.00135	495.57	-.00581	-.00006	.00120
#2	.00146	492.62	-.00418	.00013	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**468.02**	**.00011**	**.1000**	**-.00071**
Stddev	.00000	2.57	.00002	.0114	.00015
%RSD	20.243	.54995	14.472	11.39	20.462
#1	.00000	466.20	.00010	.0920	-.00061
#2	.00001	469.84	.00012	.1081	-.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**-.00260**	**191.25**	**.10515**	**-.01587**
Stddev	.00012	.00055	1.15	.01940	.00066
%RSD	10.346	21.168	.60285	18.453	4.1442
#1	-.00124	-.00221	192.06	.11888	-.01633
#2	-.00107	-.00299	190.43	.09143	-.01540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7420389 Acquired: 10/8/2023 12:19:24 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**507.49**	**.00013**	**-.00073**	**.14265**	**-.00035**
Stddev	5.36	.00006	.00011	.00277	.00032
%RSD	1.0562	43.668	15.612	1.9393	89.254
#1	511.28	.00009	-.00081	.14069	-.00013
#2	503.70	.00017	-.00065	.14460	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4697**	**.00136**	**.03441**	**-.00016**	**-.00159**
Stddev	.0035	.00164	.00202	.00188	.00201
%RSD	.7396	120.15	5.8648	1157.8	125.94
#1	.4672	.00252	.03299	.00117	-.00017
#2	.4721	.00021	.03584	-.00149	-.00301
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01504**	**-.00068**	**.00345**	**.1420**	**.00364**
Stddev	.01021	.00048	.00009	.0150	.00010
%RSD	67.862	70.425	2.4754	10.58	2.8849
#1	-.02226	-.00101	.00351	.1526	.00371
#2	-.00782	-.00034	.00339	.1314	.00356
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7420389 Acquired: 10/8/2023 12:19:24 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00192**	**.00047**	**.00195**	**.0144**
Stddev	.00019	.00017	.00037	.0008
%RSD	10.167	35.925	19.249	5.223
#1	.00178	.00035	.00168	.0149
#2	.00205	.00060	.00221	.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10435.**	**11594.**	**67057.**	**5949.0**
Stddev	7.	18.	55.	3.7
%RSD	.06864	.15322	.08235	.06286
#1	10430.	11581.	67018.	5946.4
#2	10440.	11607.	67096.	5951.6

Sample Name: ICSAB-7538391 Acquired: 10/8/2023 12:23:12 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52718**	**485.90**	**.48099**	**4.8474**	**.50495**
Stddev	.00007	1.06	.00200	.0102	.00126
%RSD	.01277	.21717	.41657	.21026	.24914
#1	.52723	486.64	.48241	4.8546	.50584
#2	.52713	485.15	.47958	4.8401	.50406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24295**	**464.51**	**.50230**	**.0407**	**.49771**
Stddev	.00055	2.26	.00198	.0275	.00159
%RSD	.22620	.48613	.39436	67.71	.31965
#1	.24334	462.91	.50370	.0601	.49884
#2	.24256	466.11	.50090	.0212	.49659
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50201**	**.50412**	**188.93**	**5.2019**	**-.01541**
Stddev	.00262	.00068	.09	.0507	.00100
%RSD	.52176	.13544	.04934	.97519	6.4870
#1	.50016	.50460	189.00	5.2378	-.01470
#2	.50386	.50363	188.87	5.1660	-.01611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Sample Name: ICSAB-7538391 Acquired: 10/8/2023 12:23:12 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**499.09**	**.47656**	**.48957**	**5.2017**	**.48987**
Stddev	1.63	.00052	.00091	.0149	.00248
%RSD	.32612	.10972	.18569	.28548	.50542
#1	497.93	.47619	.49022	5.2122	.49162
#2	500.24	.47693	.48893	5.1912	.48811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.372**	**.50022**	**.07866**	**.49111**	**.48008**
Stddev	.020	.00012	.00262	.00026	.00630
%RSD	.3750	.02386	3.3272	.05218	1.3117
#1	5.387	.50031	.08051	.49093	.47563
#2	5.358	.50014	.07681	.49129	.48454
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7444**	**.48688**	**.49505**	**.1505**	**.49865**
Stddev	.0056	.00125	.00071	.0004	.00097
%RSD	.11808	.25579	.14312	.2868	.19470
#1	4.7404	.48776	.49556	.1502	.49796
#2	4.7484	.48600	.49455	.1508	.49933
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: ICSAB-7538391 Acquired: 10/8/2023 12:23:12 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.48678**	**.50174**	**.46908**	**.0162**
Stddev	.00100	.00216	.00020	.0027
%RSD	.20563	.43039	.04295	16.46
#1	.48607	.50021	.46893	.0143
#2	.48748	.50326	.46922	.0180
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10301.**	**11539.**	**66106.**	**5912.7**
Stddev	27.	33.	274.	28.1
%RSD	.25782	.29027	.41453	.47470
#1	10282.	11515.	66300.	5892.9
#2	10319.	11563.	65912.	5932.6

Sample Name: ICEX1 Acquired: 10/8/2023 12:26:58 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.06803**	F **5.5684**	**.00325**	**.00002**
Stddev	.00091	.00117	.0201	.00054	.00002
%RSD	325.69	1.7270	.36049	16.756	91.709
#1	-.00092	-.06886	5.5826	.00364	.00003
#2	.00036	-.06719	5.5543	.00287	.00001
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			5.5000		
Low Limit			4.5000		

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00043**	**-.00012**	**-.0363**	**-.00000**
Stddev	.00013	.00364	.00000	.0213	.00011
%RSD	37.193	854.23	2.4898	58.57	8518.9
#1	.00044	-.00215	-.00012	-.0213	-.00008
#2	.00026	.00300	-.00012	-.0514	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**26.320**	**-.00038**	**.10213**	**.00033**
Stddev	.00017	.165	.00012	.00949	.00247
%RSD	15.917	.62816	31.152	9.2936	752.19
#1	.00097	26.437	-.00046	.10884	-.00142
#2	.00122	26.203	-.00030	.09542	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 10/8/2023 12:26:58 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**-.00006**	**-.00132**	**.01057**	**-.00009**
Stddev	.00270	.00002	.00016	.01469	.00002
%RSD	466.33	32.635	12.241	139.02	22.192
#1	-.00133	-.00007	-.00120	.00018	-.00011
#2	.00249	-.00004	-.00143	.02096	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.6587**	**-.00275**	**.00933**	**-.00011**	**.00050**
Stddev	.0026	.00025	.00117	.00104	.00050
%RSD	.3995	8.9546	12.526	976.43	101.64
#1	.6606	-.00292	.01015	.00063	.00085
#2	.6569	-.00258	.00850	-.00084	.00014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01630**	**.00025**	**.00016**	**-.0464**	**.00002**
Stddev	.00568	.00040	.00014	.0009	.00002
%RSD	34.859	157.11	90.842	1.995	90.134
#1	-.01228	.00053	.00006	-.0457	.00003
#2	-.02032	-.00003	.00026	-.0470	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 10/8/2023 12:26:58 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00658**	F **5.6825**	**.00060**	**.0118**
Stddev	.00000	.0117	.00022	.0025
%RSD	.03933	.20612	37.624	21.30
#1	-.00658	5.6907	.00044	.0136
#2	-.00658	5.6742	.00075	.0100
Check ?	Chk Pass	Chk Fail	Chk Pass	None
High Limit		5.5000		
Low Limit		4.5000		
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13524.**	**12772.**	**75174.**	**6108.1**
Stddev	19.	15.	26.	39.0
%RSD	.14012	.11988	.03486	.63771
#1	13537.	12783.	75156.	6080.6
#2	13510.	12761.	75193.	6135.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.32%	101.04%	99.562%	101.75%
Range				

Sample Name: ICEX2 Acquired: 10/8/2023 12:30:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00176**	**.01388**	**.00107**	**.00268**	**.00009**
Stddev	.00001	.02485	.00002	.00008	.00001
%RSD	.78404	178.96	1.9259	3.0526	12.261
#1	-.00175	-.00369	.00105	.00263	.00010
#2	-.00177	.03145	.00108	.00274	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00532**	**.00135**	**-.0034**	**.00196**
Stddev	.00007	.00021	.00008	.0093	.00011
%RSD	132.45	3.8745	6.0190	273.4	5.4271
#1	.00010	.00546	.00140	-.0100	.00203
#2	.00000	.00517	.00129	.0032	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**-.00002**	**.00090**	**.01983**	**9.4362**
Stddev	.00009	.00073	.00274	.08684	.0822
%RSD	7.1867	3700.3	304.37	437.96	.87083
#1	.00126	.00050	-.00104	.08123	9.4943
#2	.00114	-.00054	.00284	-.04157	9.3781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 10/8/2023 12:30:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04171**	**.00003**	**.00131**	**.00478**	**.00147**
Stddev	.00036	.00007	.00014	.01263	.00016
%RSD	.87023	238.13	10.343	264.22	10.925
#1	-.04197	.00008	.00141	-.00415	.00135
#2	-.04145	-.00002	.00122	.01371	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4009**	**.00475**	**.01602**	**.00914**	**-.00539**
Stddev	.0007	.00040	.00058	.00250	.00225
%RSD	.1791	8.4074	3.6046	27.327	41.637
#1	.4004	.00503	.01561	.01090	-.00698
#2	.4014	.00446	.01643	.00737	-.00381
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.643**	**.00259**	**.00012**	**-.0130**	**20.352**
Stddev	.405	.00022	.00010	.0070	.050
%RSD	.76918	8.4965	81.412	54.04	.24726
#1	52.930	.00275	.00019	-.0080	20.317
#2	52.357	.00243	.00005	-.0180	20.388
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 10/8/2023 12:30:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**20.193**	**.00356**	**.00046**	**.0134**
Stddev	.035	.00008	.00002	.0012
%RSD	.17429	2.3154	3.9098	9.185
#1	20.218	.00361	.00047	.0125
#2	20.169	.00350	.00045	.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12781.**	**12580.**	**73590.**	**6103.3**
Stddev	16.	10.	190.	7.6
%RSD	.12898	.08303	.25880	.12519
#1	12769.	12573.	73455.	6097.9
#2	12793.	12587.	73725.	6108.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.812%	99.519%	97.464%	101.67%
Range				

Sample Name: ICEX3 Acquired: 10/8/2023 12:34:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00466**	**.02971**	**.00149**	**.00055**	**.00004**
Stddev	.00022	.02497	.00142	.00000	.00006
%RSD	4.6809	84.060	95.456	.47609	153.86
#1	.00481	.04736	.00048	.00055	.00008
#2	.00450	.01205	.00249	.00055	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00505**	**.00040**	**-.1077**	**.00002**
Stddev	.00002	.00149	.00001	.0093	.00014
%RSD	26.624	29.463	1.6536	8.662	641.18
#1	.00008	.00400	.00041	-.1143	-.00008
#2	.00005	.00610	.00040	-.1011	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00546**	**-.00335**	**.05517**	**.00080**
Stddev	.00020	.00082	.00355	.02708	.00169
%RSD	46.209	15.007	106.23	49.089	211.08
#1	-.00059	-.00488	-.00083	.07432	-.00039
#2	-.00030	-.00604	-.00586	.03602	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 10/8/2023 12:34:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04995**	**48.298**	**-.00329**	**-.01081**	**.00201**
Stddev	.00055	.033	.00034	.01125	.00020
%RSD	1.0963	.06843	10.262	104.13	9.8842
#1	.04956	48.275	-.00353	-.00285	.00215
#2	.05034	48.321	-.00305	-.01876	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4136**	**.00500**	**104.29**	**-.00507**	**.01527**
Stddev	.0017	.00115	.10	.00052	.00037
%RSD	.4044	22.926	.09510	10.207	2.4537
#1	.4148	.00581	104.36	-.00543	.01553
#2	.4124	.00419	104.22	-.00470	.01500
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01587**	**-.00032**	**.00008**	**-.0276**	F **.00705**
Stddev	.02620	.00019	.00002	.0248	.00046
%RSD	165.10	58.525	19.339	89.75	6.4733
#1	-.00266	-.00046	.00009	-.0101	.00737
#2	.03439	-.00019	.00007	-.0451	.00673
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit					.00500
Low Limit					-.00500

Sample Name: ICEX3 Acquired: 10/8/2023 12:34:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01987**	**.00098**	**.00035**	**.0079**
Stddev	.00020	.00012	.00013	.0001
%RSD	1.0076	12.072	35.436	1.147
#1	-.02001	.00090	.00027	.0080
#2	-.01973	.00107	.00044	.0078
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13511.**	**12820.**	**75551.**	**6179.5**
Stddev	18.	16.	302.	14.6
%RSD	.13457	.12841	.39958	.23692
#1	13498.	12808.	75337.	6189.9
#2	13524.	12832.	75764.	6169.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.23%	101.42%	100.06%	102.94%
Range				

Sample Name: ICEX4 Acquired: 10/8/2023 12:38:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00095**	**.01200**	**-.00072**	**.00009**
Stddev	.00133	.04119	.00014	.00074	.00000
%RSD	365.47	4339.1	1.1907	103.43	5.0047
#1	-.00058	.03007	.01190	-.00124	.00009
#2	.00131	-.02818	.01210	-.00019	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00558**	**.00012**	**.0136**	**19.567**
Stddev	.00023	.00076	.00020	.0746	.077
%RSD	473.63	13.676	163.13	549.0	.39294
#1	.00012	.00612	.00026	-.0392	19.622
#2	-.00021	.00504	-.00002	.0663	19.513
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **11.178**	**-.00290**	**.00030**	**.00732**	**-.00005**
Stddev	.032	.00057	.00032	.01666	.00051
%RSD	.28871	19.705	105.58	227.66	1000.7
#1	11.201	-.00331	.00008	.01910	.00031
#2	11.155	-.00250	.00053	-.00446	-.00041
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	11.000				
Low Limit	9.0000				

Sample Name: ICEX4 Acquired: 10/8/2023 12:38:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00734**	F **.00679**	**.00083**	**-.00790**	**9.8297**
Stddev	.00072	.00009	.00027	.01407	.0389
%RSD	9.8593	1.2822	32.273	178.15	.39568
#1	-.00683	.00686	.00064	-.01784	9.8572
#2	-.00785	.00673	.00101	.00205	9.8022
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.3975**	**.00281**	**.08451**	**-.00049**	**.00041**
Stddev	.0019	.00067	.00129	.00130	.00116
%RSD	.4852	23.949	1.5312	266.56	284.97
#1	.3961	.00233	.08543	-.00140	-.00041
#2	.3989	.00328	.08360	.00043	.00123
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.13767**	**-.00044**	**.00003**	**-.0197**	**.00182**
Stddev	.01434	.00009	.00016	.0103	.00055
%RSD	10.416	19.807	467.48	52.46	30.224
#1	-.12753	-.00050	.00015	-.0124	.00143
#2	-.14781	-.00038	-.00008	-.0270	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 10/8/2023 12:38:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00005**	**-.00408**	**.0099**
Stddev	.00160	.00029	.00010	.0015
%RSD	1163.0	554.23	2.5249	15.07
#1	.00100	.00015	-.00401	.0110
#2	-.00127	-.00026	-.00415	.0089
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13431.**	**12634.**	**74386.**	**6165.6**
Stddev	29.	37.	228.	6.4
%RSD	.21892	.29050	.30704	.10436
#1	13410.	12608.	74547.	6170.1
#2	13452.	12660.	74224.	6161.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.637%	99.946%	98.518%	102.71%
Range				

Sample Name: ICEX5 Acquired: 10/8/2023 12:42:11 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.04636**	**.01024**	**.00168**	**-.00005**
Stddev	.00039	.02220	.00033	.00004	.00000
%RSD	40.419	47.889	3.1979	2.1306	.59090
#1	.00069	.03066	.01000	.00171	-.00005
#2	.00125	.06206	.01047	.00165	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00139**	**.00021**	**-.0064**	**-.00045**
Stddev	.00007	.00007	.00009	.0059	.00011
%RSD	45.825	4.8887	41.629	92.88	25.007
#1	.00020	.00134	.00027	-.0105	-.00037
#2	.00010	.00144	.00015	-.0022	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	F **-.01118**	**.00478**	**.06083**	**-.00233**
Stddev	.00023	.00003	.00071	.03662	.00291
%RSD	8.0487	.27722	14.812	60.203	124.50
#1	.00306	-.01120	.00428	.03493	-.00028
#2	.00273	-.01116	.00528	.08672	-.00439
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: ICEX5 Acquired: 10/8/2023 12:42:11 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06971**	**-.00013**	F **5.8348**	**-.00572**	**.00227**
Stddev	.00245	.00007	.0027	.00332	.00026
%RSD	3.5089	59.044	.04561	58.029	11.396
#1	-.06799	-.00018	5.8329	-.00337	.00245
#2	-.07144	-.00007	5.8367	-.00806	.00208
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			5.5000		
Low Limit			4.5000		

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4346**	**.00282**	**-.00475**	**-.01649**	**.00376**
Stddev	.0019	.00056	.00405	.00140	.00037
%RSD	.4393	19.895	85.262	8.4809	9.9739
#1	.4359	.00242	-.00189	-.01550	.00402
#2	.4332	.00321	-.00762	-.01748	.00349
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01861**	**.00031**	**.00009**	**-.0286**	**-.00117**
Stddev	.01498	.00018	.00005	.0091	.00011
%RSD	80.521	59.053	55.802	31.72	9.8051
#1	.00801	.00018	.00006	-.0222	-.00125
#2	.02920	.00044	.00013	-.0350	-.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 10/8/2023 12:42:11 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.00097**	**.00071**	**.0106**
Stddev	.00096	.00047	.00017	.0011
%RSD	107.20	48.652	23.926	10.62
#1	-.00022	.00063	.00059	.0114
#2	-.00157	.00130	.00083	.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13435.**	**12713.**	**74855.**	**6206.5**
Stddev	11.	12.	342.	7.2
%RSD	.07964	.09598	.45695	.11595
#1	13443.	12721.	74613.	6211.6
#2	13427.	12704.	75097.	6201.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.665%	100.57%	99.139%	103.39%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 12:45:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0302**	**49.766**	**1.0136**	**1.0388**	**1.0014**
Stddev	.0009	.217	.0001	.0014	.0050
%RSD	.08817	.43609	.01249	.13459	.49843
#1	1.0308	49.919	1.0135	1.0379	1.0049
#2	1.0296	49.613	1.0137	1.0398	.99784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97552**	**49.309**	**1.0137**	**.9478**	**1.0001**
Stddev	.00586	.251	.0007	.0340	.0002
%RSD	.60038	.50950	.06572	3.586	.01706
#1	.97966	49.486	1.0133	.9718	1.0002
#2	.97138	49.131	1.0142	.9238	.99997
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0544**	**.99789**	**50.562**	**48.366**	**.94767**
Stddev	.0022	.00185	.126	.267	.00509
%RSD	.20688	.18556	.24994	.55110	.53670
#1	1.0560	.99920	50.651	48.554	.95126
#2	1.0529	.99658	50.472	48.177	.94407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 12:45:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.223**	**.98922**	**1.0445**	**47.992**	**.98982**
Stddev	.056	.00298	.0016	.229	.00067
%RSD	.10894	.30131	.14987	.47703	.06729
#1	51.263	.99132	1.0434	48.154	.98935
#2	51.184	.98711	1.0456	47.830	.99029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.93**	**1.0047**	**25.686**	**1.0130**	**1.0043**
Stddev	.03	.0014	.019	.0006	.0002
%RSD	.1076	.13626	.07517	.06387	.01555
#1	25.91	1.0057	25.672	1.0126	1.0042
#2	25.95	1.0037	25.699	1.0135	1.0044
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8823**	**.99664**	**1.0062**	**1.024**	**1.0211**
Stddev	.0255	.00186	.0065	.044	.0022
%RSD	.25794	.18628	.64166	4.347	.21354
#1	9.9003	.99533	1.0107	1.055	1.0227
#2	9.8642	.99795	1.0016	.9922	1.0196
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 12:45:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0002**	**1.0359**	**1.0504**	**1.021**
Stddev	.0010	.0007	.0005	.006
%RSD	.10076	.06717	.04858	.6389
#1	1.0009	1.0364	1.0501	1.026
#2	.99946	1.0355	1.0508	1.017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11852.**	**12325.**	**71422.**	**6021.7**
Stddev	2.	2.	90.	40.2
%RSD	.01980	.01533	.12622	.66698
#1	11850.	12323.	71486.	5993.3
#2	11853.	12326.	71358.	6050.1

Sample Name: CCB-7506043 Acquired: 10/8/2023 12:49:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**-.02251**	**-.00040**	**.00128**	**.00004**
Stddev	.00025	.00323	.00068	.00005	.00001
%RSD	56.732	14.331	170.31	4.1297	29.618
#1	.00061	-.02023	-.00088	.00124	.00003
#2	.00026	-.02479	.00008	.00132	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00019**	**.00002**	**-.0236**	**-.00001**
Stddev	.00004	.00261	.00011	.0329	.00001
%RSD	43.810	1407.3	524.27	139.6	77.167
#1	.00007	-.00203	-.00006	-.0003	-.00000
#2	.00013	.00166	.00010	-.0468	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00996**	**-.00211**	**.02249**	**-.00587**
Stddev	.00024	.00115	.00183	.02408	.00129
%RSD	1960.1	11.526	86.377	107.06	21.984
#1	.00016	-.00915	-.00082	.03952	-.00679
#2	-.00018	-.01077	-.00340	.00546	-.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 12:49:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**-.00005**	**-.00000**	**-.01952**	**-.00007**
Stddev	.00302	.00003	.00046	.00509	.00005
%RSD	161.75	63.320	21432.	26.072	70.685
#1	-.00027	-.00003	.00033	-.02311	-.00003
#2	.00400	-.00007	-.00033	-.01592	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4184**	**-.00077**	**.00584**	**.00080**	**-.00052**
Stddev	.0006	.00057	.00304	.00023	.00173
%RSD	.1531	73.889	52.032	28.078	330.25
#1	.4189	-.00117	.00799	.00096	-.00175
#2	.4180	-.00037	.00369	.00064	.00070
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02447**	**-.00007**	**.00013**	**-.0277**	**.00016**
Stddev	.00038	.00029	.00003	.0224	.00025
%RSD	1.5331	397.21	26.544	80.74	163.41
#1	-.02474	.00013	.00011	-.0119	.00033
#2	-.02420	-.00028	.00016	-.0435	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 12:49:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.00023**	**-.00013**	**.0126**
Stddev	.00116	.00033	.00003	.0013
%RSD	130.45	144.41	25.606	10.35
#1	-.00171	-.00000	-.00015	.0116
#2	-.00007	.00047	-.00010	.0135
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13624.**	**12751.**	**75153.**	**6194.2**
Stddev	2.	12.	301.	13.5
%RSD	.01514	.09450	.40116	.21783
#1	13622.	12743.	75366.	6184.7
#2	13625.	12760.	74940.	6203.8

Sample Name: CCVL-7610998 Acquired: 10/8/2023 12:59:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00733**	**.19914**	**.01451**	**.02064**	**.00208**
Stddev	.00020	.00142	.00121	.00021	.00004
%RSD	2.6835	.71101	8.3682	1.0265	1.7574
#1	.00747	.19814	.01365	.02049	.00211
#2	.00719	.20014	.01537	.02079	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.50014**	**.00212**	**.0168**	**.00385**
Stddev	.00006	.00168	.00020	.0519	.00010
%RSD	2.6994	.33641	9.5279	308.8	2.6567
#1	.00203	.49895	.00197	-.0199	.00392
#2	.00211	.50133	.00226	.0535	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	F **.00044**	**.05235**	**.53533**	**.02527**
Stddev	.00049	.00014	.00003	.01545	.00058
%RSD	10.806	32.532	.05794	2.8854	2.2752
#1	.00484	.00034	.05233	.52441	.02487
#2	.00415	.00055	.05237	.54626	.02568
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 12:59:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20462**	**.00306**	**.01080**	**.95631**	**.00946**
Stddev	.00352	.00002	.00025	.00049	.00003
%RSD	1.7194	.51426	2.2801	.05148	.36961
#1	.20711	.00305	.01098	.95665	.00944
#2	.20213	.00308	.01063	.95596	.00949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4194**	**.00919**	**.21919**	**.02044**	**.02582**
Stddev	.0005	.00042	.00350	.00002	.00068
%RSD	.1183	4.5430	1.5973	.11324	2.6388
#1	.4191	.00889	.21671	.02046	.02630
#2	.4198	.00948	.22167	.02042	.02534
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46242**	**.00932**	**.00506**	F **-.0325**	**.00502**
Stddev	.01637	.00037	.00009	.0154	.00025
%RSD	3.5405	3.9911	1.7507	47.58	5.0774
#1	.47400	.00906	.00512	-.0215	.00520
#2	.45084	.00958	.00500	-.0434	.00484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 12:59:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01858**	**.00556**	**.01058**	F **.0125**
Stddev	.00026	.00042	.00029	.0007
%RSD	1.4104	7.5823	2.7710	5.559
#1	.01839	.00526	.01079	.0120
#2	.01876	.00586	.01037	.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13564.**	**12775.**	**75608.**	**6240.1**
Stddev	6.	3.	118.	2.6
%RSD	.04757	.02277	.15620	.04146
#1	13569.	12777.	75525.	6238.3
#2	13559.	12773.	75692.	6242.0

Sample Name: MB 480-684734/1-A Acquired: 10/8/2023 13:03:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.01818**	**-.00088**	**.00260**	**.00023**
Stddev	.00015	.01422	.00032	.00023	.00001
%RSD	11.700	78.215	36.293	8.9559	3.8641
#1	.00116	.02823	-.00066	.00277	.00024
#2	.00137	.00812	-.00111	.00244	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.02681**	**.00002**	**.0154**	**-.00011**
Stddev	.00020	.00093	.00000	.0001	.00010
%RSD	216.08	3.4723	18.394	.5332	86.662
#1	-.00005	.02747	.00001	.0154	-.00018
#2	.00023	.02615	.00002	.0155	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	F **-.01083**	**.00718**	**.05466**	**-.00030**
Stddev	.00042	.00170	.00050	.02639	.00021
%RSD	166.20	15.657	6.9144	48.281	69.856
#1	-.00004	-.00963	.00683	.07332	-.00015
#2	.00055	-.01203	.00753	.03600	-.00046
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.00400			

Sample Name: MB 480-684734/1-A Acquired: 10/8/2023 13:03:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00498**	**.00034**	**.00030**	**.21539**	**-.00008**
Stddev	.00410	.00004	.00003	.00184	.00015
%RSD	82.387	12.550	10.160	.85270	193.79
#1	.00208	.00031	.00028	.21669	.00003
#2	.00787	.00037	.00033	.21409	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4208**	**.00004**	**.02824**	**.00027**	**-.00312**
Stddev	.0024	.00104	.00230	.00145	.00022
%RSD	.5781	2914.8	8.1392	547.56	7.0933
#1	.4191	.00077	.02661	-.00076	-.00328
#2	.4226	-.00070	.02987	.00129	-.00297
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03482**	**-.00025**	**.00007**	**-.0264**	**.00015**
Stddev	.00003	.00005	.00005	.0256	.00018
%RSD	.09231	18.893	69.754	96.76	124.43
#1	-.03485	-.00021	.00004	-.0445	.00002
#2	-.03480	-.00028	.00011	-.0083	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-684734/1-A Acquired: 10/8/2023 13:03:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00121**	**.00032**	**.00202**	**.0160**
Stddev	.00075	.00072	.00010	.0026
%RSD	61.790	227.07	4.7041	16.55
#1	-.00068	-.00019	.00195	.0141
#2	-.00174	.00082	.00209	.0178
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13551.**	**12758.**	**75582.**	**6274.3**
Stddev	39.	34.	529.	23.6
%RSD	.28455	.26474	.70008	.37677
#1	13524.	12734.	75208.	6257.6
#2	13578.	12782.	75956.	6291.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.53%	100.92%	100.10%	104.52%
Range				

Sample Name: LCS 480-684734/2-A Acquired: 10/8/2023 13:06:48 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05053**	**10.466**	**.21308**	F **.23091**	**.21739**
Stddev	.00009	.015	.00092	.00012	.00021
%RSD	.17979	.14002	.43106	.05083	.09762
#1	.05047	10.456	.21243	.23099	.21724
#2	.05060	10.477	.21372	.23083	.21754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20756**	**10.318**	**.21565**	**-.0230**	**.21164**
Stddev	.00011	.009	.00026	.0243	.00044
%RSD	.05532	.08299	.11973	105.6	.20804
#1	.20748	10.312	.21546	-.0401	.21195
#2	.20764	10.324	.21583	-.0058	.21133
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22590**	**.19961**	**10.738**	**10.013**	**.18888**
Stddev	.00016	.00223	.001	.067	.00119
%RSD	.07259	1.1175	.01289	.66849	.62814
#1	.22579	.20119	10.739	9.9655	.18805
#2	.22602	.19803	10.737	10.060	.18972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-684734/2-A Acquired: 10/8/2023 13:06:48 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.619**	**.21026**	**.22780**	**10.055**	**.20069**
Stddev	.025	.00081	.00005	.018	.00007
%RSD	.23452	.38487	.01994	.17756	.03330
#1	10.601	.21084	.22783	10.068	.20074
#2	10.636	.20969	.22777	10.043	.20065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4167**	**.21271**	**10.860**	F **.23941**	**.20678**
Stddev	.0001	.00071	.000	.00159	.00274
%RSD	.0305	.33334	.00238	.66590	1.3250
#1	.4168	.21321	10.861	.24054	.20871
#2	.4166	.21221	10.860	.23828	.20484
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.029**	**.20450**	**.21466**	**-.0149**	**.21927**
Stddev	.029	.00100	.00029	.0113	.00001
%RSD	.29061	.48899	.13731	75.77	.00596
#1	10.050	.20521	.21445	-.0069	.21928
#2	10.008	.20380	.21487	-.0229	.21926
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-684734/2-A Acquired: 10/8/2023 13:06:48 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21216**	**.21969**	**.21417**	**.0136**
Stddev	.00058	.00037	.00071	.0018
%RSD	.27349	.16662	.33129	13.01
#1	.21257	.21943	.21367	.0124
#2	.21175	.21995	.21467	.0149
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13068.**	**12737.**	**74946.**	**6310.3**
Stddev	6.	4.	204.	18.5
%RSD	.04423	.02840	.27237	.29343
#1	13064.	12734.	75091.	6323.4
#2	13072.	12740.	74802.	6297.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.943%	100.76%	99.260%	105.12%
Range				

Sample Name: 480-212997-E-1-A Acquired: 10/8/2023 13:10:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**.04104**	**.00080**	**.02919**	**.11969**
Stddev	.00059	.01664	.00107	.00089	.00006
%RSD	47.055	40.547	134.36	3.0465	.05352
#1	.00167	.02928	.00156	.02856	.11964
#2	.00084	.05281	.00004	.02982	.11973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**475.36**	**.00024**	**-.0716**	**.00005**
Stddev	.00006	5.34	.00012	.0020	.00004
%RSD	48.777	1.1231	47.707	2.803	83.250
#1	.00007	479.13	.00016	-.0702	.00002
#2	.00015	471.58	.00033	-.0730	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00777**	**.00584**	**15.177**	**.04098**
Stddev	.00012	.00041	.00085	.009	.00246
%RSD	25.571	5.2234	14.517	.06168	5.9976
#1	.00039	-.00805	.00644	15.183	.03924
#2	.00056	-.00748	.00524	15.170	.04272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-1-A Acquired: 10/8/2023 13:10:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.848**	**.03793**	**.00010**	**159.40**	**-.00146**
Stddev	.134	.00005	.00005	.91	.00022
%RSD	.28539	.13862	43.708	.56871	15.365
#1	46.754	.03789	.00014	158.76	-.00130
#2	46.943	.03796	.00007	160.04	-.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4590**	**.00225**	F **380.15**	**-.01023**	**-.00299**
Stddev	.0059	.00008	.11	.00099	.00465
%RSD	1.279	3.7179	.03017	9.6327	155.38
#1	.4548	.00219	380.07	-.00954	.00030
#2	.4631	.00231	380.23	-.01093	-.00628
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0947**	**.00000**	**3.4725**	**-.0204**	**.00400**
Stddev	.0124	.00017	.0037	.0001	.00080
%RSD	.40228	13212.	.10585	.4560	19.876
#1	3.1035	-.00012	3.4751	-.0204	.00344
#2	3.0859	.00012	3.4699	-.0205	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-1-A Acquired: 10/8/2023 13:10:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.00038**	**.00110**	**.0126**
Stddev	.00002	.00032	.00021	.0021
%RSD	3.3691	83.621	18.939	16.49
#1	-.00065	-.00015	.00125	.0141
#2	-.00062	-.00060	.00095	.0112
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11190.**	**11574.**	**69060.**	**6070.0**
Stddev	14.	16.	346.	13.4
%RSD	.12760	.13535	.50064	.22079
#1	11180.	11562.	69305.	6079.5
#2	11200.	11585.	68816.	6060.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.013%	91.556%	91.465%	101.12%
Range				

Sample Name: 480-212997-E-2-A Acquired: 10/8/2023 13:14:07 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.11851**	**.00044**	**.04096**	**.06873**
Stddev	.00013	.00125	.00048	.00006	.00002
%RSD	14.365	1.0578	108.35	.14538	.02255
#1	.00079	.11762	.00010	.04100	.06871
#2	.00097	.11939	.00078	.04091	.06874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**411.96**	**.00043**	**.0179**	**.00002**
Stddev	.00004	1.34	.00005	.0055	.00004
%RSD	11.353	.32616	10.969	30.82	248.97
#1	.00031	412.91	.00047	.0218	-.00001
#2	.00036	411.01	.00040	.0140	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**-.00718**	**.83007**	**6.4910**	**.00397**
Stddev	.00020	.00016	.00807	.0574	.00388
%RSD	11.840	2.2189	.97214	.88417	97.549
#1	.00155	-.00729	.82436	6.5316	.00671
#2	.00183	-.00706	.83577	6.4504	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-2-A Acquired: 10/8/2023 13:14:07 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.105**	**.03737**	**.00049**	**100.03**	**-.00014**
Stddev	.099	.00018	.00003	.32	.00031
%RSD	.15611	.49361	7.0486	.31922	226.75
#1	63.175	.03750	.00052	100.25	-.00036
#2	63.035	.03724	.00047	99.800	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4370**	**.00547**	F **332.27**	**-.00911**	**-.00358**
Stddev	.0019	.00028	.42	.00081	.00029
%RSD	.4290	5.0621	.12515	8.8973	8.2152
#1	.4356	.00527	332.56	-.00968	-.00337
#2	.4383	.00567	331.97	-.00854	-.00379
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7425**	**-.00023**	**2.9613**	**-.0564**	**.00610**
Stddev	.0040	.00058	.0002	.0234	.00003
%RSD	.05107	253.20	.00776	41.58	.57013
#1	7.7397	-.00064	2.9615	-.0729	.00612
#2	7.7453	.00018	2.9611	-.0398	.00607
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-2-A Acquired: 10/8/2023 13:14:07 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00030**	**.00445**	**.0126**
Stddev	.00161	.00004	.00032	.0001
%RSD	245.62	13.020	7.2929	.4719
#1	.00179	-.00027	.00467	.0127
#2	-.00048	-.00033	.00422	.0126
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11330.**	**11592.**	**69006.**	**6060.3**
Stddev	19.	14.	30.	17.9
%RSD	.17129	.11938	.04348	.29545
#1	11317.	11583.	68985.	6072.9
#2	11344.	11602.	69027.	6047.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.051%	91.705%	91.393%	100.96%
Range				

Sample Name: 480-212997-E-3-A Acquired: 10/8/2023 13:17:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.31053**	**.01388**	**.03375**	**.69461**
Stddev	.00116	.02402	.00024	.00047	.00031
%RSD	108.80	7.7339	1.7614	1.3990	.04521
#1	.00189	.29355	.01370	.03342	.69483
#2	.00025	.32751	.01405	.03408	.69438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**875.51**	**-.00043**	**-.0688**	**.00030**
Stddev	.00006	8.66	.00009	.0005	.00002
%RSD	30.499	.98945	20.681	.7177	6.5162
#1	.00015	881.64	-.00050	-.0685	.00028
#2	.00023	869.39	-.00037	-.0692	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**-.00454**	**.00727**	**16.322**	**.02370**
Stddev	.00029	.00059	.00499	.101	.00386
%RSD	34.100	13.003	68.557	.61992	16.281
#1	.00064	-.00412	.00375	16.250	.02643
#2	.00105	-.00496	.01080	16.393	.02097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-3-A Acquired: 10/8/2023 13:17:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00666**	**.00022**	**.04082**	**98.063**	**.01466**
Stddev	.00152	.00000	.00026	.769	.00050
%RSD	22.852	.72618	.63700	.78438	3.3899
#1	.00558	.00022	.04101	97.519	.01430
#2	.00773	.00022	.04064	98.607	.01501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4710**	**.00636**	**47.051**	**-.01568**	**.00261**
Stddev	.0024	.00069	.020	.00006	.00042
%RSD	.5030	10.769	.04256	.39590	16.111
#1	.4693	.00588	47.037	-.01564	.00231
#2	.4726	.00685	47.066	-.01573	.00290
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28833**	**.00010**	**3.8361**	**-.0324**	**.00650**
Stddev	.01313	.00038	.0011	.0035	.00032
%RSD	4.5548	379.94	.02948	10.73	4.8563
#1	.27904	-.00017	3.8369	-.0349	.00628
#2	.29761	.00037	3.8353	-.0300	.00672
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-3-A Acquired: 10/8/2023 13:17:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00165**	**.00347**	**.0129**
Stddev	.00106	.00044	.00002	.0018
%RSD	179.28	26.674	.71492	13.77
#1	-.00134	.00134	.00345	.0117
#2	.00016	.00196	.00349	.0142
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10942.**	**11539.**	**68446.**	**6211.9**
Stddev	9.	17.	338.	7.2
%RSD	.08365	.14754	.49365	.11512
#1	10948.	11551.	68685.	6217.0
#2	10935.	11527.	68207.	6206.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.168%	91.285%	90.651%	103.48%
Range				

Sample Name: 480-212997-E-4-A Acquired: 10/8/2023 13:21:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00111	.11694	.00276	.02952	.84058
Stddev	.00007	.01523	.00133	.00013	.00077
%RSD	6.4230	13.020	48.147	.44308	.09166
#1	.00116	.12771	.00182	.02962	.84004
#2	.00106	.10618	.00370	.02943	.84113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00013	778.46	-.00041	-.0386	-.00027
Stddev	.00002	3.23	.00019	.0417	.00009
%RSD	15.467	.41449	47.568	108.1	31.815
#1	.00014	776.18	-.00027	-.0681	-.00021
#2	.00011	780.74	-.00054	-.0091	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00077	-.00501	.00507	18.681	.04727
Stddev	.00011	.00012	.00238	.055	.00032
%RSD	14.862	2.4488	47.043	.29521	.67670
#1	.00085	-.00510	.00338	18.720	.04749
#2	.00069	-.00493	.00675	18.642	.04704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-A Acquired: 10/8/2023 13:21:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01044**	**.00019**	**.00815**	**101.96**	**.00370**
Stddev	.00039	.00001	.00004	.02	.00017
%RSD	3.7585	3.5037	.47347	.01774	4.7128
#1	.01016	.00019	.00818	101.97	.00357
#2	.01072	.00020	.00812	101.94	.00382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4428**	**.00487**	**24.243**	**-.01318**	**-.00017**
Stddev	.0004	.00001	.048	.00127	.00467
%RSD	.0984	.22043	.19957	9.6079	2807.9
#1	.4425	.00486	24.277	-.01408	.00314
#2	.4431	.00487	24.209	-.01229	-.00347
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21157**	**.00025**	**2.2645**	**-.0292**	**.00509**
Stddev	.02634	.00013	.0028	.0084	.00020
%RSD	12.448	51.697	.12188	28.64	4.0267
#1	.19295	.00035	2.2626	-.0351	.00494
#2	.23020	.00016	2.2665	-.0233	.00523
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-A Acquired: 10/8/2023 13:21:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00085**	**-.00003**	**.00198**	**.0131**
Stddev	.00011	.00055	.00005	.0020
%RSD	12.839	2142.7	2.6919	15.60
#1	.00092	-.00041	.00194	.0117
#2	.00077	.00036	.00202	.0146
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10880.**	**11457.**	**67971.**	**6055.4**
Stddev	21.	30.	11.	18.1
%RSD	.19700	.26520	.01673	.29883
#1	10865.	11435.	67980.	6042.6
#2	10895.	11478.	67963.	6068.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.714%	90.631%	90.023%	100.88%
Range				

Sample Name: 480-212997-E-4-Asd@5 Acquired: 10/8/2023 13:25:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**.69876**	**.00076**	**.03897**	**.18107**
Stddev	.00064	.01717	.00108	.00016	.00001
%RSD	36.492	2.4574	141.73	.40296	.00820
#1	.00131	.68662	.00152	.03908	.18106
#2	.00222	.71090	-.00000	.03886	.18108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**159.19**	**.00002**	**.0261**	**-.00006**
Stddev	.00006	.76	.00003	.0367	.00017
%RSD	69.862	.47443	130.02	140.4	291.31
#1	.00004	158.65	.00004	.0521	-.00018
#2	.00013	159.72	.00000	.0002	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00941**	**.01980**	**3.5261**	**.00628**
Stddev	.00004	.00057	.00042	.0214	.00062
%RSD	5.5570	6.0172	2.1218	.60626	9.8307
#1	.00077	-.00981	.01950	3.5412	.00671
#2	.00071	-.00901	.02009	3.5110	.00584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-Asd@5 Acquired: 10/8/2023 13:25:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03976**	**.00080**	**.00153**	**18.986**	**.00105**
Stddev	.00284	.00000	.00008	.086	.00030
%RSD	7.1482	.34856	5.3374	.45204	28.474
#1	.04177	.00080	.00158	18.925	.00084
#2	.03775	.00080	.00147	19.046	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4253**	**.00130**	**4.5111**	**-.00392**	**-.00114**
Stddev	.0021	.00016	.0086	.00039	.00208
%RSD	.4856	12.274	.19069	9.8158	182.66
#1	.4268	.00119	4.5050	-.00365	-.00261
#2	.4239	.00142	4.5172	-.00420	.00033
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02955**	**.00040**	**.45556**	**-.0269**	**.00197**
Stddev	.01698	.00004	.00109	.0053	.00017
%RSD	57.467	10.659	.23937	19.90	8.5561
#1	.04156	.00042	.45479	-.0306	.00185
#2	.01755	.00037	.45633	-.0231	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-Asd@5 Acquired: 10/8/2023 13:25:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00080**	**.00654**	**.0113**
Stddev	.00005	.00044	.00041	.0004
%RSD	6.6321	54.825	6.2344	3.573
#1	.00076	.00049	.00625	.0116
#2	.00069	.00111	.00682	.0110
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12303.**	**12209.**	**72458.**	**6159.9**
Stddev	2.	7.	82.	59.6
%RSD	.01495	.05874	.11298	.96831
#1	12305.	12204.	72516.	6202.0
#2	12302.	12214.	72400.	6117.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.270%	96.584%	95.965%	102.62%
Range				

Sample Name: 480-212997-E-4-APDS Acquired: 10/8/2023 13:29:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05120**	**10.236**	**.22172**	**.24363**	**.98260**
Stddev	.00086	.023	.00215	.00038	.00545
%RSD	1.6868	.22083	.97089	.15722	.55463
#1	.05059	10.220	.22020	.24390	.97875
#2	.05181	10.252	.22324	.24336	.98646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20219**	**742.38**	**.21666**	**.0102**	**.21299**
Stddev	.00039	1.65	.00005	.0055	.00026
%RSD	.19376	.22201	.02425	53.76	.12360
#1	.20192	743.54	.21662	.0063	.21318
#2	.20247	741.21	.21669	.0141	.21280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21279**	**.19631**	**9.9999**	**27.436**	**.23715**
Stddev	.00020	.00047	.0495	.103	.00031
%RSD	.09486	.24177	.49528	.37707	.12910
#1	.21265	.19665	9.9649	27.362	.23737
#2	.21293	.19598	10.035	27.509	.23693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-APDS Acquired: 10/8/2023 13:29:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4784**	**.19723**	**.22704**	**104.62**	**.20450**
Stddev	.0207	.00012	.00062	.57	.00022
%RSD	.21827	.06262	.27496	.54916	.10830
#1	9.4638	.19714	.22659	104.22	.20435
#2	9.4930	.19732	.22748	105.03	.20466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4316**	**.21809**	**33.509**	**.22181**	**.20727**
Stddev	.0018	.00050	.030	.00058	.00527
%RSD	.4191	.22992	.08861	.26319	2.5402
#1	.4329	.21773	33.488	.22222	.20355
#2	.4304	.21844	33.530	.22140	.21099
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.319**	**.20380**	**2.3086**	**-.0229**	**.21735**
Stddev	.035	.00025	.0105	.0057	.00004
%RSD	.34218	.12313	.45296	24.88	.01889
#1	10.294	.20398	2.3012	-.0269	.21738
#2	10.344	.20362	2.3160	-.0189	.21732
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-APDS Acquired: 10/8/2023 13:29:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20351**	**.21425**	**.26810**	**.0140**
Stddev	.00188	.00053	.00058	.0029
%RSD	.92187	.24946	.21666	20.43
#1	.20484	.21387	.26851	.0161
#2	.20219	.21462	.26769	.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10865.**	**11538.**	**68308.**	**6043.1**
Stddev	6.	6.	53.	30.5
%RSD	.05552	.05053	.07810	.50452
#1	10860.	11534.	68345.	6064.6
#2	10869.	11543.	68270.	6021.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.598%	91.278%	90.468%	100.67%
Range				

Sample Name: 480-212997-E-4-B MS Acquired: 10/8/2023 13:32:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05392**	**10.780**	**.23321**	**.25509**	**1.0280**
Stddev	.00012	.019	.00136	.00032	.0001
%RSD	.22720	.17700	.58186	.12688	.01087
#1	.05383	10.794	.23225	.25532	1.0281
#2	.05401	10.767	.23417	.25486	1.0279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21166**	**774.65**	**.22697**	**.0304**	**.22450**
Stddev	.00031	8.68	.00044	.0487	.00032
%RSD	.14548	1.1202	.19272	160.2	.14468
#1	.21188	780.78	.22728	-.0040	.22427
#2	.21144	768.51	.22666	.0648	.22473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22324**	**.20811**	**10.547**	**28.746**	**.24929**
Stddev	.00029	.00131	.004	.096	.00217
%RSD	.13146	.62745	.03750	.33353	.86863
#1	.22304	.20903	10.544	28.814	.25082
#2	.22345	.20719	10.550	28.678	.24776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-B MS Acquired: 10/8/2023 13:32:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9641**	**.20800**	**.23836**	**109.04**	**.21676**
Stddev	.0429	.00040	.00071	.90	.00017
%RSD	.43096	.19071	.29941	.82611	.07971
#1	9.9338	.20772	.23886	109.68	.21664
#2	9.9945	.20828	.23785	108.40	.21688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4363**	**.22881**	**35.631**	**.23793**	**.20489**
Stddev	.0003	.00261	.022	.00353	.00122
%RSD	.0602	1.1417	.06130	1.4841	.59473
#1	.4365	.23066	35.646	.24043	.20575
#2	.4361	.22696	35.615	.23544	.20403
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.729**	**.21636**	**2.4142**	**-.0374**	**.22921**
Stddev	.007	.00005	.0039	.0136	.00023
%RSD	.06148	.02416	.16158	36.28	.10082
#1	10.733	.21639	2.4170	-.0278	.22905
#2	10.724	.21632	2.4114	-.0470	.22938
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-B MS Acquired: 10/8/2023 13:32:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21471**	**.22517**	**.21218**	**.0131**
Stddev	.00129	.00098	.00189	.0037
%RSD	.59870	.43347	.89253	28.30
#1	.21562	.22448	.21084	.0104
#2	.21380	.22586	.21352	.0157
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10813.**	**11504.**	**68002.**	**6041.1**
Stddev	16.	39.	308.	23.6
%RSD	.15155	.34107	.45358	.39076
#1	10801.	11476.	68220.	6024.4
#2	10824.	11532.	67784.	6057.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.212%	91.008%	90.063%	100.64%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 13:36:40 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0297**	**48.677**	**1.0091**	**1.0448**	**.98577**
Stddev	.0018	.209	.0003	.0005	.00391
%RSD	.17182	.42942	.02919	.05073	.39652
#1	1.0284	48.529	1.0089	1.0444	.98301
#2	1.0309	48.824	1.0093	1.0452	.98854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95131**	**47.929**	**1.0151**	**.9424**	**.99240**
Stddev	.00218	.163	.0001	.0001	.00002
%RSD	.22889	.33967	.00519	.0131	.00222
#1	.94977	47.814	1.0152	.9423	.99241
#2	.95285	48.045	1.0151	.9424	.99238
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0528**	**.98904**	**49.509**	**47.167**	**.92284**
Stddev	.0028	.00165	.319	.106	.00429
%RSD	.26676	.16725	.64466	.22539	.46463
#1	1.0509	.99021	49.283	47.092	.91981
#2	1.0548	.98787	49.734	47.242	.92587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 13:36:40 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.821**	**.97073**	**1.0515**	**46.747**	**.97993**
Stddev	.179	.00091	.0005	.149	.00208
%RSD	.35258	.09416	.04515	.31891	.21195
#1	50.695	.97009	1.0518	46.641	.97846
#2	50.948	.97138	1.0511	46.852	.98140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.99**	**.99658**	**25.768**	**1.0129**	**.98803**
Stddev	.00	.00100	.003	.0006	.00054
%RSD	.0160	.10074	.01325	.05933	.05447
#1	25.98	.99729	25.766	1.0125	.98765
#2	25.99	.99587	25.771	1.0133	.98841
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6627**	**.98921**	**.99045**	**.9841**	**1.0148**
Stddev	.0779	.00140	.00459	.0099	.0003
%RSD	.80591	.14157	.46387	1.008	.02682
#1	9.6076	.99020	.98720	.9771	1.0146
#2	9.7177	.98822	.99370	.9911	1.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 13:36:40 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99066**	**1.0346**	**1.0385**	**1.002**
Stddev	.00191	.0032	.0005	.006
%RSD	.19291	.31214	.05035	.6423
#1	.99201	1.0323	1.0381	.9970
#2	.98931	1.0369	1.0389	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11862.**	**12263.**	**71562.**	**6074.4**
Stddev	9.	2.	134.	17.0
%RSD	.07481	.01537	.18719	.27937
#1	11869.	12264.	71657.	6086.4
#2	11856.	12262.	71467.	6062.4

Sample Name: CCB-7506043 Acquired: 10/8/2023 13:40:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**.01994**	**-.00067**	**.00064**	**-.00000**
Stddev	.00046	.02461	.00108	.00021	.00001
%RSD	41.777	123.47	159.80	32.510	313.67
#1	.00143	.03734	-.00144	.00050	-.00001
#2	.00078	.00253	.00009	.00079	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00246**	**-.00010**	**-.0143**	**.00001**
Stddev	.00000	.00224	.00018	.0330	.00001
%RSD	11.090	91.023	185.99	231.0	91.405
#1	.00002	-.00088	-.00022	-.0376	.00000
#2	.00002	-.00405	.00003	.0091	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00784**	**-.00194**	**.04284**	**-.00273**
Stddev	.00014	.00003	.00018	.00698	.00058
%RSD	131.86	.38153	9.5209	16.297	21.361
#1	-.00001	-.00782	-.00207	.03791	-.00232
#2	-.00020	-.00786	-.00181	.04778	-.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 13:40:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00000**	**.00005**	**-.02026**	**-.00010**
Stddev	.00004	.00008	.00014	.02730	.00001
%RSD	17.756	2001.7	282.53	134.75	7.1534
#1	.00020	-.00005	-.00005	-.03956	-.00009
#2	.00025	.00006	.00014	-.00096	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4195**	**-.00228**	**.01138**	**-.00141**	**.00114**
Stddev	.0009	.00063	.00031	.00014	.00002
%RSD	.2206	27.709	2.7464	9.6503	1.7704
#1	.4202	-.00272	.01116	-.00151	.00115
#2	.4189	-.00183	.01160	-.00132	.00112
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03878**	**.00022**	**-.00006**	**-.0083**	**.00035**
Stddev	.02919	.00023	.00014	.0208	.00041
%RSD	75.284	106.59	252.50	251.6	117.08
#1	-.05942	.00039	.00004	.0064	.00065
#2	-.01813	.00005	-.00015	-.0230	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 13:40:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.00012**	**.00007**	**.0113**
Stddev	.00095	.00007	.00014	.0002
%RSD	70.205	55.123	189.93	1.618
#1	-.00068	.00016	.00017	.0114
#2	-.00202	.00007	-.00002	.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13597.**	**12705.**	**75185.**	**6172.3**
Stddev	4.	1.	101.	6.0
%RSD	.02936	.01119	.13372	.09686
#1	13600.	12706.	75256.	6176.5
#2	13594.	12704.	75114.	6168.1

Sample Name: CCVL-7610998 Acquired: 10/8/2023 13:43:58 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00723**	**.22172**	**.01399**	**.02025**	**.00210**
Stddev	.00020	.04507	.00143	.00031	.00001
%RSD	2.7144	20.327	10.214	1.5320	.35702
#1	.00737	.25359	.01500	.02047	.00211
#2	.00709	.18986	.01298	.02003	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.49548**	**.00204**	**-.0298**	**.00368**
Stddev	.00024	.00123	.00007	.0140	.00018
%RSD	11.533	.24823	3.6775	47.00	4.8344
#1	.00220	.49635	.00209	-.0396	.00380
#2	.00187	.49461	.00198	-.0199	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	F **.00299**	**.04856**	**.55599**	**.02680**
Stddev	.00019	.00044	.00531	.06063	.00012
%RSD	4.5910	14.626	10.931	10.905	.44018
#1	.00433	.00330	.04481	.51312	.02671
#2	.00405	.00268	.05232	.59887	.02688
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 13:43:58 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20476**	**.00306**	**.01067**	**.94831**	**.00918**
Stddev	.00119	.00006	.00000	.00361	.00004
%RSD	.58143	1.9577	.00483	.38098	.40582
#1	.20391	.00310	.01067	.95086	.00916
#2	.20560	.00302	.01067	.94575	.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4187**	**.00914**	**.21854**	**.02098**	**.02547**
Stddev	.0015	.00058	.00180	.00284	.00069
%RSD	.3515	6.3959	.82428	13.537	2.7173
#1	.4198	.00955	.21727	.01897	.02596
#2	.4177	.00872	.21981	.02299	.02498
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46957**	**.00911**	**.00504**	F **-.0298**	**.00517**
Stddev	.01827	.00062	.00001	.0031	.00012
%RSD	3.8902	6.7978	.28455	10.41	2.3999
#1	.45665	.00955	.00503	-.0276	.00526
#2	.48249	.00867	.00505	-.0319	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 13:43:58 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01938**	**.00547**	**.01020**	F **.0112**
Stddev	.00110	.00015	.00003	.0013
%RSD	5.6687	2.7669	.28230	11.33
#1	.01860	.00558	.01022	.0103
#2	.02015	.00537	.01018	.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13538.**	**12758.**	**75480.**	**6130.4**
Stddev	16.	22.	254.	38.1
%RSD	.12014	.17439	.33641	.62087
#1	13527.	12743.	75301.	6157.3
#2	13550.	12774.	75660.	6103.5

Sample Name: 480-212997-E-4-C MSD Acquired: 10/8/2023 13:47:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05251	10.845	.23069	.25448	1.0329
Stddev	.00194	.023	.00259	.00052	.0010
%RSD	3.6917	.21229	1.1244	.20248	.10059
#1	.05114	10.861	.22885	.25484	1.0336
#2	.05388	10.828	.23252	.25411	1.0321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21301	768.08	.22416	-.0053	.22278
Stddev	.00006	4.87	.00029	.0089	.00030
%RSD	.02845	.63384	.12964	167.7	.13344
#1	.21305	771.52	.22436	-.0117	.22257
#2	.21296	764.64	.22395	.0010	.22299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.22007	.21023	10.447	29.087	.25596
Stddev	.00055	.00078	.024	.112	.00247
%RSD	.25089	.36989	.23051	.38644	.96304
#1	.21968	.21078	10.464	29.167	.25770
#2	.22046	.20968	10.430	29.008	.25422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-C MSD Acquired: 10/8/2023 13:47:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8477**	**.20882**	**.23400**	**110.32**	**.21631**
Stddev	.0124	.00003	.00060	.85	.00083
%RSD	.12621	.01591	.25689	.76619	.38157
#1	9.8390	.20884	.23443	110.92	.21689
#2	9.8565	.20879	.23358	109.72	.21573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4318**	**.22570**	**35.467**	**.23477**	**.20326**
Stddev	.0021	.00170	.022	.00213	.00198
%RSD	.4933	.75507	.06168	.90627	.97620
#1	.4333	.22450	35.482	.23326	.20467
#2	.4303	.22691	35.451	.23627	.20186
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.677**	**.21594**	**2.4232**	**-.0072**	**.22614**
Stddev	.011	.00025	.0056	.0049	.00001
%RSD	.10182	.11402	.23065	67.89	.00588
#1	10.684	.21577	2.4272	-.0037	.22615
#2	10.669	.21612	2.4193	-.0106	.22613
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-4-C MSD Acquired: 10/8/2023 13:47:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21361**	**.22171**	**.20953**	**.0123**
Stddev	.00265	.00100	.00048	.0009
%RSD	1.2418	.45278	.23035	7.099
#1	.21549	.22100	.20919	.0117
#2	.21173	.22242	.20987	.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10727.**	**11431.**	**67891.**	**5945.0**
Stddev	9.	8.	15.	1.4
%RSD	.08697	.06836	.02221	.02397
#1	10720.	11426.	67902.	5944.0
#2	10733.	11437.	67881.	5946.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.574%	90.432%	89.916%	99.036%
Range				

Sample Name: 480-212997-E-5-A Acquired: 10/8/2023 13:51:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.05894**	**.00236**	**.09469**	**.18630**
Stddev	.00140	.01178	.00232	.00032	.00074
%RSD	2179.6	19.984	98.467	.33401	.39498
#1	-.00092	.05061	.00400	.09447	.18682
#2	.00105	.06727	.00072	.09492	.18578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	F **1048.7**	**.00011**	**.0341**	**-.00019**
Stddev	.00001	3.0	.00005	.0212	.00001
%RSD	8.7103	.28694	44.581	62.10	5.5983
#1	.00011	1050.9	.00007	.0490	-.00018
#2	.00012	1046.6	.00014	.0191	-.00020
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00006**	**.87210**	**5.6188**	**-.02061**
Stddev	.00087	.00031	.00342	.0452	.00104
%RSD	249.34	490.22	.39248	.80454	5.0383
#1	.00097	.00028	.87452	5.6507	-.02134
#2	-.00027	-.00016	.86968	5.5868	-.01987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-5-A Acquired: 10/8/2023 13:51:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**101.92**	**.47843**	**-.00027**	**245.09**	**-.00264**
Stddev	.50	.00064	.00073	.93	.00008
%RSD	.49008	.13463	267.62	.37781	2.9675
#1	102.27	.47888	-.00078	245.75	-.00259
#2	101.56	.47797	.00024	244.44	-.00270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4609**	**.00623**	F **262.12**	**-.01550**	**-.00114**
Stddev	.0007	.00093	.41	.00005	.00490
%RSD	.1550	14.928	.15663	.32047	431.22
#1	.4604	.00689	262.41	-.01546	.00233
#2	.4614	.00557	261.83	-.01553	-.00460
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5329**	**-.00083**	**4.4045**	**-.0404**	**.00723**
Stddev	.0499	.00026	.0060	.0217	.00021
%RSD	.90169	31.684	.13584	53.83	2.9188
#1	5.4977	-.00102	4.4003	-.0250	.00708
#2	5.5682	-.00064	4.4087	-.0557	.00738
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-5-A Acquired: 10/8/2023 13:51:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00081**	**-.00120**	**.00379**	**.0125**
Stddev	.00147	.00018	.00037	.0008
%RSD	180.92	15.159	9.6487	6.675
#1	-.00185	-.00133	.00353	.0131
#2	.00023	-.00107	.00405	.0119
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10223.**	**10924.**	**64706.**	**5786.0**
Stddev	21.	26.	168.	26.8
%RSD	.20056	.23995	.26002	.46373
#1	10209.	10905.	64587.	5767.0
#2	10238.	10942.	64825.	5805.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.839%	86.415%	85.698%	96.387%
Range				

Sample Name: 480-212997-E-6-A Acquired: 10/8/2023 13:55:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.04824**	**.00182**	**.09705**	**.17725**
Stddev	.00082	.03301	.00160	.00079	.00018
%RSD	109.67	68.427	88.017	.81776	.10114
#1	.00017	.07158	.00069	.09761	.17713
#2	.00133	.02490	.00295	.09649	.17738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**758.61**	**.00006**	**.0047**	**-.00016**
Stddev	.00015	9.28	.00015	.0062	.00014
%RSD	84.151	1.2227	256.02	130.0	84.497
#1	.00007	765.17	.00016	.0004	-.00026
#2	.00028	752.05	-.00005	.0091	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00166**	**-.00053**	**.29889**	**7.2969**	**-.00132**
Stddev	.00020	.00079	.00428	.0219	.00215
%RSD	11.844	149.44	1.4325	.30000	162.57
#1	.00152	-.00109	.30191	7.2814	-.00284
#2	.00180	.00003	.29586	7.3124	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-6-A Acquired: 10/8/2023 13:55:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.357**	**.29718**	**.00220**	**282.21**	**-.00101**
Stddev	.021	.00033	.00004	1.20	.00012
%RSD	.03234	.11084	1.8661	.42608	11.536
#1	64.342	.29741	.00223	283.06	-.00093
#2	64.372	.29694	.00218	281.36	-.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4513**	**.00424**	F **168.71**	**-.01045**	**-.00245**
Stddev	.0029	.00043	.04	.00265	.00111
%RSD	.6319	10.189	.02096	25.402	45.359
#1	.4533	.00394	168.74	-.00857	-.00167
#2	.4493	.00455	168.69	-.01233	-.00324
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9412**	**-.00019**	**3.7375**	**-.0263**	**.00486**
Stddev	.0008	.00006	.0003	.0065	.00026
%RSD	.01925	30.879	.00734	24.67	5.3097
#1	3.9417	-.00015	3.7377	-.0217	.00468
#2	3.9407	-.00023	3.7374	-.0309	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-6-A Acquired: 10/8/2023 13:55:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00175**	**-.00108**	**.00096**	**.0125**
Stddev	.00011	.00058	.00015	.0003
%RSD	6.4671	53.522	15.887	2.662
#1	.00183	-.00067	.00107	.0123
#2	.00167	-.00149	.00085	.0128
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10490.**	**11124.**	**65940.**	**5774.8**
Stddev	11.	28.	135.	38.8
%RSD	.10429	.24758	.20484	.67131
#1	10483.	11105.	65844.	5747.4
#2	10498.	11144.	66035.	5802.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.821%	88.002%	87.332%	96.200%
Range				

Sample Name: 480-212997-E-7-A Acquired: 10/8/2023 13:58:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.16349**	**.00380**	**.01853**	**.89737**
Stddev	.00041	.02518	.00095	.00022	.00389
%RSD	153.95	15.400	25.127	1.1823	.43297
#1	-.00002	.18130	.00447	.01837	.90011
#2	.00055	.14569	.00312	.01868	.89462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**818.98**	**-.00038**	**-.0781**	**-.00036**
Stddev	.00003	3.79	.00019	.0152	.00011
%RSD	66.930	.46313	50.654	19.48	29.696
#1	.00006	816.29	-.00025	-.0888	-.00043
#2	.00002	821.66	-.00052	-.0673	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**.00009**	**.01364**	**18.562**	**.06870**
Stddev	.00010	.00060	.00333	.095	.00127
%RSD	9.7441	672.38	24.384	.51037	1.8555
#1	.00106	-.00033	.01129	18.629	.06961
#2	.00092	.00051	.01599	18.495	.06780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-7-A Acquired: 10/8/2023 13:58:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34375**	**.00208**	**.00383**	**61.209**	**.00081**
Stddev	.00428	.00005	.00009	.377	.00009
%RSD	1.2460	2.5731	2.4253	.61598	11.290
#1	.34678	.00211	.00376	61.475	.00087
#2	.34072	.00204	.00390	60.942	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4421**	**.00427**	**39.972**	**-.01110**	**-.00260**
Stddev	.0008	.00063	.057	.00070	.00453
%RSD	.1759	14.862	.14358	6.3134	174.13
#1	.4427	.00471	39.932	-.01061	.00060
#2	.4416	.00382	40.013	-.01160	-.00581
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24329**	**-.00048**	**2.9362**	**-.0320**	**.00505**
Stddev	.00581	.00024	.0092	.0208	.00001
%RSD	2.3863	51.019	.31270	64.91	.18005
#1	.23918	-.00030	2.9427	-.0173	.00506
#2	.24739	-.00065	2.9297	-.0467	.00505
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-7-A Acquired: 10/8/2023 13:58:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00086**	**.00087**	**.00120**	**.0116**
Stddev	.00142	.00017	.00002	.0034
%RSD	166.09	19.075	1.6353	29.03
#1	.00186	.00075	.00119	.0140
#2	-.00015	.00098	.00122	.0092
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10794.**	**11417.**	**67596.**	**5892.9**
Stddev	12.	23.	208.	7.1
%RSD	.11079	.20111	.30698	.11982
#1	10786.	11401.	67450.	5897.9
#2	10803.	11433.	67743.	5888.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.076%	90.318%	89.526%	98.169%
Range				

Sample Name: 480-212997-E-8-A Acquired: 10/8/2023 14:02:41 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.01715**	**.00014**	**.03918**	**.05364**
Stddev	.00050	.05345	.00008	.00007	.00020
%RSD	192.52	311.65	56.294	.18342	.36493
#1	.00061	.05495	.00020	.03923	.05350
#2	-.00009	-.02064	.00008	.03913	.05378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**686.40**	**.00050**	**-.0611**	**-.00010**
Stddev	.00004	.56	.00011	.0327	.00010
%RSD	25.064	.08106	22.816	53.55	94.842
#1	.00019	686.79	.00042	-.0380	-.00017
#2	.00013	686.01	.00058	-.0843	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00137**	**1.7777**	**3.5776**	**-.00447**
Stddev	.00015	.00112	.0039	.0124	.00220
%RSD	32.493	81.510	.21750	.34622	49.285
#1	.00035	-.00058	1.7804	3.5863	-.00291
#2	.00056	-.00216	1.7749	3.5688	-.00603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-8-A Acquired: 10/8/2023 14:02:41 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**183.19**	**.12200**	**.00006**	**101.47**	**-.00142**
Stddev	1.05	.00014	.00007	.00	.00053
%RSD	.57549	.11415	123.98	.00070	37.324
#1	182.45	.12190	.00001	101.47	-.00105
#2	183.94	.12210	.00010	101.47	-.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4437**	**.00583**	F **598.67**	**-.01225**	**-.00163**
Stddev	.0027	.00068	.11	.00190	.00199
%RSD	.6021	11.681	.01761	15.481	121.77
#1	.4418	.00631	598.74	-.01359	-.00023
#2	.4456	.00535	598.60	-.01091	-.00304
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4193**	**-.00042**	**4.8024**	**-.0303**	**.00498**
Stddev	.0433	.00044	.0034	.0109	.00049
%RSD	.58336	103.68	.07192	36.01	9.8136
#1	7.4499	-.00073	4.8048	-.0226	.00464
#2	7.3887	-.00011	4.7999	-.0380	.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-8-A Acquired: 10/8/2023 14:02:41 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00157**	**.00177**	**.0130**
Stddev	.00002	.00044	.00026	.0015
%RSD	83.874	28.105	14.789	11.51
#1	-.00001	-.00188	.00159	.0140
#2	-.00004	-.00125	.00196	.0119
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10693.**	**11212.**	**67040.**	**5772.8**
Stddev	7.	3.	6.	19.1
%RSD	.06211	.03008	.00849	.33080
#1	10688.	11210.	67036.	5759.3
#2	10697.	11215.	67045.	5786.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.321%	88.697%	88.790%	96.167%
Range				

Sample Name: 480-212997-E-9-A Acquired: 10/8/2023 14:06:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.01061**	**.00333**	**.00677**	**.52103**
Stddev	.00074	.05465	.00335	.00062	.00230
%RSD	445.31	514.99	100.77	9.1187	.44176
#1	.00069	.04925	.00096	.00634	.51941
#2	-.00036	-.02803	.00570	.00721	.52266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**876.15**	**-.00054**	**-.0206**	**-.00005**
Stddev	.00006	10.24	.00002	.0250	.00022
%RSD	131.53	1.1692	4.4188	121.7	417.39
#1	.00000	883.40	-.00052	-.0382	-.00021
#2	.00010	868.91	-.00055	-.0029	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**-.00031**	**.00887**	**15.424**	**.00995**
Stddev	.00009	.00045	.00087	.165	.00030
%RSD	5.0118	143.67	9.7944	1.0670	2.9971
#1	.00169	-.00063	.00949	15.540	.01017
#2	.00181	.00000	.00826	15.307	.00974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-9-A Acquired: 10/8/2023 14:06:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01787**	**.00022**	**.00878**	**38.584**	**.00088**
Stddev	.00206	.00001	.00030	.307	.00043
%RSD	11.546	2.3836	3.4508	.79614	49.447
#1	.01932	.00023	.00900	38.801	.00118
#2	.01641	.00022	.00857	38.366	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4305**	**.00537**	**44.589**	**-.01472**	**-.00271**
Stddev	.0017	.00033	.025	.00425	.00289
%RSD	.3936	6.1671	.05538	28.844	106.50
#1	.4317	.00513	44.606	-.01773	-.00475
#2	.4293	.00560	44.571	-.01172	-.00067
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11482**	**-.00021**	**1.4229**	**-.0193**	**.00580**
Stddev	.00126	.00064	.0100	.0150	.00023
%RSD	1.0956	311.30	.70353	77.83	4.0367
#1	.11571	.00025	1.4299	-.0299	.00597
#2	.11393	-.00066	1.4158	-.0087	.00564
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-9-A Acquired: 10/8/2023 14:06:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00032**	**.00258**	**.0105**
Stddev	.00175	.00028	.00009	.0011
%RSD	265.57	89.145	3.3135	10.74
#1	-.00058	.00012	.00252	.0097
#2	.00189	.00052	.00264	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10769.**	**11367.**	**67164.**	**5836.4**
Stddev	26.	29.	241.	12.7
%RSD	.23801	.25898	.35815	.21750
#1	10751.	11346.	67334.	5827.4
#2	10788.	11387.	66993.	5845.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.891%	89.918%	88.953%	97.227%
Range				

Sample Name: 480-212997-E-10-A Acquired: 10/8/2023 14:10:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.75984**	**.00304**	**.06172**	**.03070**
Stddev	.00170	.01797	.00112	.00052	.00003
%RSD	2186.1	2.3645	36.840	.84838	.09896
#1	-.00112	.77255	.00383	.06210	.03068
#2	.00128	.74714	.00225	.06135	.03072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**576.49**	**.00041**	**-.0020**	**.00036**
Stddev	.00001	5.92	.00009	.0133	.00004
%RSD	2.8741	1.0269	22.237	665.4	10.201
#1	.00022	580.68	.00035	.0074	.00038
#2	.00023	572.31	.00048	-.0114	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04588**	**-.00169**	**.80179**	**27.077**	**.11764**
Stddev	.00066	.00032	.00591	.107	.00038
%RSD	1.4402	18.961	.73701	.39605	.32701
#1	.04541	-.00146	.79762	27.153	.11737
#2	.04634	-.00192	.80597	27.001	.11791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-10-A Acquired: 10/8/2023 14:10:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**100.70**	**.03804**	**.00896**	**99.986**	**.01037**
Stddev	.08	.00007	.00013	.538	.00034
%RSD	.08435	.19269	1.4967	.53793	3.2339
#1	100.76	.03809	.00886	99.606	.01061
#2	100.64	.03799	.00905	100.37	.01013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4560**	**.00528**	F **678.19**	**-.00914**	**-.00346**
Stddev	.0009	.00137	.08	.00410	.00248
%RSD	.1985	25.843	.01239	44.819	71.605
#1	.4554	.00432	678.25	-.01204	-.00521
#2	.4567	.00625	678.13	-.00624	-.00171
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2611**	**-.00046**	**6.1629**	**-.0191**	**.02466**
Stddev	.0196	.00014	.0932	.0234	.00012
%RSD	.23719	30.539	1.5126	122.4	.49150
#1	8.2750	-.00036	6.2288	-.0026	.02474
#2	8.2473	-.00056	6.0970	-.0357	.02457
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-10-A Acquired: 10/8/2023 14:10:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00037**	**.00668**	**.0147**
Stddev	.00137	.00001	.00005	.0041
%RSD	463.36	3.9588	.76782	27.78
#1	.00067	.00036	.00664	.0176
#2	-.00126	.00038	.00671	.0118
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10935.**	**11461.**	**67899.**	**5903.4**
Stddev	3.	4.	303.	54.3
%RSD	.02933	.03657	.44564	.92038
#1	10937.	11458.	67685.	5865.0
#2	10933.	11464.	68113.	5941.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.120%	90.666%	89.927%	98.343%
Range				

Sample Name: 480-212997-E-11-A Acquired: 10/8/2023 14:14:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.04884**	**.00187**	**.02281**	**.39166**
Stddev	.00013	.01295	.00061	.00029	.00146
%RSD	27.929	26.522	32.781	1.2921	.37316
#1	.00037	.03968	.00144	.02260	.39063
#2	.00055	.05800	.00231	.02302	.39269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**420.98**	**-.00001**	**-.0238**	**-.00030**
Stddev	.00004	2.15	.00011	.0280	.00002
%RSD	57.426	.51074	1020.9	117.6	5.4596
#1	.00004	419.46	-.00009	-.0437	-.00029
#2	.00010	422.50	.00007	-.0040	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00387**	**.00803**	**20.107**	**.02452**
Stddev	.00036	.00047	.00464	.142	.00187
%RSD	99.548	12.158	57.734	.70455	7.6338
#1	.00061	-.00354	.00475	20.007	.02320
#2	.00011	-.00420	.01131	20.208	.02585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-11-A Acquired: 10/8/2023 14:14:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.181**	**.01144**	**.00419**	**108.25**	**.00378**
Stddev	.044	.00001	.00007	.28	.00068
%RSD	.33701	.04696	1.7657	.26323	18.029
#1	13.149	.01143	.00424	108.05	.00330
#2	13.212	.01144	.00414	108.46	.00427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4360**	**.00267**	F **116.41**	**-.00638**	**-.00204**
Stddev	.0029	.00006	.10	.00009	.00131
%RSD	.6662	2.4115	.08959	1.3463	64.111
#1	.4380	.00271	116.34	-.00644	-.00297
#2	.4339	.00262	116.49	-.00632	-.00112
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5916**	**-.00024**	**2.6889**	**-.0126**	**.00258**
Stddev	.0020	.00037	.0055	.0103	.00049
%RSD	.12671	154.71	.20310	81.83	19.092
#1	1.5930	.00002	2.6851	-.0198	.00223
#2	1.5901	-.00050	2.6928	-.0053	.00293
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-11-A Acquired: 10/8/2023 14:14:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00006**	**.00435**	**.0136**
Stddev	.00107	.00011	.00015	.0002
%RSD	8192.2	191.09	3.5510	1.528
#1	.00077	-.00002	.00446	.0138
#2	-.00074	.00013	.00424	.0135
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11322.**	**11669.**	**69225.**	**5928.3**
Stddev	16.	11.	180.	35.1
%RSD	.14053	.09022	.26065	.59131
#1	11333.	11676.	69353.	5953.0
#2	11311.	11661.	69098.	5903.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.991%	92.308%	91.683%	98.757%
Range				

Sample Name: 480-212997-E-12-A Acquired: 10/8/2023 14:18:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.39058**	**.00322**	**.01578**	**1.0027**
Stddev	.00010	.01043	.00007	.00011	.0031
%RSD	13.371	2.6705	2.2974	.71796	.30568
#1	.00065	.39796	.00317	.01586	1.0049
#2	.00078	.38321	.00327	.01570	1.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**823.56**	**-.00045**	**-.0325**	**-.00011**
Stddev	.00006	1.98	.00005	.0398	.00006
%RSD	18.138	.24082	10.511	122.7	54.982
#1	.00028	822.16	-.00041	-.0606	-.00006
#2	.00036	824.96	-.00048	-.0043	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**-.00158**	**.00917**	**32.807**	**.06748**
Stddev	.00017	.00001	.00019	.001	.00282
%RSD	19.521	.54186	2.0357	.00264	4.1769
#1	.00076	-.00159	.00930	32.807	.06948
#2	.00101	-.00158	.00904	32.808	.06549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-12-A Acquired: 10/8/2023 14:18:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00016**	**.00531**	**90.804**	**.00112**
Stddev	.00153	.00000	.00014	.467	.00001
%RSD	506.15	1.7971	2.6947	.51463	.81635
#1	.00078	.00016	.00521	90.473	.00113
#2	-.00138	.00015	.00541	91.134	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4508**	**.00476**	**32.715**	**-.01218**	**.00124**
Stddev	.0011	.00147	.555	.00373	.00015
%RSD	.2493	30.861	1.6977	30.616	11.996
#1	.4516	.00580	33.108	-.00954	.00134
#2	.4500	.00372	32.322	-.01481	.00113
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33128**	**.00006**	**3.4424**	**-.0295**	**.00465**
Stddev	.01429	.00083	.0084	.0025	.00003
%RSD	4.3139	1352.2	.24385	8.451	.67107
#1	.32117	.00065	3.4483	-.0313	.00462
#2	.34138	-.00052	3.4365	-.0278	.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212997-E-12-A Acquired: 10/8/2023 14:18:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00160**	**.00060**	**.00517**	**.0099**
Stddev	.00101	.00018	.00010	.0025
%RSD	63.194	29.322	1.9301	24.85
#1	-.00231	.00073	.00510	.0116
#2	-.00088	.00048	.00524	.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10816.**	**11468.**	**67833.**	**5903.9**
Stddev	152.	148.	175.	16.2
%RSD	1.4009	1.2921	.25763	.27428
#1	10708.	11363.	67710.	5915.4
#2	10923.	11573.	67957.	5892.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.234%	90.723%	89.840%	98.352%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 14:21:52 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0228**	**48.749**	**1.0054**	**1.0269**	**.99071**
Stddev	.0009	.093	.0005	.0007	.00010
%RSD	.09038	.19078	.05068	.07047	.01003
#1	1.0222	48.815	1.0058	1.0274	.99078
#2	1.0235	48.683	1.0051	1.0264	.99064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96084**	**48.058**	**1.0024**	**.9255**	**.98768**
Stddev	.00095	.068	.0013	.0264	.00144
%RSD	.09868	.14190	.13282	2.857	.14609
#1	.96151	48.010	1.0033	.9068	.98870
#2	.96017	48.106	1.0015	.9442	.98666
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0363**	**.99129**	**49.113**	**47.380**	**.91406**
Stddev	.0003	.00064	.016	.072	.00123
%RSD	.02591	.06487	.03169	.15214	.13403
#1	1.0361	.99084	49.102	47.431	.91492
#2	1.0365	.99175	49.124	47.329	.91319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 14:21:52 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.502**	**.97659**	**1.0300**	**47.090**	**.98038**
Stddev	.062	.00137	.0021	.082	.00193
%RSD	.12179	.14067	.20021	.17351	.19705
#1	50.458	.97757	1.0314	47.147	.98174
#2	50.545	.97562	1.0285	47.032	.97901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.54**	**.99143**	**25.599**	**1.0017**	**.99283**
Stddev	.04	.00041	.006	.0014	.00307
%RSD	.1370	.04149	.02495	.14388	.30965
#1	25.57	.99172	25.604	1.0027	.99500
#2	25.52	.99114	25.595	1.0006	.99066
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6365**	**.98486**	**.99489**	**.9831**	**1.0057**
Stddev	.0181	.00134	.00086	.0032	.0002
%RSD	.18747	.13634	.08614	.3250	.02407
#1	9.6238	.98581	.99549	.9809	1.0059
#2	9.6493	.98391	.99428	.9854	1.0055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 14:21:52 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99357**	**1.0207**	**1.0287**	**.9957**
Stddev	.00091	.0013	.0001	.0054
%RSD	.09199	.12855	.00952	.5447
#1	.99421	1.0216	1.0288	.9919
#2	.99292	1.0197	1.0286	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11893.**	**12339.**	**71823.**	**5953.6**
Stddev	38.	37.	44.	5.0
%RSD	.32318	.30159	.06132	.08420
#1	11865.	12313.	71854.	5950.1
#2	11920.	12365.	71792.	5957.2

Sample Name: CCB-7506043 Acquired: 10/8/2023 14:25:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.01156**	**-.00075**	**.00018**	**.00003**
Stddev	.00099	.02581	.00005	.00007	.00004
%RSD	81.995	223.22	6.5633	41.363	113.21
#1	.00191	.02981	-.00072	.00013	.00001
#2	.00051	-.00669	-.00079	.00023	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00436**	**.00001**	**.0279**	**-.00010**
Stddev	.00011	.00484	.00005	.0071	.00001
%RSD	111.87	111.07	399.71	25.65	11.113
#1	.00017	-.00778	.00005	.0228	-.00009
#2	.00002	-.00094	-.00002	.0329	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00758**	**.00001**	**.13118**	**-.00286**
Stddev	.00025	.00048	.00171	.03680	.00040
%RSD	102.89	6.2953	20510.	28.052	14.015
#1	.00043	-.00724	.00122	.15720	-.00314
#2	.00007	-.00792	-.00120	.10516	-.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 14:25:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00184**	**.00001**	**-.00005**	**-.00017**	**.00001**
Stddev	.00284	.00006	.00019	.00634	.00005
%RSD	154.50	780.45	379.09	3780.8	358.40
#1	-.00385	.00005	.00009	.00431	-.00002
#2	.00017	-.00003	-.00019	-.00465	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4174**	**-.00141**	**.03505**	**-.00074**	**-.00012**
Stddev	.0009	.00030	.00028	.00122	.00134
%RSD	.2207	21.229	.79193	164.82	1154.8
#1	.4180	-.00120	.03486	.00012	.00083
#2	.4167	-.00162	.03525	-.00160	-.00106
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02397**	**-.00025**	**-.00003**	**-.0110**	**.00004**
Stddev	.01106	.00039	.00005	.0096	.00014
%RSD	46.152	153.40	157.10	86.76	349.47
#1	-.03179	.00002	.00000	-.0043	-.00006
#2	-.01615	-.00053	-.00006	-.0178	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 14:25:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.00015**	**-.00040**	**.0098**
Stddev	.00092	.00002	.00002	.0002
%RSD	76.453	12.571	5.1326	2.357
#1	-.00055	.00016	-.00038	.0100
#2	-.00185	.00013	-.00041	.0097
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13603.**	**12732.**	**75154.**	**6029.3**
Stddev	29.	22.	321.	42.0
%RSD	.21033	.17162	.42701	.69695
#1	13623.	12747.	75381.	6059.0
#2	13583.	12716.	74927.	5999.6

Sample Name: CCVL-7610998 Acquired: 10/8/2023 14:29:09 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00703**	**.17378**	**.01470**	**.02020**	**.00210**
Stddev	.00018	.01956	.00056	.00024	.00001
%RSD	2.5749	11.255	3.8352	1.1802	.47071
#1	.00715	.18761	.01430	.02037	.00209
#2	.00690	.15995	.01510	.02003	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.49834**	**.00227**	**.0133**	**.00375**
Stddev	.00010	.00063	.00013	.0078	.00006
%RSD	5.0986	.12566	5.8063	58.17	1.5534
#1	.00197	.49878	.00236	.0078	.00371
#2	.00212	.49789	.00218	.0188	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	F **.00404**	**.04873**	**.55639**	**.02678**
Stddev	.00004	.00056	.00062	.03820	.00105
%RSD	.83108	13.840	1.2706	6.8666	3.9334
#1	.00436	.00365	.04917	.58340	.02603
#2	.00441	.00444	.04829	.52937	.02752
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 14:29:09 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20537**	**.00314**	**.01101**	**.97126**	**.00920**
Stddev	.00089	.00002	.00012	.00965	.00040
%RSD	.43494	.50475	1.0686	.99332	4.3447
#1	.20601	.00315	.01093	.96444	.00892
#2	.20474	.00313	.01110	.97808	.00949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4174**	**.00815**	**.23932**	**.02149**	**.02307**
Stddev	.0012	.00154	.00096	.00127	.00300
%RSD	.2875	18.911	.40148	5.9319	12.996
#1	.4182	.00924	.23864	.02239	.02095
#2	.4165	.00706	.24000	.02059	.02519
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46408**	**.00950**	**.00509**	F **-.0169**	**.00502**
Stddev	.02871	.00022	.00001	.0029	.00014
%RSD	6.1855	2.3428	.13508	17.02	2.7370
#1	.44378	.00934	.00510	-.0190	.00492
#2	.48437	.00966	.00509	-.0149	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 14:29:09 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02029**	**.00533**	**.01028**	F **.0124**
Stddev	.00095	.00028	.00017	.0005
%RSD	4.6708	5.2446	1.6751	4.160
#1	.02096	.00513	.01040	.0120
#2	.01962	.00553	.01016	.0128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13430.**	**12669.**	**75088.**	**6003.6**
Stddev	21.	29.	355.	21.1
%RSD	.15298	.23095	.47282	.35222
#1	13416.	12649.	74837.	5988.7
#2	13445.	12690.	75339.	6018.6

Sample Name: 480-212984-A-7-A Acquired: 10/8/2023 14:32:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.79300**	**.02977**	**.14008**	**.24814**
Stddev	.00039	.02759	.00096	.00034	.00218
%RSD	49.721	3.4794	3.2267	.24328	.87911
#1	.00107	.81251	.02909	.13984	.24660
#2	.00051	.77349	.03045	.14032	.24968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**151.34**	**.00030**	**-.0248**	**.00129**
Stddev	.00008	1.31	.00007	.0161	.00015
%RSD	34.271	.86382	23.897	64.73	11.423
#1	.00029	152.27	.00025	-.0135	.00119
#2	.00017	150.42	.00035	-.0362	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**-.00332**	**34.334**	**3.1398**	**-.00482**
Stddev	.00032	.00014	.176	.0515	.00291
%RSD	25.970	4.1979	.51165	1.6397	60.322
#1	.00101	-.00342	34.458	3.1762	-.00687
#2	.00146	-.00323	34.209	3.1034	-.00276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-7-A Acquired: 10/8/2023 14:32:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.890**	**2.6508**	**-.00002**	**22.802**	**.00538**
Stddev	.366	.0201	.00015	.231	.00018
%RSD	.62199	.75979	962.86	1.0144	3.3300
#1	58.631	2.6650	-.00012	22.966	.00551
#2	59.149	2.6365	.00009	22.639	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5400**	**.00859**	**.82477**	**.00640**	**-.00042**
Stddev	.0004	.00029	.00170	.00101	.00166
%RSD	.0721	3.4329	.20571	15.728	399.14
#1	.5403	.00880	.82597	.00711	.00076
#2	.5398	.00838	.82357	.00569	-.00159
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6734**	**-.00036**	**.36422**	**.0012**	**.01062**
Stddev	.0947	.00080	.00198	.0277	.00109
%RSD	1.2346	220.24	.54488	2215.	10.268
#1	7.7404	-.00093	.36562	-.0183	.00985
#2	7.6064	.00020	.36281	.0208	.01139
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-7-A Acquired: 10/8/2023 14:32:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00220**	**.00166**	**.01119**	**.0137**
Stddev	.00191	.00008	.00007	.0038
%RSD	86.947	5.0259	.60048	27.50
#1	-.00085	.00172	.01123	.0164
#2	-.00356	.00160	.01114	.0110
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12037.**	**12266.**	**72088.**	**5999.8**
Stddev	30.	22.	164.	6.0
%RSD	.24863	.18297	.22713	.09966
#1	12058.	12282.	72204.	6004.0
#2	12016.	12250.	71973.	5995.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.295%	97.034%	95.475%	99.949%
Range				

Sample Name: 480-212984-A-5-A Acquired: 10/8/2023 14:36:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.12241**	**.03834**	**.12354**	**.26450**
Stddev	.00029	.01203	.00044	.00004	.00019
%RSD	67.839	9.8286	1.1456	.02914	.07062
#1	.00063	.13092	.03803	.12352	.26464
#2	.00022	.11390	.03865	.12357	.26437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**147.79**	**.00049**	**.0548**	**-.00012**
Stddev	.00023	.16	.00001	.0135	.00010
%RSD	2307.7	.10488	2.9511	24.68	85.041
#1	-.00017	147.90	.00050	.0452	-.00005
#2	.00015	147.68	.00048	.0643	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00559**	**16.371**	**4.5676**	**.00241**
Stddev	.00028	.00016	.041	.0360	.00186
%RSD	69.135	2.9318	.25328	.78839	77.079
#1	.00021	-.00570	16.400	4.5931	.00110
#2	.00060	-.00547	16.342	4.5422	.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-5-A Acquired: 10/8/2023 14:36:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.448**	**1.3226**	**-.00018**	**41.016**	**.00375**
Stddev	.028	.0022	.00026	.096	.00006
%RSD	.03943	.16993	146.12	.23400	1.5070
#1	71.428	1.3242	.00001	41.084	.00371
#2	71.468	1.3210	-.00036	40.948	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4660**	**.00524**	**4.8926**	**.00165**	**-.00017**
Stddev	.0001	.00047	.0057	.00200	.00217
%RSD	.0276	9.0015	.11759	121.08	1254.7
#1	.4661	.00491	4.8967	.00024	.00136
#2	.4659	.00557	4.8886	.00307	-.00170
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.103**	**.00000**	**.43751**	**-.0209**	**.00289**
Stddev	.022	.00056	.00065	.0252	.00027
%RSD	.21716	15365.	.14892	120.5	9.5055
#1	10.119	-.00039	.43797	-.0387	.00270
#2	10.088	.00040	.43705	-.0031	.00308
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-5-A Acquired: 10/8/2023 14:36:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00113**	**-.00043**	**.00377**	**.0151**
Stddev	.00030	.00021	.00005	.0035
%RSD	26.578	48.021	1.3348	22.87
#1	-.00134	-.00058	.00380	.0127
#2	-.00092	-.00028	.00373	.0176
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11810.**	**12015.**	**70970.**	**5948.2**
Stddev	15.	10.	.	21.8
%RSD	.12870	.08624	.00027	.36571
#1	11799.	12008.	70970.	5963.6
#2	11820.	12023.	70970.	5932.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.608%	95.051%	93.994%	99.089%
Range				

Sample Name: 480-212984-A-3-A Acquired: 10/8/2023 14:40:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**.07829**	**.01064**	**.25236**	**.15980**
Stddev	.00088	.01453	.00021	.00050	.00006
%RSD	94.616	18.558	1.9396	.19701	.03906
#1	.00155	.06802	.01078	.25201	.15976
#2	.00031	.08856	.01049	.25271	.15984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**126.66**	**.00051**	**-.0034**	**.00010**
Stddev	.00002	.13	.00016	.0140	.00009
%RSD	29.015	.10555	30.883	408.4	85.758
#1	.00009	126.76	.00040	-.0133	.00004
#2	.00006	126.57	.00062	.0065	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.00310**	**4.9354**	**3.4261**	**.00057**
Stddev	.00027	.00022	.0218	.0432	.00044
%RSD	63.183	6.9606	.44142	1.2621	76.983
#1	.00024	-.00326	4.9200	3.3955	.00089
#2	.00062	-.00295	4.9508	3.4566	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-3-A Acquired: 10/8/2023 14:40:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.320**	**.63998**	**.00028**	**106.97**	**.01032**
Stddev	.001	.00032	.00004	.53	.00028
%RSD	.00175	.04963	12.671	.49351	2.7098
#1	63.319	.64021	.00026	106.59	.01052
#2	63.321	.63976	.00031	107.34	.01013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4338**	**.00278**	**9.7625**	**-.00058**	**-.00045**
Stddev	.0024	.00057	.0024	.00169	.00161
%RSD	.5631	20.418	.02474	293.60	359.28
#1	.4321	.00238	9.7643	-.00177	-.00159
#2	.4356	.00318	9.7608	.00062	.00069
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7951**	**.00236**	**.35048**	**-.0195**	**.00181**
Stddev	.0479	.00022	.00075	.0147	.00012
%RSD	.54477	9.2674	.21453	75.03	6.8053
#1	8.7612	.00251	.34995	-.0092	.00173
#2	8.8289	.00220	.35101	-.0299	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-3-A Acquired: 10/8/2023 14:40:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00115**	**-.00035**	**.02263**	**.0129**
Stddev	.00030	.00008	.00029	.0004
%RSD	25.951	22.782	1.2606	2.751
#1	-.00094	-.00029	.02243	.0127
#2	-.00136	-.00041	.02283	.0132
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11716.**	**11977.**	**70478.**	**5902.5**
Stddev	35.	46.	53.	17.7
%RSD	.29696	.38585	.07459	.29976
#1	11691.	11944.	70441.	5890.0
#2	11740.	12009.	70515.	5915.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.912%	94.746%	93.343%	98.328%
Range				

Sample Name: 480-212984-A-1-A Acquired: 10/8/2023 14:43:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.27672**	**.04886**	**.19725**	**.32522**
Stddev	.00036	.00357	.00179	.00021	.00023
%RSD	74.339	1.2910	3.6652	.10860	.07068
#1	.00074	.27925	.04760	.19710	.32506
#2	.00023	.27420	.05013	.19741	.32538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**125.67**	**.00058**	**-.0238**	**.00007**
Stddev	.00008	1.00	.00015	.0078	.00004
%RSD	38.245	.79597	25.296	32.86	59.114
#1	.00025	126.38	.00047	-.0183	.00004
#2	.00015	124.96	.00068	-.0293	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**-.00195**	**24.728**	**4.3818**	**-.00679**
Stddev	.00030	.00090	.022	.0152	.00240
%RSD	32.386	46.343	.09044	.34706	35.308
#1	.00112	-.00259	24.743	4.3711	-.00510
#2	.00070	-.00131	24.712	4.3926	-.00849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-1-A Acquired: 10/8/2023 14:43:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.949**	**1.6125**	**-.00037**	**204.63**	**.00476**
Stddev	.095	.0007	.00002	.98	.00013
%RSD	.11844	.04461	5.0760	.48031	2.7990
#1	79.882	1.6130	-.00036	205.33	.00486
#2	80.016	1.6119	-.00038	203.94	.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5499**	**.01041**	**.75451**	**.00350**	**-.00205**
Stddev	.0000	.00071	.00358	.00049	.00369
%RSD	.0034	6.7962	.47458	14.102	179.59
#1	.5500	.00991	.75197	.00315	.00055
#2	.5499	.01091	.75704	.00385	-.00466
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9379**	**.00228**	**.49421**	**-.0091**	**.00457**
Stddev	.0049	.00047	.00168	.0004	.00014
%RSD	.05521	20.471	.33941	4.410	2.9919
#1	8.9344	.00262	.49540	-.0093	.00447
#2	8.9414	.00195	.49302	-.0088	.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212984-A-1-A Acquired: 10/8/2023 14:43:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00019**	**.00918**	**.0104**
Stddev	.00026	.00028	.00014	.0003
%RSD	1659.5	151.90	1.5090	3.119
#1	-.00020	-.00001	.00928	.0102
#2	.00017	.00038	.00909	.0107
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11429.**	**11902.**	**70186.**	**5857.3**
Stddev	5.	4.	98.	41.1
%RSD	.04657	.03463	.14004	.70183
#1	11425.	11899.	70255.	5828.2
#2	11432.	11905.	70116.	5886.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.781%	94.152%	92.955%	97.575%
Range				

Sample Name: 480-212960-C-98-A Acquired: 10/8/2023 14:47:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.20880**	**-.00041**	**.00152**	**.00029**
Stddev	.00103	.00923	.00045	.00017	.00002
%RSD	198.97	4.4220	110.99	11.119	8.4853
#1	-.00021	.20227	-.00073	.00164	.00028
#2	.00125	.21533	-.00009	.00140	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.03892**	**-.00002**	**.0218**	**-.00004**
Stddev	.00001	.00361	.00004	.0165	.00017
%RSD	6.6042	9.2718	258.69	75.82	493.51
#1	.00016	.03637	.00001	.0101	-.00016
#2	.00014	.04147	-.00004	.0335	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**-.00522**	**.01485**	**.09718**	**-.00161**
Stddev	.00007	.00019	.00185	.07434	.00124
%RSD	11.937	3.6757	12.437	76.494	76.965
#1	.00064	-.00509	.01616	.14974	-.00073
#2	.00054	-.00536	.01355	.04462	-.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-C-98-A Acquired: 10/8/2023 14:47:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.00046**	**.00014**	**.17095**	**.00002**
Stddev	.00099	.00000	.00006	.02153	.00023
%RSD	64.603	.24969	44.870	12.592	1114.5
#1	.00084	.00046	.00010	.18617	-.00014
#2	.00224	.00047	.00018	.15573	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4165**	**-.00099**	**.03738**	**-.00005**	**-.00029**
Stddev	.0024	.00013	.00092	.00125	.00178
%RSD	.5734	12.961	2.4646	2560.5	605.36
#1	.4148	-.00090	.03673	-.00093	.00096
#2	.4181	-.00108	.03803	.00083	-.00155
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**.00213**	**-.00000**	**-.0032**	**.00018**
Stddev	.02155	.00029	.00006	.0085	.00001
%RSD	1883.0	13.594	2594.7	266.3	6.6961
#1	.01638	.00193	-.00004	-.0092	.00019
#2	-.01409	.00234	.00004	.0028	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-C-98-A Acquired: 10/8/2023 14:47:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.00031**	**.00426**	**.0137**
Stddev	.00140	.00002	.00021	.0020
%RSD	181.25	8.0560	4.8970	14.41
#1	.00022	.00029	.00411	.0151
#2	-.00176	.00032	.00441	.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13581.**	**12813.**	**75798.**	**6005.0**
Stddev	9.	.	139.	3.5
%RSD	.06413	.00088	.18387	.05823
#1	13574.	12813.	75699.	6007.4
#2	13587.	12813.	75896.	6002.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.75%	101.36%	100.39%	100.04%
Range				

Sample Name: 480-212960-C-97-A Acquired: 10/8/2023 14:51:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**.06004**	**.00004**	**.00134**	**.00387**
Stddev	.00050	.02491	.00163	.00010	.00005
%RSD	37.849	41.482	3816.5	7.3225	1.3518
#1	.00167	.04243	.00120	.00127	.00384
#2	.00096	.07765	-.00111	.00141	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.37751**	**.00001**	**-.0086**	**.00031**
Stddev	.00014	.00136	.00014	.0189	.00002
%RSD	221.11	.36145	987.58	218.8	5.3068
#1	.00016	.37848	-.00009	-.0220	.00032
#2	-.00003	.37655	.00012	.0047	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**-.00635**	**.04480**	**.12921**	**-.00222**
Stddev	.00021	.00007	.00336	.07335	.00151
%RSD	8.7659	1.1273	7.5015	56.766	67.955
#1	.00252	-.00630	.04718	.18108	-.00329
#2	.00223	-.00640	.04242	.07735	-.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-C-97-A Acquired: 10/8/2023 14:51:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05865**	**.00589**	**.00057**	**.12202**	**.00157**
Stddev	.00284	.00003	.00006	.00624	.00014
%RSD	4.8482	.54352	10.255	5.1174	9.1088
#1	.05664	.00586	.00061	.12644	.00147
#2	.06066	.00591	.00053	.11761	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4181**	**-.00049**	**.03575**	**-.00109**	**.00076**
Stddev	.0005	.00079	.00009	.00073	.00138
%RSD	.1192	160.39	.25651	66.454	181.81
#1	.4178	-.00105	.03582	-.00058	-.00022
#2	.4185	.00007	.03569	-.00161	.00174
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05961**	**.00270**	**.00085**	**-.0212**	**.00074**
Stddev	.00469	.00002	.00010	.0104	.00013
%RSD	7.8707	.88429	11.277	49.11	17.194
#1	.05630	.00268	.00078	-.0286	.00065
#2	.06293	.00271	.00092	-.0138	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212960-C-97-A Acquired: 10/8/2023 14:51:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00020**	**.00311**	**.0158**
Stddev	.00157	.00016	.00002	.0019
%RSD	211.36	79.918	.66645	12.29
#1	-.00186	.00009	.00309	.0172
#2	.00037	.00031	.00312	.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13490.**	**12722.**	**75001.**	**5983.9**
Stddev	17.	15.	100.	54.5
%RSD	.12513	.12160	.13397	.91103
#1	13502.	12733.	75072.	5945.3
#2	13478.	12711.	74930.	6022.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.07%	100.64%	99.333%	99.683%
Range				

Sample Name: rinse Acquired: 10/8/2023 14:54:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00976**	**.00009**	**-.00069**	**-.00002**
Stddev	.00082	.01356	.00058	.00049	.00000
%RSD	548.88	138.94	621.03	70.837	6.0639
#1	.00043	.01935	.00050	-.00104	-.00002
#2	-.00073	.00017	-.00032	-.00035	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00361**	**-.00006**	**.0033**	**.00002**
Stddev	.00011	.00286	.00021	.0077	.00014
%RSD	83.183	79.447	369.41	231.4	615.68
#1	.00022	-.00158	-.00021	-.0021	.00012
#2	.00006	-.00563	.00009	.0088	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00518**	**.00137**	**.08998**	**-.00475**
Stddev	.00011	.00021	.00046	.01749	.00026
%RSD	46.179	4.0909	33.711	19.442	5.5455
#1	-.00016	-.00503	.00169	.07761	-.00456
#2	-.00032	-.00533	.00104	.10235	-.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 14:54:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00169**	**-.00003**	**.00005**	**-.00308**	**-.00003**
Stddev	.00190	.00003	.00002	.01115	.00012
%RSD	112.28	87.270	35.305	362.42	427.19
#1	-.00303	-.00005	.00006	.00481	-.00011
#2	-.00035	-.00001	.00004	-.01096	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4183**	**-.00134**	**.01211**	**.00011**	**-.00058**
Stddev	.0003	.00092	.00312	.00209	.00086
%RSD	.0683	68.528	25.797	1862.7	148.33
#1	.4185	-.00199	.01431	-.00136	-.00118
#2	.4181	-.00069	.00990	.00159	.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02109**	**.00006**	**-.00002**	**-.0281**	**.00037**
Stddev	.00280	.00009	.00020	.0115	.00018
%RSD	13.276	135.49	1246.8	40.93	48.151
#1	-.02307	.00012	-.00016	-.0200	.00024
#2	-.01911	.00000	.00013	-.0362	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 14:54:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00169**	**-.00012**	**-.00016**	**.0113**
Stddev	.00084	.00049	.00009	.0013
%RSD	49.623	411.14	55.607	11.51
#1	-.00110	.00023	-.00022	.0122
#2	-.00229	-.00046	-.00010	.0104
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13701.**	**12840.**	**75497.**	**5982.6**
Stddev	4.	17.	109.	27.3
%RSD	.03177	.13343	.14466	.45553
#1	13698.	12828.	75420.	5963.3
#2	13704.	12852.	75575.	6001.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.64%	101.57%	99.990%	99.663%
Range				

Sample Name: MB 480-685462/1-A Acquired: 10/8/2023 14:58:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.07731**	**-.00034**	**-.00007**	**.00011**
Stddev	.00022	.01914	.00036	.00024	.00002
%RSD	52.888	24.762	105.64	359.33	14.268
#1	.00056	.06377	-.00009	.00010	.00010
#2	.00026	.09084	-.00059	-.00024	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.03712**	**.00009**	**-.0205**	**-.00017**
Stddev	.00000	.00262	.00004	.0100	.00009
%RSD	2.2666	7.0532	45.856	48.79	55.052
#1	.00019	.03897	.00012	-.0134	-.00010
#2	.00019	.03527	.00006	-.0276	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00338**	**.00799**	**.10584**	**-.00218**
Stddev	.00001	.00078	.00029	.06042	.00051
%RSD	2.8715	23.064	3.6569	57.081	23.315
#1	.00022	-.00283	.00820	.14856	-.00182
#2	.00023	-.00393	.00778	.06312	-.00254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685462/1-A Acquired: 10/8/2023 14:58:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00304**	**.00093**	**-.00003**	**.25315**	**.00028**
Stddev	.00061	.00001	.00023	.00213	.00026
%RSD	20.201	1.3174	887.71	.84288	92.088
#1	.00347	.00092	-.00019	.25164	.00010
#2	.00260	.00093	.00014	.25465	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4189**	**-.00226**	**-.01044**	**.00094**	**-.00031**
Stddev	.0020	.00088	.00125	.00096	.00150
%RSD	.4821	39.211	11.965	102.07	482.46
#1	.4175	-.00163	-.00956	.00026	.00075
#2	.4203	-.00288	-.01132	.00162	-.00137
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02744**	**.00003**	**.00013**	**-.0419**	**-.00013**
Stddev	.02806	.00007	.00003	.0091	.00025
%RSD	102.23	260.54	22.265	21.70	192.32
#1	-.00761	.00008	.00011	-.0483	.00005
#2	-.04728	-.00002	.00015	-.0355	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685462/1-A Acquired: 10/8/2023 14:58:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00197**	**-.00009**	**.00443**	**.0123**
Stddev	.00009	.00018	.00011	.0027
%RSD	4.3856	196.45	2.4088	22.38
#1	-.00203	-.00022	.00451	.0103
#2	-.00191	.00004	.00436	.0142
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13471.**	**12709.**	**74781.**	**5889.3**
Stddev	3.	10.	199.	27.3
%RSD	.02087	.07793	.26634	.46335
#1	13473.	12702.	74640.	5908.6
#2	13469.	12716.	74922.	5870.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.935%	100.54%	99.041%	98.108%
Range				

Sample Name: LCS 480-685462/2-A Acquired: 10/8/2023 15:02:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04943**	**10.310**	**.20593**	**.20868**	**.21378**
Stddev	.00038	.053	.00009	.00071	.00010
%RSD	.76856	.51878	.04286	.34032	.04688
#1	.04970	10.348	.20587	.20818	.21371
#2	.04916	10.273	.20600	.20918	.21385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20784**	**10.133**	**.20790**	**-.0109**	**.20527**
Stddev	.00004	.048	.00024	.0568	.00009
%RSD	.02127	.47141	.11538	521.9	.04460
#1	.20788	10.167	.20773	.0293	.20521
#2	.20781	10.100	.20807	-.0510	.20534
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21521**	**.20309**	**10.296**	**9.9241**	**.18591**
Stddev	.00061	.00067	.020	.0027	.00013
%RSD	.28224	.33127	.19829	.02709	.07097
#1	.21478	.20357	10.282	9.9222	.18600
#2	.21564	.20261	10.310	9.9260	.18582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685462/2-A Acquired: 10/8/2023 15:02:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.321**	**.21162**	**.21479**	**9.9536**	**.19802**
Stddev	.037	.00066	.00024	.0386	.00042
%RSD	.35733	.31088	.11301	.38752	.21453
#1	10.295	.21208	.21496	9.9809	.19772
#2	10.347	.21115	.21462	9.9263	.19832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4148**	**.20580**	**10.652**	F **.23062**	**.20504**
Stddev	.0013	.00032	.021	.00113	.00084
%RSD	.3105	.15319	.19825	.49146	.41001
#1	.4157	.20602	10.637	.22982	.20564
#2	.4139	.20557	10.667	.23142	.20445
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.024**	**.19809**	**.21001**	**-.0124**	**.21182**
Stddev	.137	.00030	.00083	.0063	.00100
%RSD	1.3688	.15113	.39434	50.32	.47141
#1	10.121	.19830	.21059	-.0080	.21253
#2	9.9270	.19788	.20942	-.0169	.21112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685462/2-A Acquired: 10/8/2023 15:02:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21119**	**.21077**	**.21087**	**.0154**
Stddev	.00175	.00002	.00040	.0015
%RSD	.83097	.00892	.18791	9.907
#1	.20995	.21078	.21115	.0164
#2	.21243	.21076	.21059	.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12979.**	**12676.**	**74302.**	**5923.5**
Stddev	26.	23.	156.	18.2
%RSD	.20196	.18055	.20957	.30712
#1	12961.	12660.	74412.	5910.6
#2	12998.	12692.	74192.	5936.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.284%	100.28%	98.407%	98.678%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 15:05:52 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0160**	**48.662**	**.99212**	**1.0118**	**.98842**
Stddev	.0012	.105	.00099	.0007	.00133
%RSD	.12250	.21661	.10024	.06899	.13482
#1	1.0151	48.587	.99141	1.0123	.98748
#2	1.0169	48.736	.99282	1.0113	.98936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96494**	**48.077**	**.99091**	**.9780**	**.97884**
Stddev	.00016	.111	.00128	.0246	.00214
%RSD	.01681	.23144	.12925	2.516	.21826
#1	.96483	48.155	.99181	.9606	.98035
#2	.96506	47.998	.99000	.9955	.97733
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0261**	**.98428**	**48.812**	**47.403**	**.91838**
Stddev	.0007	.00235	.130	.119	.00114
%RSD	.06537	.23835	.26581	.25105	.12436
#1	1.0266	.98593	48.903	47.319	.91919
#2	1.0256	.98262	48.720	47.487	.91757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 15:05:52 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.199**	**.97787**	**1.0143**	**47.427**	**.97616**
Stddev	.039	.00215	.0008	.060	.00166
%RSD	.07810	.22008	.07594	.12728	.17015
#1	50.171	.97939	1.0149	47.470	.97733
#2	50.226	.97635	1.0138	47.385	.97498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.15**	**.98487**	**25.286**	**.99022**	**.98249**
Stddev	.05	.00438	.019	.00109	.00192
%RSD	.1869	.44505	.07669	.10976	.19585
#1	25.19	.98797	25.299	.99099	.98113
#2	25.12	.98177	25.272	.98945	.98385
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6388**	**.98004**	**.99156**	**.9949**	**.99855**
Stddev	.0523	.00501	.00336	.0049	.00017
%RSD	.54241	.51108	.33858	.4917	.01726
#1	9.6758	.98358	.98919	.9915	.99867
#2	9.6018	.97650	.99393	.9984	.99843
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 15:05:52 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99090**	**1.0122**	**1.0206**	**.9869**
Stddev	.00340	.0010	.0026	.0006
%RSD	.34265	.09583	.25308	.0620
#1	.99330	1.0115	1.0188	.9873
#2	.98850	1.0129	1.0225	.9864
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11933.**	**12408.**	**72215.**	**5888.4**
Stddev	28.	18.	27.	5.4
%RSD	.23774	.14439	.03731	.09171
#1	11913.	12395.	72196.	5884.6
#2	11953.	12421.	72234.	5892.2

Sample Name: CCB-7506043 Acquired: 10/8/2023 15:09:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**.00173**	**.00122**	**.00022**	**.00001**
Stddev	.00150	.00012	.00017	.00048	.00001
%RSD	137.44	7.0292	14.042	220.43	128.13
#1	.00216	.00164	.00134	-.00012	.00000
#2	.00003	.00182	.00110	.00056	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00403**	**.00009**	**.0204**	**-.00006**
Stddev	.00009	.00025	.00001	.0487	.00005
%RSD	57.492	6.1268	9.6891	238.5	86.759
#1	.00022	-.00421	.00009	-.0140	-.00002
#2	.00009	-.00386	.00010	.0548	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00505**	**-.00046**	**.09298**	**-.00337**
Stddev	.00028	.00008	.00271	.02913	.00038
%RSD	1741.5	1.5448	586.25	31.326	11.260
#1	-.00022	-.00511	-.00238	.07238	-.00364
#2	.00018	-.00500	.00146	.11357	-.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 15:09:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00005**	**.00010**	**-.00963**	**-.00036**
Stddev	.00154	.00004	.00004	.01092	.00013
%RSD	417.00	82.445	43.755	113.35	36.026
#1	-.00146	.00002	.00013	-.00191	-.00027
#2	.00072	.00009	.00007	-.01735	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4153**	**-.00082**	**.00856**	**.00099**	**-.00332**
Stddev	.0001	.00189	.00134	.00084	.00016
%RSD	.0220	230.53	15.675	85.341	4.7567
#1	.4154	.00052	.00950	.00158	-.00343
#2	.4152	-.00215	.00761	.00039	-.00321
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00375**	**-.00003**	**.00006**	**-.0235**	**.00059**
Stddev	.00553	.00003	.00008	.0130	.00027
%RSD	147.45	97.092	127.68	55.44	45.159
#1	.00016	-.00004	.00001	-.0326	.00078
#2	-.00766	-.00001	.00011	-.0143	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 15:09:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00069**	**-.00007**	**.00009**	**.0112**
Stddev	.00067	.00046	.00004	.0027
%RSD	98.050	650.12	46.072	24.40
#1	-.00021	-.00039	.00012	.0131
#2	-.00116	.00025	.00006	.0092
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13543.**	**12702.**	**75283.**	**5984.0**
Stddev	39.	43.	23.	42.7
%RSD	.28890	.33800	.03079	.71297
#1	13570.	12733.	75266.	5953.9
#2	13515.	12672.	75299.	6014.2

Sample Name: CCVL-7610998 Acquired: 10/8/2023 15:13:09 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00648**	**.22220**	**.01322**	**.01988**	**.00212**
Stddev	.00063	.00231	.00021	.00007	.00001
%RSD	9.7740	1.0400	1.5707	.37113	.46376
#1	.00604	.22384	.01336	.01983	.00213
#2	.00693	.22057	.01307	.01994	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.49814**	**.00218**	**.0177**	**.00373**
Stddev	.00014	.00239	.00011	.0284	.00017
%RSD	7.2227	.48040	4.9501	160.4	4.4848
#1	.00189	.49983	.00225	.0378	.00362
#2	.00210	.49645	.00210	-.0024	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00408**	W **.00606**	**.05048**	**.51336**	**.02743**
Stddev	.00002	.00032	.00368	.03477	.00132
%RSD	.55114	5.2166	7.2985	6.7728	4.8104
#1	.00410	.00628	.04788	.53794	.02650
#2	.00406	.00583	.05309	.48877	.02836
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-30.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 15:13:09 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20818**	**.00312**	**.01065**	**.98333**	**.00962**
Stddev	.00104	.00002	.00006	.01218	.00019
%RSD	.49944	.62037	.59248	1.2382	1.9950
#1	.20745	.00311	.01069	.97472	.00949
#2	.20892	.00313	.01060	.99194	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4185**	**.00911**	**.21652**	**.02080**	**.02301**
Stddev	.0033	.00086	.00024	.00088	.00193
%RSD	.7985	9.4470	.11124	4.2079	8.3700
#1	.4209	.00850	.21669	.02018	.02165
#2	.4162	.00972	.21635	.02142	.02437
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45155**	**.00913**	**.00502**	F **-.0353**	**.00481**
Stddev	.02277	.00025	.00002	.0078	.00025
%RSD	5.0434	2.7245	.35423	22.20	5.2003
#1	.43545	.00931	.00501	-.0408	.00498
#2	.46766	.00895	.00504	-.0297	.00463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 15:13:09 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01848**	**.00531**	**.01023**	F **.0135**
Stddev	.00124	.00023	.00016	.0017
%RSD	6.6845	4.3603	1.5347	12.90
#1	.01760	.00515	.01034	.0148
#2	.01935	.00548	.01012	.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13503.**	**12773.**	**75521.**	**5932.6**
Stddev	20.	20.	348.	2.8
%RSD	.14685	.15790	.46088	.04703
#1	13489.	12759.	75767.	5930.6
#2	13517.	12787.	75275.	5934.5

Sample Name: 620-14149-F-6-D Acquired: 10/8/2023 15:16:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.12529**	**.00283**	**.04966**	**.06445**
Stddev	.00072	.01590	.00003	.00011	.00008
%RSD	160.06	12.693	1.1380	.21532	.12410
#1	.00095	.11405	.00285	.04973	.06439
#2	-.00006	.13654	.00280	.04958	.06451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**18.861**	**.00018**	**.0354**	**.00122**
Stddev	.00003	.046	.00015	.0233	.00008
%RSD	229.43	.24316	80.344	65.65	6.9402
#1	-.00003	18.893	.00028	.0190	.00128
#2	.00001	18.828	.00008	.0519	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00268**	**-.00242**	**15.623**	**4.2851**	**-.00279**
Stddev	.00014	.00159	.051	.0089	.00249
%RSD	5.0959	65.742	.32760	.20779	89.455
#1	.00278	-.00130	15.659	4.2914	-.00455
#2	.00258	-.00355	15.587	4.2788	-.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-D Acquired: 10/8/2023 15:16:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9224**	**.97535**	**-.00013**	**322.31**	**.00155**
Stddev	.0014	.00096	.00034	2.39	.00003
%RSD	.04934	.09829	253.55	.74165	1.8021
#1	2.9235	.97468	-.00037	324.00	.00153
#2	2.9214	.97603	.00011	320.62	.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4568**	**.00098**	**74.354**	**.00365**	**.00013**
Stddev	.0021	.00135	.025	.00096	.00000
%RSD	.4642	137.97	.03335	26.373	2.2717
#1	.4553	.00002	74.371	.00297	.00013
#2	.4583	.00193	74.336	.00433	.00014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6226**	**-.00018**	**.08652**	**-.0118**	**.00152**
Stddev	.0208	.00032	.00036	.0110	.00009
%RSD	.57539	180.92	.41163	93.22	5.8804
#1	3.6079	-.00040	.08677	-.0196	.00146
#2	3.6374	.00005	.08627	-.0040	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-D Acquired: 10/8/2023 15:16:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00159**	**.00188**	**.01589**	**.0139**
Stddev	.00182	.00022	.00006	.0009
%RSD	115.09	11.900	.38473	6.247
#1	-.00030	.00173	.01584	.0132
#2	-.00288	.00204	.01593	.0145
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11818.**	**12232.**	**71209.**	**5947.7**
Stddev	2.	5.	34.	1.1
%RSD	.01643	.03970	.04788	.01882
#1	11816.	12229.	71185.	5947.0
#2	11819.	12236.	71233.	5948.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.666%	96.768%	94.311%	99.082%
Range				

Sample Name: 620-14149-F-6-Dsd@5 Acquired: 10/8/2023 15:20:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.32767**	**.00060**	**.02259**	**.01762**
Stddev	.00008	.03440	.00035	.00030	.00000
%RSD	40.382	10.499	58.082	1.3468	.01197
#1	.00025	.30334	.00085	.02281	.01762
#2	.00014	.35199	.00035	.02238	.01762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**4.5379**	**.00007**	**-.0418**	**.00021**
Stddev	.00008	.0260	.00025	.0112	.00002
%RSD	148.26	.57228	355.65	26.69	9.8551
#1	-.00000	4.5563	-.00011	-.0339	.00023
#2	.00012	4.5195	.00025	-.0497	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**-.00380**	**3.2107**	**.90328**	**-.00061**
Stddev	.00005	.00006	.0107	.01594	.00188
%RSD	5.3713	1.5404	.33315	1.7645	306.02
#1	.00095	-.00376	3.2182	.91455	-.00194
#2	.00088	-.00384	3.2031	.89201	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-Dsd@5 Acquired: 10/8/2023 15:20:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.62475**	**.19861**	**-.00003**	**66.434**	**.00011**
Stddev	.00344	.00061	.00023	.268	.00052
%RSD	.55063	.30510	753.03	.40347	489.84
#1	.62232	.19818	-.00020	66.244	.00047
#2	.62719	.19904	.00013	66.624	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4241**	**-.00049**	**14.729**	**.00019**	**-.00054**
Stddev	.0005	.00096	.011	.00031	.00091
%RSD	.1241	197.65	.07288	156.63	170.77
#1	.4238	.00019	14.737	-.00002	-.00118
#2	.4245	-.00117	14.721	.00041	.00011
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.71548**	**.00006**	**.02306**	**-.0212**	**.00040**
Stddev	.00876	.00065	.00008	.0025	.00045
%RSD	1.2242	1055.8	.35946	11.81	111.40
#1	.70929	-.00040	.02300	-.0229	.00072
#2	.72167	.00052	.02312	-.0194	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-Dsd@5 Acquired: 10/8/2023 15:20:31 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00082**	**.00388**	**.0138**
Stddev	.00068	.00043	.00014	.0006
%RSD	2282.6	52.183	3.5436	4.038
#1	.00051	.00112	.00378	.0142
#2	-.00045	.00052	.00398	.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12794.**	**12575.**	**73714.**	**5882.0**
Stddev	7.	6.	230.	29.2
%RSD	.05703	.05100	.31232	.49594
#1	12799.	12579.	73877.	5861.3
#2	12789.	12570.	73551.	5902.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.912%	99.478%	97.628%	97.986%
Range				

Sample Name: 620-14149-F-6-DPDS Acquired: 10/8/2023 15:24:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04835**	**9.9511**	**.20856**	**.24661**	**.26865**
Stddev	.00151	.0420	.00020	.00092	.00724
%RSD	3.1196	.42239	.09789	.37304	2.6961
#1	.04728	9.9213	.20842	.24726	.26353
#2	.04942	9.9808	.20871	.24596	.27377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20961**	**28.101**	**.20524**	**.0082**	**.21121**
Stddev	.00025	.046	.00013	.0163	.00018
%RSD	.12115	.16243	.06363	198.3	.08588
#1	.20979	28.133	.20533	.0198	.21134
#2	.20943	28.069	.20514	-.0033	.21109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21746**	**.20275**	**25.001**	**14.311**	**.18366**
Stddev	.00558	.00410	.096	.073	.00171
%RSD	2.5642	2.0218	.38466	.51304	.92860
#1	.21351	.19985	25.069	14.363	.18486
#2	.22140	.20565	24.933	14.259	.18245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-DPDS Acquired: 10/8/2023 15:24:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.833**	**1.1633**	**.20813**	**321.27**	**.20498**
Stddev	.333	.0309	.00054	1.11	.00101
%RSD	2.5957	2.6544	.25718	.34565	.49502
#1	12.597	1.1415	.20851	322.05	.20570
#2	13.068	1.1851	.20776	320.48	.20426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4521**	**.21005**	**80.480**	**.22722**	**.20340**
Stddev	.0039	.00100	.055	.00057	.00022
%RSD	.8572	.47523	.06773	.25128	.10969
#1	.4548	.20934	80.519	.22681	.20356
#2	.4494	.21075	80.442	.22762	.20324
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.354**	**.20348**	**.28539**	**.0177**	**.21726**
Stddev	.007	.00061	.00144	.0162	.00620
%RSD	.05546	.30166	.50555	91.36	2.8525
#1	13.359	.20304	.28641	.0291	.21288
#2	13.349	.20391	.28437	.0063	.22164
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-DPDS Acquired: 10/8/2023 15:24:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20268**	**.21580**	**.23071**	**.0119**
Stddev	.00149	.00651	.00614	.0006
%RSD	.73453	3.0164	2.6599	5.224
#1	.20163	.21120	.22637	.0114
#2	.20373	.22040	.23505	.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11820.**	**12446.**	**70757.**	**5888.0**
Stddev	7.	2.	1053.	10.3
%RSD	.06262	.01432	1.4885	.17415
#1	11825.	12447.	71501.	5895.3
#2	11815.	12445.	70012.	5880.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.684%	98.458%	93.711%	98.087%
Range				

Sample Name: 620-14149-F-6-E MS Acquired: 10/8/2023 15:27:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04900**	**10.232**	**.21500**	**.25801**	**.27119**
Stddev	.00027	.032	.00166	.00029	.00152
%RSD	.54181	.31297	.77364	.11198	.55936
#1	.04919	10.209	.21382	.25780	.27227
#2	.04882	10.254	.21618	.25821	.27012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21019**	**28.775**	**.20913**	**.0165**	**.21628**
Stddev	.00108	.069	.00035	.0334	.00014
%RSD	.51375	.24075	.16713	202.5	.06671
#1	.21096	28.824	.20938	-.0071	.21638
#2	.20943	28.726	.20888	.0401	.21618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21077**	**.20137**	**25.366**	**14.750**	**.19086**
Stddev	.00057	.00193	.133	.083	.00121
%RSD	.27128	.95654	.52589	.56320	.63556
#1	.21118	.20273	25.461	14.809	.19000
#2	.21037	.20000	25.272	14.691	.19172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-E MS Acquired: 10/8/2023 15:27:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.608**	**1.1653**	**.21310**	**331.90**	**.20982**
Stddev	.056	.0083	.00045	.90	.00010
%RSD	.44797	.71495	.20972	.27164	.04996
#1	12.648	1.1712	.21342	332.54	.20990
#2	12.568	1.1594	.21279	331.26	.20975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4571**	**.21481**	**83.525**	**.23266**	**.20709**
Stddev	.0004	.00021	.151	.00170	.00331
%RSD	.0893	.09883	.18131	.72956	1.5972
#1	.4568	.21496	83.632	.23386	.20475
#2	.4574	.21466	83.418	.23146	.20943
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.762**	**.21018**	**.29393**	**-.0029**	**.21195**
Stddev	.022	.00010	.00231	.0116	.00196
%RSD	.16293	.04967	.78741	394.4	.92476
#1	13.778	.21026	.29556	-.0111	.21334
#2	13.746	.21011	.29229	.0053	.21056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-E MS Acquired: 10/8/2023 15:27:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20785**	**.21117**	**.22228**	**.0130**
Stddev	.00029	.00015	.00122	.0019
%RSD	.14084	.06919	.54721	14.48
#1	.20764	.21128	.22314	.0143
#2	.20805	.21107	.22142	.0116
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11569.**	**12188.**	**71368.**	**5839.9**
Stddev	13.	13.	318.	40.6
%RSD	.11093	.10521	.44529	.69453
#1	11560.	12179.	71143.	5868.6
#2	11578.	12197.	71592.	5811.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.822%	96.420%	94.521%	97.286%
Range				

Sample Name: 620-14149-F-6-F MSD Acquired: 10/8/2023 15:31:11 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05057**	**10.258**	**.21810**	**.25951**	**.27433**
Stddev	.00141	.026	.00048	.00021	.00051
%RSD	2.7899	.25109	.22075	.08233	.18573
#1	.05156	10.240	.21776	.25966	.27469
#2	.04957	10.276	.21844	.25936	.27397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21091**	**28.926**	**.21134**	**.0181**	**.21948**
Stddev	.00033	.019	.00005	.0225	.00047
%RSD	.15723	.06517	.02319	124.6	.21597
#1	.21068	28.939	.21130	.0021	.21982
#2	.21115	28.913	.21137	.0340	.21915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21561**	**.20202**	**25.813**	**14.932**	**.18848**
Stddev	.00023	.00068	.025	.029	.00100
%RSD	.10794	.33694	.09867	.19456	.52863
#1	.21578	.20250	25.795	14.911	.18778
#2	.21545	.20153	25.831	14.952	.18918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-F MSD Acquired: 10/8/2023 15:31:11 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.899**	**1.1957**	**.21512**	**337.72**	**.21214**
Stddev	.005	.0024	.00044	.51	.00066
%RSD	.03738	.20146	.20479	.14980	.31033
#1	12.903	1.1974	.21543	337.36	.21260
#2	12.896	1.1940	.21481	338.08	.21167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4544**	**.21729**	**86.363**	**.23682**	**.20846**
Stddev	.0021	.00273	.022	.00074	.00080
%RSD	.4626	1.2549	.02524	.31166	.38395
#1	.4559	.21536	86.348	.23630	.20789
#2	.4529	.21922	86.379	.23734	.20903
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.818**	**.21302**	**.29605**	**.0135**	**.21530**
Stddev	.040	.00078	.00030	.0099	.00018
%RSD	.29129	.36512	.10258	73.69	.08135
#1	13.790	.21247	.29627	.0064	.21542
#2	13.847	.21357	.29584	.0205	.21518
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-6-F MSD Acquired: 10/8/2023 15:31:11 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21057**	**.21501**	**.22733**	**.0128**
Stddev	.00112	.00074	.00092	.0001
%RSD	.53178	.34632	.40565	1.128
#1	.20978	.21553	.22799	.0127
#2	.21136	.21448	.22668	.0129
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11593.**	**12229.**	**71002.**	**5862.9**
Stddev	11.	10.	236.	15.2
%RSD	.09120	.08340	.33294	.25865
#1	11586.	12222.	71169.	5873.7
#2	11601.	12236.	70834.	5852.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.002%	96.740%	94.036%	97.669%
Range				

Sample Name: 620-14149-F-8-B Acquired: 10/8/2023 15:34:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.55017**	**.00326**	**.07395**	**.07964**
Stddev	.00052	.00276	.00233	.00031	.00033
%RSD	282.99	.50092	71.487	.41403	.41335
#1	-.00018	.55212	.00491	.07373	.07987
#2	.00055	.54823	.00161	.07416	.07941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**91.919**	**.00036**	**.0115**	**.00074**
Stddev	.00008	.468	.00001	.0357	.00011
%RSD	101.18	.50926	3.1282	310.0	14.351
#1	.00002	92.250	.00037	.0368	.00082
#2	.00014	91.588	.00036	-.0137	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00894**	**.01388**	**1.4848**	**13.434**	**-.00512**
Stddev	.00019	.00058	.0072	.072	.00290
%RSD	2.1119	4.2124	.48164	.53614	56.644
#1	.00881	.01347	1.4898	13.485	-.00307
#2	.00908	.01429	1.4797	13.383	-.00718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-8-B Acquired: 10/8/2023 15:34:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2583**	**.14894**	**.01131**	**272.73**	**.00504**
Stddev	.0231	.00027	.00011	1.57	.00007
%RSD	.36908	.18160	.99610	.57390	1.3696
#1	6.2747	.14913	.01139	273.83	.00499
#2	6.2420	.14875	.01123	271.62	.00509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4541**	**.00101**	F **158.71**	**-.00069**	**.00262**
Stddev	.0005	.00091	.15	.00179	.00167
%RSD	.1195	89.968	.09696	261.56	63.684
#1	.4545	.00037	158.60	-.00195	.00144
#2	.4538	.00165	158.82	.00058	.00379
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0287**	**.00183**	**.38170**	**-.0328**	**.00658**
Stddev	.0157	.00012	.00097	.0097	.00005
%RSD	.31204	6.4383	.25432	29.43	.71784
#1	5.0176	.00175	.38238	-.0260	.00662
#2	5.0398	.00191	.38101	-.0397	.00655
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-8-B Acquired: 10/8/2023 15:34:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.00115**	**.02948**	**.0118**
Stddev	.00187	.00017	.00014	.0002
%RSD	246.93	15.181	.47614	2.011
#1	.00057	.00128	.02938	.0116
#2	-.00208	.00103	.02958	.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11579.**	**12061.**	**70449.**	**5851.1**
Stddev	4.	8.	113.	63.6
%RSD	.03515	.06252	.16085	1.0874
#1	11581.	12067.	70529.	5806.1
#2	11576.	12056.	70369.	5896.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.893%	95.415%	93.304%	97.472%
Range				

Sample Name: 620-14149-F-7-B Acquired: 10/8/2023 15:38:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.11121**	**.00396**	**.05226**	**.06835**
Stddev	.00015	.04373	.00035	.00051	.00016
%RSD	23.671	39.325	8.8820	.97951	.23458
#1	.00073	.14214	.00371	.05263	.06847
#2	.00052	.08029	.00421	.05190	.06824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**19.860**	**.00005**	**-.0075**	**.00132**
Stddev	.00014	.043	.00001	.0720	.00010
%RSD	119.78	.21654	17.407	966.6	7.4941
#1	.00022	19.829	.00006	-.0584	.00139
#2	.00002	19.890	.00004	.0435	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00111**	**-.00219**	**16.417**	**4.5508**	**-.00095**
Stddev	.00020	.00032	.004	.0420	.00161
%RSD	17.635	14.393	.02709	.92342	170.18
#1	.00124	-.00197	16.421	4.5211	.00019
#2	.00097	-.00242	16.414	4.5805	-.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-7-B Acquired: 10/8/2023 15:38:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0627**	**1.0176**	**.00025**	**345.51**	**.00154**
Stddev	.0010	.0032	.00026	.13	.00021
%RSD	.03209	.31159	102.61	.03822	13.382
#1	3.0634	1.0198	.00043	345.61	.00169
#2	3.0620	1.0153	.00007	345.42	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4587**	**.00304**	**76.728**	**.00412**	**.00011**
Stddev	.0004	.00056	.060	.00274	.00500
%RSD	.0961	18.405	.07848	66.626	4435.9
#1	.4590	.00344	76.685	.00218	.00365
#2	.4584	.00265	76.770	.00606	-.00343
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8288**	**-.00089**	**.09220**	**.0002**	**.00082**
Stddev	.0336	.00040	.00004	.0032	.00055
%RSD	.87700	44.637	.03855	1300.	66.761
#1	3.8050	-.00117	.09217	.0025	.00043
#2	3.8525	-.00061	.09222	-.0020	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14149-F-7-B Acquired: 10/8/2023 15:38:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00110**	**.00169**	**.01480**	**.0129**
Stddev	.00133	.00050	.00011	.0008
%RSD	121.01	29.387	.71114	5.958
#1	-.00204	.00134	.01487	.0124
#2	-.00016	.00204	.01472	.0135
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11722.**	**12184.**	**70869.**	**5849.9**
Stddev	12.	5.	144.	5.2
%RSD	.10547	.04194	.20344	.08858
#1	11730.	12187.	70767.	5846.2
#2	11713.	12180.	70971.	5853.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.954%	96.384%	93.860%	97.451%
Range				

Sample Name: 480-213104-D-1-B Acquired: 10/8/2023 15:41:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.05614**	**-.00074**	**.00302**	**.00766**
Stddev	.00051	.00577	.00160	.00009	.00007
%RSD	310.47	10.279	216.34	3.0968	.90400
#1	.00019	.05206	-.00187	.00308	.00771
#2	-.00052	.06022	.00039	.00295	.00761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**36.240**	**.00019**	**-.0072**	**-.00017**
Stddev	.00013	.183	.00015	.0127	.00012
%RSD	2920.9	.50368	80.078	175.1	71.132
#1	.00010	36.369	.00008	-.0162	-.00025
#2	-.00009	36.111	.00029	.0017	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00059**	**.02130**	**.43989**	**-.00350**
Stddev	.00001	.00055	.00143	.05940	.00166
%RSD	9.7267	93.336	6.7125	13.504	47.405
#1	.00012	-.00098	.02231	.48190	-.00233
#2	.00014	-.00020	.02029	.39789	-.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-1-B Acquired: 10/8/2023 15:41:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.464**	**.06205**	**.00075**	**2.1486**	**.00011**
Stddev	.056	.00032	.00011	.0154	.00029
%RSD	.53791	.52352	14.921	.71792	272.79
#1	10.503	.06228	.00067	2.1595	-.00010
#2	10.424	.06182	.00083	2.1377	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4264**	**.00010**	**5.3060**	**-.00080**	**.00040**
Stddev	.0003	.00186	.0080	.00119	.00238
%RSD	.0718	1836.8	.15159	148.39	594.17
#1	.4262	-.00121	5.3117	.00004	.00208
#2	.4266	.00142	5.3004	-.00164	-.00128
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0109**	**-.00026**	**.14985**	**-.0199**	**.00013**
Stddev	.0330	.00012	.00033	.0136	.00004
%RSD	.65793	45.845	.21983	68.12	29.555
#1	5.0342	-.00034	.15008	-.0103	.00016
#2	4.9876	-.00017	.14961	-.0295	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-1-B Acquired: 10/8/2023 15:41:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00125**	**-.00037**	**.00076**	**.0138**
Stddev	.00078	.00003	.00019	.0016
%RSD	62.619	8.1017	24.505	11.91
#1	-.00070	-.00035	.00089	.0126
#2	-.00181	-.00039	.00062	.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13069.**	**12648.**	**74356.**	**5874.1**
Stddev	4.	.	28.	65.0
%RSD	.02939	.00299	.03795	1.1062
#1	13072.	12648.	74336.	5828.2
#2	13066.	12648.	74376.	5920.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.949%	100.06%	98.478%	97.855%
Range				

Sample Name: 480-213104-D-2-B Acquired: 10/8/2023 15:45:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.07706**	**-.00049**	**.00312**	**.00736**
Stddev	.00028	.00574	.00107	.00069	.00001
%RSD	48.433	7.4430	215.98	22.230	.12513
#1	-.00079	.07300	-.00125	.00361	.00735
#2	-.00039	.08111	.00026	.00263	.00737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**35.323**	**.00018**	**-.0144**	**-.00010**
Stddev	.00010	.065	.00000	.0097	.00016
%RSD	146.79	.18380	.23076	67.51	160.94
#1	-.00000	35.368	.00017	-.0213	.00001
#2	.00013	35.277	.00018	-.0075	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00131**	**.10112**	**.45498**	**-.00332**
Stddev	.00006	.00102	.00011	.05845	.00018
%RSD	30.602	77.450	.10449	12.847	5.4190
#1	.00015	-.00059	.10104	.49631	-.00344
#2	.00023	-.00203	.10119	.41365	-.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-2-B Acquired: 10/8/2023 15:45:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.243**	**.05209**	**.00078**	**2.2083**	**.00073**
Stddev	.003	.00006	.00010	.0009	.00007
%RSD	.03046	.11860	12.383	.03908	9.7768
#1	10.241	.05204	.00085	2.2089	.00068
#2	10.246	.05213	.00071	2.2077	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4254**	**.00024**	**5.1512**	**.00015**	**-.00182**
Stddev	.0001	.00005	.0068	.00093	.00121
%RSD	.0144	22.597	.13227	603.97	66.402
#1	.4254	.00020	5.1464	-.00051	-.00267
#2	.4254	.00028	5.1561	.00082	-.00097
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9168**	**.00043**	**.14589**	**-.0337**	**.00070**
Stddev	.0087	.00040	.00027	.0020	.00063
%RSD	.17720	92.724	.18457	5.863	89.624
#1	4.9229	.00015	.14570	-.0351	.00026
#2	4.9106	.00071	.14608	-.0323	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-2-B Acquired: 10/8/2023 15:45:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.00037**	**.00112**	**.0135**
Stddev	.00112	.00084	.00018	.0026
%RSD	120.67	225.78	16.055	19.27
#1	-.00172	-.00022	.00125	.0116
#2	-.00014	.00097	.00099	.0153
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13184.**	**12754.**	**74890.**	**5895.7**
Stddev	12.	1.	281.	7.6
%RSD	.09057	.00473	.37470	.12925
#1	13176.	12753.	75089.	5890.3
#2	13193.	12754.	74692.	5901.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.804%	100.89%	99.186%	98.215%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 15:49:20 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0232**	**48.939**	**1.0005**	**1.0139**	**.99659**
Stddev	.0060	.031	.0026	.0007	.00223
%RSD	.58942	.06322	.25509	.06745	.22412
#1	1.0274	48.917	.99874	1.0134	.99817
#2	1.0189	48.961	1.0023	1.0143	.99502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97959**	**48.484**	**.99672**	**.9444**	**.99130**
Stddev	.00304	.044	.00037	.0412	.00039
%RSD	.31052	.09084	.03684	4.362	.03947
#1	.98174	48.515	.99698	.9153	.99102
#2	.97744	48.453	.99646	.9736	.99158
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0259**	**.99706**	**48.851**	**48.082**	**.92900**
Stddev	.0057	.00325	.074	.181	.00443
%RSD	.55587	.32550	.15099	.37717	.47643
#1	1.0299	.99936	48.903	48.210	.93213
#2	1.0218	.99477	48.799	47.954	.92587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 15:49:20 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.765**	**.99662**	**1.0148**	**48.131**	**.99151**
Stddev	.253	.00323	.0004	.116	.00079
%RSD	.49825	.32398	.04346	.24154	.07948
#1	50.944	.99890	1.0145	48.213	.99095
#2	50.586	.99433	1.0151	48.049	.99207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.19**	**1.00000**	**25.519**	**.99963**	**.99516**
Stddev	.00	.00034	.027	.00361	.00067
%RSD	.0118	.03392	.10450	.36086	.06714
#1	25.19	1.0002	25.500	1.0022	.99563
#2	25.19	.99976	25.537	.99708	.99469
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7028**	**.99230**	**.99800**	**.9998**	**1.0062**
Stddev	.0058	.00138	.00211	.0102	.0039
%RSD	.05973	.13859	.21108	1.017	.38807
#1	9.6987	.99133	.99949	1.007	1.0090
#2	9.7069	.99328	.99651	.9926	1.0035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 15:49:20 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0060**	**1.0172**	**1.0269**	**.9939**
Stddev	.0036	.0058	.0056	.0028
%RSD	.35487	.56832	.54260	.2795
#1	1.0035	1.0212	1.0308	.9920
#2	1.0085	1.0131	1.0229	.9959
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11879.**	**12386.**	**71864.**	**5773.6**
Stddev	10.	4.	91.	22.5
%RSD	.08506	.03300	.12648	.38916
#1	11886.	12389.	71799.	5757.7
#2	11872.	12383.	71928.	5789.5

Sample Name: CCB-7506043 Acquired: 10/8/2023 15:52:54 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.02419**	**-.00044**	**-.00010**	**-.00001**
Stddev	.00005	.03161	.00043	.00025	.00002
%RSD	15.155	130.69	97.927	247.81	257.47
#1	.00035	.04654	-.00074	-.00028	-.00002
#2	.00028	.00183	-.00013	.00008	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00216**	**-.00005**	**.0482**	**-.00022**
Stddev	.00002	.00899	.00006	.0642	.00011
%RSD	12.671	416.61	105.87	133.1	48.891
#1	.00014	.00420	-.00009	.0028	-.00014
#2	.00012	-.00851	-.00001	.0936	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00284**	**-.00165**	**.09308**	**-.00077**
Stddev	.00003	.00098	.00061	.02641	.00144
%RSD	22.841	34.296	37.202	28.371	186.63
#1	-.00017	-.00353	-.00122	.11176	-.00179
#2	-.00012	-.00216	-.00209	.07441	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 15:52:54 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00002**	**.00007**	**-.00111**	**-.00019**
Stddev	.00336	.00003	.00011	.01320	.00047
%RSD	696.90	126.44	158.26	1193.0	251.61
#1	.00190	.00000	-.00001	.00823	-.00052
#2	-.00286	.00004	.00014	-.01044	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4185**	**-.00047**	**.01041**	**.00056**	**.00065**
Stddev	.0029	.00049	.00123	.00220	.00011
%RSD	.6993	103.85	11.861	394.32	16.803
#1	.4165	-.00013	.01128	-.00100	.00057
#2	.4206	-.00082	.00953	.00211	.00073
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02754**	**-.00030**	**.00006**	**-.0309**	**.00038**
Stddev	.00449	.00040	.00016	.0098	.00028
%RSD	16.298	131.94	288.58	31.89	72.299
#1	-.02437	-.00059	.00017	-.0378	.00057
#2	-.03071	-.00002	-.00006	-.0239	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 15:52:54 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.00004**	**-.00023**	**.0109**
Stddev	.00109	.00029	.00007	.0004
%RSD	159.00	768.75	28.726	3.380
#1	-.00146	-.00017	-.00028	.0111
#2	.00009	.00024	-.00019	.0106
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13555.**	**12734.**	**74877.**	**5840.1**
Stddev	7.	22.	428.	64.9
%RSD	.05082	.17161	.57214	1.1111
#1	13550.	12718.	74574.	5794.2
#2	13560.	12749.	75180.	5886.0

Sample Name: CCVL-7610998 Acquired: 10/8/2023 15:56:37 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00633**	**.16272**	**.01351**	**.01963**	**.00212**
Stddev	.00080	.00877	.00124	.00030	.00001
%RSD	12.625	5.3873	9.1459	1.5364	.41030
#1	.00576	.16892	.01263	.01984	.00213
#2	.00689	.15652	.01438	.01942	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.49725**	**.00218**	**-.0079**	**.00369**
Stddev	.00006	.01072	.00005	.0212	.00015
%RSD	2.9621	2.1567	2.3042	269.3	4.1321
#1	.00201	.50484	.00214	-.0229	.00380
#2	.00210	.48967	.00221	.0071	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00408**	**.00749**	**.04957**	**.53282**	**.02588**
Stddev	.00031	.00006	.00244	.01462	.00210
%RSD	7.5606	.73551	4.9120	2.7432	8.1238
#1	.00386	.00745	.04785	.54315	.02439
#2	.00430	.00753	.05130	.52248	.02736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/8/2023 15:56:37 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20560**	**.00314**	**.01040**	**.98658**	**.00938**
Stddev	.00003	.00007	.00012	.01322	.00024
%RSD	.01233	2.1565	1.1126	1.3397	2.5132
#1	.20558	.00318	.01032	.97723	.00955
#2	.20562	.00309	.01048	.99592	.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4175**	**.00898**	**.21712**	**.02042**	**.02374**
Stddev	.0007	.00036	.00346	.00043	.00062
%RSD	.1741	4.0075	1.5942	2.1072	2.6272
#1	.4181	.00924	.21956	.02011	.02330
#2	.4170	.00873	.21467	.02072	.02418
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45226**	**.00947**	**.00510**	F **-.0106**	**.00496**
Stddev	.01482	.00024	.00012	.0005	.00034
%RSD	3.2775	2.5574	2.4512	5.111	6.8150
#1	.46274	.00964	.00501	-.0102	.00472
#2	.44177	.00930	.00519	-.0109	.00520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 15:56:37 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01824**	**.00498**	**.01008**	F **.0091**
Stddev	.00066	.00068	.00037	.0004
%RSD	3.6204	13.600	3.6805	4.489
#1	.01871	.00450	.01035	.0094
#2	.01778	.00546	.00982	.0088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13549.**	**12835.**	**75340.**	**5881.1**
Stddev	10.	30.	300.	69.1
%RSD	.07683	.23039	.39814	1.1757
#1	13541.	12814.	75128.	5832.3
#2	13556.	12856.	75553.	5930.0

Sample Name: 480-213104-D-3-B Acquired: 10/8/2023 16:00:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.07480**	**-.00050**	**.00552**	**.01377**
Stddev	.00024	.00243	.00130	.00032	.00003
%RSD	29.693	3.2469	261.03	5.7683	.22780
#1	.00098	.07308	.00042	.00575	.01379
#2	.00064	.07652	-.00142	.00530	.01375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**49.929**	**.00025**	**-.0295**	**-.00023**
Stddev	.00003	.297	.00013	.0123	.00010
%RSD	27.850	.59475	53.255	41.56	41.246
#1	.00010	50.139	.00034	-.0209	-.00030
#2	.00015	49.719	.00015	-.0382	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00256**	**.10910**	**.78388**	**-.00304**
Stddev	.00015	.00029	.00375	.01333	.00225
%RSD	40.628	11.136	3.4358	1.7000	73.893
#1	.00026	-.00276	.11176	.77446	-.00463
#2	.00047	-.00236	.10645	.79331	-.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-3-B Acquired: 10/8/2023 16:00:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.856**	**.02491**	**.00091**	**6.4844**	**-.00034**
Stddev	.011	.00005	.00018	.0121	.00046
%RSD	.05201	.18866	19.925	.18670	135.92
#1	21.864	.02494	.00078	6.4930	-.00066
#2	21.848	.02487	.00104	6.4758	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4222**	**.00040**	**7.9990**	**.00089**	**.00091**
Stddev	.0020	.00122	.0122	.00030	.00230
%RSD	.4638	308.56	.15231	34.152	251.54
#1	.4208	.00126	8.0076	.00067	-.00071
#2	.4235	-.00047	7.9904	.00110	.00254
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2356**	**-.00052**	**.20027**	**-.0153**	**.00053**
Stddev	.0286	.00032	.00106	.0042	.00045
%RSD	.54647	60.871	.52726	27.60	85.189
#1	5.2558	-.00074	.20102	-.0123	.00085
#2	5.2153	-.00030	.19953	-.0183	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-3-B Acquired: 10/8/2023 16:00:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00171**	**-.00051**	**.00722**	**.0127**
Stddev	.00153	.00050	.00004	.0008
%RSD	89.211	98.109	.59993	6.370
#1	-.00063	-.00016	.00719	.0133
#2	-.00279	-.00086	.00725	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12808.**	**12508.**	**73761.**	**5840.6**
Stddev	31.	29.	168.	13.8
%RSD	.24407	.22892	.22837	.23691
#1	12786.	12488.	73642.	5850.4
#2	12830.	12528.	73880.	5830.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.016%	98.949%	97.691%	97.297%
Range				

Sample Name: 480-213104-D-4-D Acquired: 10/8/2023 16:03:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.02419**	**.00018**	**.00643**	**.00216**
Stddev	.00007	.02153	.00115	.00001	.00004
%RSD	15.341	89.007	626.59	.11975	2.0459
#1	.00043	.03941	-.00063	.00644	.00219
#2	.00053	.00896	.00099	.00643	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**42.749**	**.00038**	**-.0374**	**.00003**
Stddev	.00009	.201	.00019	.0177	.00014
%RSD	133.61	.46942	49.423	47.44	436.52
#1	.00000	42.607	.00025	-.0499	.00013
#2	.00014	42.891	.00051	-.0248	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.00208**	**.01034**	**.67650**	**-.00331**
Stddev	.00029	.00165	.00187	.01102	.00023
%RSD	57.345	79.562	18.118	1.6282	6.8163
#1	.00072	-.00091	.00901	.66871	-.00347
#2	.00030	-.00325	.01166	.68429	-.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-4-D Acquired: 10/8/2023 16:03:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.355**	**.00040**	**.00062**	**6.7328**	**-.00001**
Stddev	.018	.00013	.00055	.0381	.00009
%RSD	.07666	33.577	88.631	.56512	817.72
#1	23.368	.00030	.00023	6.7059	.00005
#2	23.342	.00049	.00101	6.7598	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4218**	**.00027**	**5.9255**	**.00059**	**.00185**
Stddev	.0005	.00020	.0105	.00108	.00106
%RSD	.1250	75.756	.17672	183.48	57.107
#1	.4214	.00041	5.9329	-.00018	.00110
#2	.4222	.00012	5.9181	.00135	.00260
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9066**	**-.00039**	**.17799**	**-.0425**	**.00072**
Stddev	.0243	.00081	.00015	.0032	.00013
%RSD	.49429	205.93	.08341	7.632	18.484
#1	4.8895	.00018	.17809	-.0402	.00082
#2	4.9238	-.00096	.17788	-.0448	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-4-D Acquired: 10/8/2023 16:03:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00001**	**.00943**	**.0121**
Stddev	.00102	.00052	.00024	.0026
%RSD	1383.2	6247.8	2.5630	21.65
#1	-.00079	-.00036	.00926	.0139
#2	.00064	.00038	.00960	.0102
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12974.**	**12669.**	**74467.**	**5870.0**
Stddev	11.	7.	261.	29.2
%RSD	.08780	.05438	.35048	.49780
#1	12966.	12664.	74283.	5890.7
#2	12982.	12674.	74652.	5849.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.244%	100.22%	98.626%	97.788%
Range				

Sample Name: 480-213104-D-4-E MS Acquired: 10/8/2023 16:07:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04818**	**10.058**	**.20531**	**.21173**	**.21131**
Stddev	.00040	.104	.00014	.00040	.00077
%RSD	.83201	1.0365	.06839	.18944	.36558
#1	.04790	9.9847	.20521	.21144	.21076
#2	.04847	10.132	.20541	.21201	.21185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20632**	**51.965**	**.20272**	**-.0274**	**.20079**
Stddev	.00088	.167	.00018	.0286	.00018
%RSD	.42862	.32166	.09076	104.2	.08823
#1	.20570	51.847	.20285	-.0072	.20092
#2	.20695	52.083	.20259	-.0476	.20067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20773**	**.19720**	**9.9516**	**10.617**	**.18332**
Stddev	.00098	.00028	.0571	.052	.00014
%RSD	.47352	.14248	.57414	.49309	.07618
#1	.20704	.19740	9.9112	10.654	.18342
#2	.20843	.19700	9.9920	10.580	.18322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-4-E MS Acquired: 10/8/2023 16:07:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.035**	**.20464**	**.20910**	**16.402**	**.19388**
Stddev	.084	.00018	.00000	.015	.00025
%RSD	.25374	.09022	.00122	.09197	.12883
#1	32.975	.20451	.20910	16.392	.19406
#2	33.094	.20477	.20910	16.413	.19370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4168**	**.20441**	**16.533**	**.22498**	**.19693**
Stddev	.0021	.00059	.031	.00062	.00201
%RSD	.5022	.28671	.18589	.27379	1.0232
#1	.4153	.20483	16.555	.22541	.19550
#2	.4183	.20400	16.512	.22454	.19835
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.752**	**.19776**	**.38016**	**-.0191**	**.20777**
Stddev	.030	.00061	.00095	.0202	.00004
%RSD	.20009	.31060	.25051	105.9	.01989
#1	14.731	.19820	.37949	-.0333	.20774
#2	14.773	.19733	.38083	-.0048	.20779
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-4-E MS Acquired: 10/8/2023 16:07:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20662**	**.20544**	**.19886**	**.0138**
Stddev	.00121	.00078	.00101	.0014
%RSD	.58645	.37961	.50610	10.41
#1	.20747	.20489	.19815	.0149
#2	.20576	.20599	.19957	.0128
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12574.**	**12633.**	**73706.**	**5837.1**
Stddev	15.	7.	120.	.9
%RSD	.11616	.05405	.16224	.01577
#1	12564.	12628.	73791.	5837.7
#2	12585.	12638.	73622.	5836.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.280%	99.939%	97.618%	97.239%
Range				

Sample Name: 480-213104-D-4-F MSD Acquired: 10/8/2023 16:11:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04922**	**10.223**	**.20490**	**.21464**	**.21350**
Stddev	.00004	.061	.00035	.00028	.00035
%RSD	.08341	.59904	.16877	.13004	.16327
#1	.04925	10.267	.20515	.21484	.21325
#2	.04919	10.180	.20466	.21444	.21375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20843**	**52.633**	**.20453**	**.0273**	**.20387**
Stddev	.00169	.416	.00088	.0213	.00014
%RSD	.80893	.79070	.42936	78.17	.06762
#1	.20962	52.927	.20515	.0423	.20397
#2	.20724	52.339	.20390	.0122	.20378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21133**	**.19900**	**10.116**	**10.734**	**.18506**
Stddev	.00032	.00072	.104	.043	.00018
%RSD	.15177	.36041	1.0279	.40251	.09780
#1	.21110	.19849	10.190	10.765	.18494
#2	.21155	.19951	10.043	10.704	.18519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-4-F MSD Acquired: 10/8/2023 16:11:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.381**	**.20607**	**.21181**	**16.616**	**.19645**
Stddev	.021	.00051	.00043	.100	.00040
%RSD	.06348	.24850	.20215	.60448	.20470
#1	33.366	.20571	.21211	16.687	.19673
#2	33.396	.20644	.21150	16.544	.19616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4207**	**.20723**	**16.629**	**.22673**	**.19945**
Stddev	.0016	.00174	.022	.00061	.00323
%RSD	.3755	.83858	.13210	.26902	1.6204
#1	.4196	.20846	16.644	.22717	.19716
#2	.4219	.20600	16.613	.22630	.20173
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.970**	**.20005**	**.38542**	**-.0029**	**.21027**
Stddev	.109	.00042	.00344	.0315	.00135
%RSD	.72682	.20923	.89261	1084.	.64046
#1	15.047	.20035	.38786	.0194	.20932
#2	14.893	.19976	.38299	-.0252	.21122
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213104-D-4-F MSD Acquired: 10/8/2023 16:11:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.20711	.20812	.20121	.0117
Stddev	.00060	.00136	.00081	.0001
%RSD	.29196	.65213	.40090	.9088
#1	.20669	.20716	.20064	.0117
#2	.20754	.20908	.20178	.0118
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	12509.	12583.	73544.	5842.1
Stddev	35.	41.	46.	4.2
%RSD	.28253	.32525	.06304	.07190
#1	12484.	12554.	73512.	5845.1
#2	12534.	12612.	73577.	5839.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.797%	99.540%	97.403%	97.323%
Range				

Sample Name: 480-213162-D-1-A Acquired: 10/8/2023 16:14:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**7.6600**	**.00883**	**.02796**	**.20478**
Stddev	.00054	.0430	.00068	.00044	.00132
%RSD	59.950	.56074	7.6836	1.5746	.64454
#1	.00128	7.6296	.00931	.02765	.20571
#2	.00052	7.6904	.00835	.02828	.20385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**131.83**	**.00067**	**.0038**	**.00388**
Stddev	.00013	.04	.00004	.0038	.00003
%RSD	27.930	.02901	5.8357	100.3	.88075
#1	.00055	131.86	.00070	.0065	.00391
#2	.00037	131.80	.00065	.0011	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01050**	**.00838**	**16.488**	**4.1160**	**.00484**
Stddev	.00022	.00072	.017	.0553	.00181
%RSD	2.0720	8.6496	.10245	1.3441	37.320
#1	.01066	.00889	16.499	4.0769	.00356
#2	.01035	.00787	16.476	4.1552	.00612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213162-D-1-A Acquired: 10/8/2023 16:14:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.845**	**1.1986**	**.00525**	**7.1148**	**.00996**
Stddev	.310	.0114	.00005	.0135	.00007
%RSD	.69146	.95096	1.0156	.18956	.68558
#1	45.064	1.2067	.00529	7.1053	.01001
#2	44.626	1.1905	.00521	7.1244	.00991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.8562**	**.01398**	**28.550**	**.00208**	**.00035**
Stddev	.0022	.00113	.049	.00112	.00003
%RSD	.2604	8.0547	.17329	53.990	8.4122
#1	.8578	.01478	28.515	.00129	.00033
#2	.8547	.01319	28.585	.00287	.00037
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.723**	**-.00019**	**.17363**	**-.0241**	**.15673**
Stddev	.008	.00091	.00039	.0010	.00202
%RSD	.03513	489.32	.22641	4.307	1.2915
#1	21.717	.00046	.17391	-.0234	.15816
#2	21.728	-.00083	.17335	-.0249	.15529
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213162-D-1-A Acquired: 10/8/2023 16:14:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.01831**	**.04044**	**.0154**
Stddev	.00025	.00005	.00023	.0014
%RSD	40.754	.26518	.55859	8.939
#1	-.00044	.01827	.04060	.0144
#2	-.00080	.01834	.04028	.0164
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12229.**	**12484.**	**72284.**	**5910.7**
Stddev	17.	19.	469.	18.2
%RSD	.13819	.15606	.64932	.30854
#1	12217.	12470.	71952.	5923.6
#2	12241.	12497.	72616.	5897.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.715%	98.756%	95.735%	98.465%
Range				

Sample Name: 480-213165-D-1-A Acquired: 10/8/2023 16:18:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**.90563**	**.07572**	F **19.771**	**.48660**
Stddev	.00061	.00178	.00052	.018	.00023
%RSD	62.660	.19661	.68019	.08860	.04637
#1	.00054	.90437	.07536	19.783	.48644
#2	.00141	.90689	.07608	19.759	.48676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**111.29**	**.00084**	**-.0125**	**.05242**
Stddev	.00014	.33	.00009	.0005	.00021
%RSD	233.00	.29741	10.350	4.143	.40195
#1	.00004	111.52	.00090	-.0129	.05257
#2	-.00015	111.05	.00078	-.0122	.05227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40151**	**.01206**	**2.9859**	F **608.26**	**.15870**
Stddev	.00124	.00059	.0200	4.77	.00259
%RSD	.30956	4.8600	.67017	.78500	1.6299
#1	.40063	.01248	3.0000	611.64	.16053
#2	.40239	.01165	2.9717	604.88	.15688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-213165-D-1-A Acquired: 10/8/2023 16:18:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**148.96**	**1.2156**	**.01442**	F **2705.7**	**.29308**
Stddev	.25	.0014	.00018	8.5	.00032
%RSD	.16771	.11960	1.2230	.31599	.11011
#1	149.14	1.2146	.01455	2711.8	.29286
#2	148.78	1.2167	.01430	2699.7	.29331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.79**	**.00952**	**62.299**	**.02363**	**.00298**
Stddev	.01	.00040	.091	.00047	.00313
%RSD	.0594	4.2293	.14541	1.9813	104.98
#1	16.79	.00980	62.363	.02330	.00519
#2	16.78	.00923	62.235	.02396	.00077
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.007**	**.06922**	**.84838**	**-.0446**	**.69968**
Stddev	.106	.00065	.00246	.0027	.00184
%RSD	.36688	.94488	.28974	5.987	.26234
#1	29.082	.06876	.85012	-.0427	.69838
#2	28.931	.06968	.84664	-.0465	.70098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213165-D-1-A Acquired: 10/8/2023 16:18:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.13247**	**.19464**	**.1345**
Stddev	.00063	.00036	.00015	.0049
%RSD	120.42	.27017	.07607	3.633
#1	-.00098	.13222	.19453	.1380
#2	-.00008	.13272	.19474	.1311
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9341.4**	**10671.**	**61122.**	**5558.2**
Stddev	3.8	3.	201.	59.5
%RSD	.04049	.02848	.32956	1.0700
#1	9344.1	10673.	61264.	5516.2
#2	9338.7	10669.	60979.	5600.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.297%	84.414%	80.951%	92.593%
Range				

Sample Name: 480-213151-D-1-A Acquired: 10/8/2023 16:22:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**3.1582**	**.00017**	**.02541**	**.01647**
Stddev	.00093	.0293	.00059	.00068	.00001
%RSD	353.60	.92712	346.15	2.6570	.07667
#1	.00092	3.1789	.00059	.02589	.01647
#2	-.00040	3.1375	-.00025	.02493	.01648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**60.082**	**.00105**	**-.0509**	**.00179**
Stddev	.00017	.096	.00001	.0421	.00006
%RSD	58.990	.15930	1.0816	82.66	3.3735
#1	.00017	60.149	.00104	-.0212	.00175
#2	.00041	60.014	.00106	-.0807	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**.00237**	**3.8632**	**2.5533**	**-.00062**
Stddev	.00060	.00151	.0152	.0070	.00220
%RSD	19.796	64.031	.39387	.27333	352.38
#1	.00345	.00129	3.8524	2.5582	-.00218
#2	.00260	.00344	3.8739	2.5484	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213151-D-1-A Acquired: 10/8/2023 16:22:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.740**	**1.2641**	**.00148**	**3.7468**	**.00315**
Stddev	.022	.0010	.00019	.0197	.00004
%RSD	.08363	.07518	12.977	.52491	1.4075
#1	26.755	1.2635	.00162	3.7607	.00318
#2	26.724	1.2648	.00135	3.7329	.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4785**	**.00469**	**7.1185**	**.00023**	**-.00021**
Stddev	.0019	.00176	.0088	.00146	.00074
%RSD	.4015	37.438	.12394	637.28	359.91
#1	.4772	.00345	7.1248	.00126	-.00073
#2	.4799	.00593	7.1123	-.00080	.00032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.288**	**.00113**	**.45786**	**-.0268**	**.10612**
Stddev	.001	.00016	.00005	.0137	.00103
%RSD	.00567	14.291	.01098	51.21	.96916
#1	12.287	.00124	.45790	-.0171	.10685
#2	12.288	.00102	.45783	-.0365	.10539
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213151-D-1-A Acquired: 10/8/2023 16:22:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.00437**	**.02562**	**.0109**
Stddev	.00066	.00031	.00025	.0014
%RSD	62.422	7.1812	.97585	13.26
#1	-.00059	.00415	.02544	.0119
#2	-.00152	.00459	.02580	.0099
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12761.**	**12687.**	**73834.**	**5817.8**
Stddev	9.	5.	62.	41.4
%RSD	.07019	.04112	.08417	.71096
#1	12767.	12691.	73878.	5788.5
#2	12754.	12683.	73790.	5847.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.663%	100.36%	97.787%	96.917%
Range				

Sample Name: 480-213151-D-2-A Acquired: 10/8/2023 16:25:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.06505**	**-.00123**	**.14851**	**.05704**
Stddev	.00131	.03181	.00202	.00190	.00028
%RSD	152.29	48.895	164.30	1.2767	.48771
#1	-.00179	.08754	-.00266	.14985	.05724
#2	.00007	.04256	.00020	.14717	.05684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**102.41**	**.00028**	**.0344**	**-.00003**
Stddev	.00001	.08	.00007	.0396	.00007
%RSD	13.590	.07781	25.359	115.2	276.75
#1	.00011	102.47	.00023	.0624	-.00008
#2	.00009	102.35	.00033	.0064	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00188**	**-.00041**	**2.5786**	**-.00510**
Stddev	.00000	.00051	.00133	.0074	.00084
%RSD	.78636	27.238	324.67	.28638	16.470
#1	.00054	-.00224	-.00135	2.5733	-.00450
#2	.00053	-.00152	.00053	2.5838	-.00569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213151-D-2-A Acquired: 10/8/2023 16:25:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.568**	**.00101**	**.00030**	**23.410**	**.00181**
Stddev	.077	.00004	.00007	.068	.00002
%RSD	.39139	3.4647	22.919	.28852	1.2789
#1	19.622	.00104	.00034	23.458	.00182
#2	19.514	.00099	.00025	23.362	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4190**	**.00031**	**9.6322**	**-.00032**	**-.00097**
Stddev	.0003	.00017	.0163	.00075	.00034
%RSD	.0686	56.329	.16930	231.16	35.021
#1	.4188	.00043	9.6438	.00021	-.00121
#2	.4192	.00018	9.6207	-.00085	-.00073
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8041**	**.00020**	**.56772**	**-.0140**	**.00104**
Stddev	.0387	.00032	.00002	.0064	.00045
%RSD	.66631	159.18	.00411	46.17	43.819
#1	5.8315	-.00003	.56770	-.0094	.00136
#2	5.7768	.00043	.56774	-.0185	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213151-D-2-A Acquired: 10/8/2023 16:25:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00066**	**-.00045**	**.00672**	**.0114**
Stddev	.00105	.00003	.00053	.0019
%RSD	159.38	5.9739	7.8508	17.12
#1	-.00140	-.00043	.00635	.0127
#2	.00008	-.00047	.00710	.0100
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12476.**	**12397.**	**72944.**	**5846.1**
Stddev	48.	52.	66.	8.7
%RSD	.38315	.41951	.09003	.14889
#1	12443.	12360.	72897.	5840.0
#2	12510.	12433.	72990.	5852.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.554%	98.068%	96.608%	97.389%
Range				

Sample Name: 480-213117-G-7-A Acquired: 10/8/2023 16:29:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.04763**	**-.00098**	**.01629**	**.03136**
Stddev	.00076	.00489	.00004	.00075	.00001
%RSD	345.58	10.267	4.4422	4.6197	.01914
#1	.00076	.04417	-.00101	.01682	.03136
#2	-.00032	.05109	-.00095	.01575	.03137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**71.631**	**.00011**	**.0071**	**.00333**
Stddev	.00012	.294	.00007	.0187	.00008
%RSD	62.216	.41009	63.506	262.9	2.2575
#1	.00028	71.423	.00006	.0204	.00328
#2	.00011	71.838	.00017	-.0061	.00338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06266**	**-.00130**	**1.1575**	**1.3543**	**.00131**
Stddev	.00033	.00075	.0043	.1357	.00068
%RSD	.52329	57.434	.37468	10.021	51.868
#1	.06242	-.00077	1.1544	1.2584	.00083
#2	.06289	-.00183	1.1606	1.4503	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213117-G-7-A Acquired: 10/8/2023 16:29:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.732**	**.04629**	**.00058**	**78.710**	**.16542**
Stddev	.035	.00041	.00012	.078	.00056
%RSD	.27102	.88799	21.534	.09903	.33883
#1	12.708	.04658	.00049	78.655	.16582
#2	12.757	.04600	.00067	78.765	.16502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4222**	**.00045**	**7.7321**	**-.00116**	**-.00307**
Stddev	.0000	.00038	.0020	.00051	.00565
%RSD	.0035	83.810	.02577	44.249	184.09
#1	.4222	.00072	7.7307	-.00152	.00093
#2	.4223	.00018	7.7335	-.00080	-.00706
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8446**	**.00004**	**.29892**	**-.0238**	**.00073**
Stddev	.0255	.00054	.00084	.0011	.00034
%RSD	.37305	1365.3	.28066	4.765	46.135
#1	6.8265	-.00034	.29833	-.0230	.00096
#2	6.8626	.00042	.29952	-.0246	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213117-G-7-A Acquired: 10/8/2023 16:29:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00111**	**.00010**	**.00202**	**.0122**
Stddev	.00017	.00028	.00003	.0008
%RSD	15.418	278.12	1.4573	6.887
#1	-.00123	-.00010	.00204	.0128
#2	-.00099	.00030	.00200	.0116
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12375.**	**12388.**	**73034.**	**5835.3**
Stddev	35.	33.	39.	17.1
%RSD	.28427	.26943	.05350	.29265
#1	12351.	12365.	73007.	5847.4
#2	12400.	12412.	73062.	5823.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.804%	98.001%	96.728%	97.209%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 16:33:07 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0189**	**48.710**	**.97199**	**.99223**	**.99283**
Stddev	.0014	.014	.00005	.00219	.00079
%RSD	.13300	.02873	.00524	.22070	.07977
#1	1.0179	48.720	.97203	.99378	.99227
#2	1.0199	48.700	.97196	.99068	.99339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96994**	**48.267**	**.96979**	**1.004**	**.96230**
Stddev	.00072	.037	.00138	.024	.00011
%RSD	.07403	.07653	.14204	2.371	.01180
#1	.96944	48.293	.97076	.9868	.96238
#2	.97045	48.241	.96881	1.020	.96222
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0260**	**.99205**	**48.570**	**47.541**	**.91456**
Stddev	.0037	.00576	.002	.015	.00095
%RSD	.35579	.58025	.00502	.03190	.10364
#1	1.0234	.98798	48.568	47.552	.91523
#2	1.0286	.99612	48.572	47.531	.91389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 16:33:07 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.618**	**.98907**	**.98858**	**47.665**	**.96219**
Stddev	.207	.00389	.00257	.122	.00127
%RSD	.40819	.39338	.25978	.25625	.13207
#1	50.472	.98632	.99040	47.751	.96130
#2	50.764	.99182	.98676	47.578	.96309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.55**	**.96784**	**24.858**	**.96932**	**.96961**
Stddev	.03	.00185	.033	.00064	.00588
%RSD	.1419	.19129	.13286	.06588	.60628
#1	24.58	.96653	24.882	.96977	.97376
#2	24.53	.96915	24.835	.96887	.96545
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7211**	**.96335**	**.99567**	**.9866**	**1.0021**
Stddev	.0187	.00027	.00061	.0106	.0056
%RSD	.19211	.02797	.06080	1.078	.55791
#1	9.7079	.96316	.99524	.9791	.99811
#2	9.7343	.96355	.99610	.9941	1.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 16:33:07 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97577**	**1.0131**	**1.0269**	**.9936**
Stddev	.00203	.0035	.0032	.0011
%RSD	.20786	.34360	.31009	.1117
#1	.97433	1.0106	1.0246	.9944
#2	.97720	1.0155	1.0291	.9928
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12115.**	**12621.**	**71739.**	**5796.7**
Stddev	24.	32.	42.	53.4
%RSD	.19733	.25517	.05868	.92143
#1	12099.	12598.	71709.	5759.0
#2	12132.	12644.	71769.	5834.5

Sample Name: CCB-7506043 Acquired: 10/8/2023 16:36:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.01443**	**-.00011**	**.00391**	**.00002**
Stddev	.00161	.00557	.00219	.00012	.00001
%RSD	506.45	38.603	1957.7	2.9637	39.624
#1	-.00082	-.01049	-.00166	.00399	.00003
#2	.00145	-.01837	.00144	.00383	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00749**	**-.00006**	**-.0035**	**-.00004**
Stddev	.00006	.00080	.00002	.0058	.00012
%RSD	29.598	10.724	31.248	165.7	278.65
#1	.00025	-.00806	-.00007	.0006	.00004
#2	.00016	-.00692	-.00004	-.0076	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00420**	**.00047**	**.11144**	**.00015**
Stddev	.00000	.00042	.00395	.07106	.00317
%RSD	4.4484	9.9364	831.80	63.764	2078.7
#1	.00006	-.00391	.00326	.16168	-.00209
#2	.00007	-.00450	-.00232	.06119	.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 16:36:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00005**	**.00017**	**.03176**	**.00027**
Stddev	.00282	.00004	.00031	.00766	.00035
%RSD	233.12	85.183	177.43	24.133	129.19
#1	.00320	.00008	.00039	.03718	.00052
#2	-.00078	.00002	-.00004	.02634	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4201**	**-.00034**	**.00712**	**-.00053**	**-.00032**
Stddev	.0014	.00043	.00003	.00049	.00236
%RSD	.3261	124.59	.39881	93.167	730.55
#1	.4211	-.00004	.00714	-.00018	.00135
#2	.4192	-.00064	.00710	-.00088	-.00199
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01096**	**.00020**	**.00014**	**-.0403**	**.00033**
Stddev	.00571	.00046	.00000	.0080	.00026
%RSD	52.091	225.23	1.8243	19.99	79.299
#1	.00692	.00053	.00014	-.0459	.00051
#2	.01499	-.00012	.00014	-.0346	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 16:36:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00011**	**-.00020**	**.0116**
Stddev	.00019	.00004	.00011	.0017
%RSD	175.84	36.773	54.318	15.04
#1	.00024	.00008	-.00012	.0103
#2	-.00003	.00014	-.00027	.0128
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13649.**	**12836.**	**75228.**	**5845.2**
Stddev	18.	26.	50.	52.3
%RSD	.13370	.20241	.06712	.89454
#1	13636.	12818.	75192.	5808.2
#2	13662.	12855.	75264.	5882.1

Sample Name: CCVL-7610998 Acquired: 10/8/2023 16:40:24 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00718**	**.21863**	**.01408**	**.02325**	**.00212**
Stddev	.00015	.03350	.00014	.00051	.00001
%RSD	2.1051	15.324	1.0019	2.2112	.60224
#1	.00728	.19494	.01418	.02361	.00212
#2	.00707	.24232	.01398	.02289	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.50937**	**.00209**	**.0147**	**.00369**
Stddev	.00010	.00039	.00006	.0287	.00021
%RSD	4.8875	.07600	2.9994	196.1	5.6173
#1	.00219	.50964	.00213	.0350	.00384
#2	.00204	.50910	.00204	-.0057	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00433**	**.00770**	**.05497**	**.60646**	**.02465**
Stddev	.00027	.00011	.00282	.00281	.00165
%RSD	6.3130	1.4729	5.1265	.46285	6.6976
#1	.00452	.00762	.05696	.60844	.02348
#2	.00414	.00778	.05298	.60447	.02582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/8/2023 16:40:24 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20512**	F **.00883**	**.01058**	**1.0224**	**.00932**
Stddev	.00170	.00006	.00005	.0021	.00029
%RSD	.82912	.62825	.47461	.20346	3.0605
#1	.20392	.00879	.01062	1.0238	.00952
#2	.20632	.00887	.01055	1.0209	.00912
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4174**	**.00856**	**.22236**	**.02465**	**.02456**
Stddev	.0005	.00038	.00325	.00127	.00012
%RSD	.1116	4.4717	1.4618	5.1672	.47152
#1	.4171	.00883	.22466	.02555	.02465
#2	.4177	.00829	.22006	.02375	.02448
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47494**	**.00940**	**.00500**	F **-.0302**	**.00511**
Stddev	.01090	.00024	.00016	.0044	.00043
%RSD	2.2953	2.5026	3.1660	14.75	8.4187
#1	.46723	.00957	.00511	-.0270	.00480
#2	.48264	.00924	.00489	-.0333	.00541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 16:40:24 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01929**	**.00536**	**.01064**	F **.0140**
Stddev	.00129	.00026	.00015	.0044
%RSD	6.6729	4.8224	1.4439	31.14
#1	.01838	.00554	.01054	.0109
#2	.02020	.00517	.01075	.0170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13587.**	**12863.**	**75142.**	**5831.2**
Stddev	149.	127.	358.	8.8
%RSD	1.0959	.98479	.47598	.15174
#1	13481.	12773.	74889.	5837.5
#2	13692.	12952.	75395.	5824.9

Sample Name: 480-213165-D-1-A@5 Acquired: 10/8/2023 16:44:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.35735**	**.01416**	**3.8960**	**.09985**
Stddev	.00023	.02854	.00088	.0072	.00009
%RSD	108.28	7.9863	6.1986	.18573	.09145
#1	-.00005	.37754	.01354	3.9011	.09979
#2	-.00038	.33717	.01478	3.8909	.09992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**22.143**	**.00016**	**.0330**	**.00961**
Stddev	.00010	.025	.00012	.0294	.00001
%RSD	69.632	.11249	74.191	89.34	.10832
#1	.00022	22.161	.00024	.0538	.00962
#2	.00007	22.126	.00007	.0121	.00960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07790**	**.00120**	**.58645**	**125.75**	**.02558**
Stddev	.00025	.00036	.00218	.10	.00071
%RSD	.31675	30.298	.37227	.07971	2.7763
#1	.07807	.00094	.58491	125.68	.02508
#2	.07772	.00146	.58800	125.82	.02608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213165-D-1-A@5 Acquired: 10/8/2023 16:44:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.506**	**.23148**	**.00261**	**517.39**	**.05478**
Stddev	.024	.00051	.00036	.54	.00014
%RSD	.08355	.21956	13.607	.10454	.26231
#1	28.489	.23184	.00286	517.01	.05488
#2	28.523	.23112	.00236	517.77	.05468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.495**	**.00022**	**11.485**	**.00300**	**-.00303**
Stddev	.005	.00038	.010	.00102	.00030
%RSD	.1554	172.91	.08848	34.103	10.047
#1	3.499	.00049	11.492	.00227	-.00324
#2	3.491	-.00005	11.477	.00372	-.00281
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4745**	**.01301**	**.16809**	**-.0309**	**.13508**
Stddev	.0284	.00009	.00049	.0025	.00000
%RSD	.51892	.69594	.29373	8.195	.00088
#1	5.4946	.01308	.16774	-.0327	.13508
#2	5.4544	.01295	.16844	-.0291	.13508
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213165-D-1-A@5 Acquired: 10/8/2023 16:44:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00006**	**.02517**	**.03511**	**.0349**
Stddev	.00235	.00013	.00030	.0051
%RSD	3634.0	.52458	.84907	14.64
#1	.00173	.02527	.03490	.0386
#2	-.00160	.02508	.03532	.0313
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11199.**	**11933.**	**69339.**	**5826.5**
Stddev	6.	5.	3.	20.5
%RSD	.05493	.04445	.00474	.35187
#1	11204.	11929.	69337.	5812.0
#2	11195.	11937.	69342.	5841.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.079%	94.400%	91.834%	97.063%
Range				

Sample Name: rinse Acquired: 10/8/2023 16:47:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.01514**	**-.00060**	**.00451**	**.00003**
Stddev	.00019	.00282	.00094	.00046	.00001
%RSD	57.232	18.612	155.82	10.226	27.716
#1	.00019	.01315	-.00126	.00484	.00002
#2	.00046	.01713	.00006	.00419	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00466**	**-.00002**	**-.0159**	**-.00030**
Stddev	.00008	.00117	.00002	.0346	.00015
%RSD	98.919	25.029	98.726	217.4	49.542
#1	.00002	-.00548	-.00004	.0086	-.00041
#2	.00013	-.00383	-.00001	-.0404	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00249**	**.00022**	**.19556**	**-.00230**
Stddev	.00002	.00051	.00357	.04569	.00178
%RSD	13.505	20.672	1617.3	23.365	77.156
#1	-.00010	-.00212	-.00230	.22787	-.00105
#2	-.00013	-.00285	.00275	.16325	-.00356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 16:47:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**.00001**	**-.00002**	**.07578**	**-.00006**
Stddev	.00441	.00001	.00017	.01158	.00046
%RSD	202.87	108.47	893.86	15.287	834.48
#1	.00529	.00002	.00010	.06759	.00027
#2	-.00094	.00000	-.00014	.08397	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4174**	**-.00180**	**.00121**	**.00151**	**-.00130**
Stddev	.0007	.00121	.00014	.00112	.00504
%RSD	.1657	67.261	11.779	73.965	386.75
#1	.4169	-.00265	.00111	.00230	.00226
#2	.4179	-.00094	.00131	.00072	-.00487
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**-.00038**	**-.00000**	**-.0341**	**.00055**
Stddev	.00374	.00022	.00020	.0096	.00011
%RSD	185.91	56.987	5123.9	28.31	19.895
#1	-.00063	-.00054	-.00015	-.0409	.00047
#2	.00466	-.00023	.00014	-.0272	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 16:47:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.00048**	**-.00011**	**.0111**
Stddev	.00124	.00005	.00041	.0013
%RSD	201.39	9.6485	366.68	11.92
#1	.00026	.00045	.00018	.0120
#2	-.00149	.00051	-.00040	.0102
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13602.**	**12786.**	**75489.**	**5803.0**
Stddev	58.	35.	353.	26.2
%RSD	.42685	.27433	.46803	.45157
#1	13643.	12811.	75239.	5821.6
#2	13561.	12762.	75738.	5784.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.90%	101.15%	99.978%	96.671%
Range				

Sample Name: MB 480-685445/1-A Acquired: 10/8/2023 16:51:30 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.03046**	**-.00030**	**.00371**	**.00007**
Stddev	.00007	.00210	.00027	.00044	.00003
%RSD	22.294	6.9072	88.922	11.857	36.911
#1	-.00036	.03195	-.00049	.00402	.00005
#2	-.00026	.02898	-.00011	.00340	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.02359**	**-.00002**	**-.0130**	**-.00013**
Stddev	.00011	.00321	.00013	.0118	.00001
%RSD	109.05	13.603	569.07	91.16	9.6271
#1	.00002	.02132	-.00011	-.0214	-.00013
#2	.00018	.02586	.00007	-.0046	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00082**	**.02268**	**.14832**	**-.00327**
Stddev	.00042	.00124	.00305	.00936	.00134
%RSD	57.065	149.96	13.464	6.3083	41.063
#1	.00103	.00005	.02484	.15493	-.00421
#2	.00044	-.00170	.02052	.14170	-.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685445/1-A Acquired: 10/8/2023 16:51:30 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00296**	**.00077**	**-.00012**	**.22421**	**.00018**
Stddev	.00174	.00001	.00005	.01579	.00055
%RSD	58.754	1.4378	37.767	7.0406	308.84
#1	.00173	.00077	-.00015	.23537	-.00021
#2	.00419	.00076	-.00009	.21305	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4200**	**-.00176**	**.01984**	**.00192**	**.00008**
Stddev	.0005	.00046	.00089	.00030	.00193
%RSD	.1208	26.225	4.4611	15.823	2276.9
#1	.4203	-.00209	.01922	.00170	.00145
#2	.4196	-.00143	.02047	.00213	-.00128
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01403**	**.00045**	**.00020**	**-.0128**	**.00013**
Stddev	.00163	.00020	.00024	.0041	.00002
%RSD	11.625	44.253	119.64	32.52	12.128
#1	-.01519	.00031	.00003	-.0098	.00014
#2	-.01288	.00059	.00037	-.0157	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685445/1-A Acquired: 10/8/2023 16:51:30 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00003**	**.00118**	**.0109**
Stddev	.00019	.00037	.00002	.0017
%RSD	43.724	1105.7	1.7724	15.82
#1	-.00057	-.00023	.00116	.0097
#2	-.00030	.00030	.00119	.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13535.**	**12808.**	**75389.**	**5799.0**
Stddev	26.	33.	47.	68.5
%RSD	.19014	.25570	.06245	1.1815
#1	13516.	12785.	75422.	5750.5
#2	13553.	12831.	75355.	5847.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.40%	101.32%	99.846%	96.604%
Range				

Sample Name: LCS 480-685445/2-A Acquired: 10/8/2023 16:55:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04752**	**10.042**	**.20120**	**.20661**	**.21101**
Stddev	.00056	.020	.00024	.00001	.00040
%RSD	1.1697	.19918	.11770	.00466	.18968
#1	.04712	10.057	.20137	.20660	.21072
#2	.04791	10.028	.20103	.20661	.21129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20602**	**9.9919**	**.20126**	**.0182**	**.20114**
Stddev	.00026	.0024	.00076	.0040	.00074
%RSD	.12404	.02425	.37887	21.70	.36640
#1	.20621	9.9902	.20179	.0154	.20166
#2	.20584	9.9937	.20072	.0210	.20061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20796**	**.20187**	**9.9993**	**9.9129**	**.18231**
Stddev	.00098	.00161	.0075	.0146	.00008
%RSD	.47325	.79538	.07487	.14683	.04176
#1	.20726	.20073	9.9940	9.9232	.18236
#2	.20865	.20300	10.005	9.9026	.18225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685445/2-A Acquired: 10/8/2023 16:55:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.072**	**.20902**	**.20594**	**10.241**	**.19620**
Stddev	.005	.00007	.00003	.035	.00052
%RSD	.04608	.03241	.01472	.34351	.26654
#1	10.069	.20897	.20592	10.266	.19583
#2	10.076	.20907	.20596	10.216	.19657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4125**	**.20209**	**10.485**	**.22416**	**.19945**
Stddev	.0005	.00073	.020	.00005	.00305
%RSD	.1190	.36061	.18702	.02132	1.5289
#1	.4128	.20261	10.499	.22413	.20161
#2	.4121	.20157	10.472	.22420	.19730
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7829**	**.19591**	**.20704**	**-.0194**	**.20576**
Stddev	.0174	.00110	.00075	.0233	.00121
%RSD	.17742	.56044	.36287	120.0	.59047
#1	9.7706	.19669	.20757	-.0358	.20490
#2	9.7952	.19514	.20651	-.0029	.20662
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685445/2-A Acquired: 10/8/2023 16:55:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20919**	**.20372**	**.20356**	**.0133**
Stddev	.00130	.00109	.00025	.0008
%RSD	.62029	.53430	.12417	5.988
#1	.21010	.20295	.20338	.0139
#2	.20827	.20449	.20374	.0128
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12977.**	**12738.**	**74502.**	**5745.9**
Stddev	53.	57.	115.	34.6
%RSD	.40824	.44365	.15489	.60193
#1	12939.	12699.	74420.	5721.5
#2	13014.	12778.	74583.	5770.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.265%	100.77%	98.671%	95.720%
Range				

Sample Name: 480-213125-B-1-A Acquired: 10/8/2023 16:58:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.10312**	**.01207**	F **25.816**	**.01977**
Stddev	.00019	.01803	.00158	.001	.00003
%RSD	30.869	17.480	13.075	.00523	.16030
#1	-.00047	.09037	.01096	25.817	.01975
#2	-.00073	.11586	.01319	25.815	.01979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**268.50**	**.00015**	**-.0589**	**-.00148**
Stddev	.00007	4.14	.00007	.0131	.00019
%RSD	51.894	1.5422	46.942	22.29	12.876
#1	.00009	271.43	.00010	-.0682	-.00162
#2	.00019	265.57	.00020	-.0496	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00453**	**.04692**	**69.119**	**1.1530**
Stddev	.00002	.00149	.00050	.138	.0053
%RSD	1.7797	32.834	1.0614	.19931	.46164
#1	.00096	.00559	.04727	69.216	1.1568
#2	.00094	.00348	.04656	69.022	1.1492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-A Acquired: 10/8/2023 16:58:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**61.811**	**.04821**	**1.2478**	**334.34**	**.00143**
Stddev	.035	.00006	.0008	.77	.00023
%RSD	.05592	.12110	.06763	.22985	16.341
#1	61.836	.04825	1.2484	334.88	.00159
#2	61.787	.04817	1.2472	333.79	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4409**	**.00317**	F **466.85**	**-.00796**	**-.00024**
Stddev	.0008	.00105	.12	.00046	.00186
%RSD	.1731	33.083	.02608	5.7420	763.95
#1	.4404	.00243	466.76	-.00764	-.00156
#2	.4415	.00391	466.94	-.00829	.00107
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3030**	**.00020**	**4.9962**	**-.0162**	**.00213**
Stddev	.0388	.00069	.0092	.0029	.00001
%RSD	.90192	338.51	.18434	18.15	.30365
#1	4.3304	.00069	5.0027	-.0182	.00213
#2	4.2755	-.00029	4.9897	-.0141	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-A Acquired: 10/8/2023 16:58:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00168**	**-.00074**	**.00403**	**.0090**
Stddev	.00142	.00001	.00048	.0008
%RSD	84.204	.95947	11.825	8.686
#1	.00068	-.00075	.00437	.0095
#2	.00269	-.00074	.00370	.0084
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10991.**	**11662.**	**68349.**	**5648.8**
Stddev	10.	13.	200.	48.5
%RSD	.08895	.11417	.29311	.85786
#1	10984.	11653.	68208.	5614.6
#2	10998.	11672.	68491.	5683.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.537%	92.258%	90.523%	94.102%
Range				

Sample Name: 480-213125-B-1-Asd@5 Acquired: 10/8/2023 17:02:27 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.08797**	**.00383**	**6.7178**	**.00633**
Stddev	.00035	.03135	.00099	.0027	.00007
%RSD	116.85	35.638	25.919	.03978	1.1737
#1	-.00005	.11013	.00454	6.7159	.00639
#2	-.00055	.06580	.00313	6.7197	.00628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**78.707**	**.00017**	**-.0589**	**-.00024**
Stddev	.00027	.074	.00017	.0053	.00007
%RSD	256.24	.09394	99.038	9.021	30.241
#1	.00030	78.760	.00005	-.0626	-.00030
#2	-.00009	78.655	.00030	-.0551	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00097**	**.02212**	**18.287**	**.30748**
Stddev	.00010	.00092	.00027	.186	.00139
%RSD	33.045	95.225	1.2372	1.0194	.45059
#1	.00023	-.00032	.02231	18.419	.30846
#2	.00038	-.00162	.02192	18.155	.30650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-Asd@5 Acquired: 10/8/2023 17:02:27 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.929**	**.01390**	**.35299**	**88.751**	**.00036**
Stddev	.112	.00007	.00040	.426	.00058
%RSD	.62320	.49574	.11240	.47984	158.44
#1	18.008	.01385	.35327	89.052	.00077
#2	17.850	.01395	.35271	88.450	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4249**	**.00035**	F **111.88**	**-.00101**	**-.00019**
Stddev	.0023	.00013	.09	.00257	.00151
%RSD	.5461	38.102	.08289	254.57	801.24
#1	.4265	.00026	111.81	.00081	.00088
#2	.4232	.00045	111.94	-.00282	-.00126
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1270**	**.00025**	**1.4337**	**-.0302**	**.00090**
Stddev	.0153	.00021	.0018	.0060	.00006
%RSD	1.3605	84.536	.12622	19.83	6.3076
#1	1.1161	.00010	1.4350	-.0344	.00094
#2	1.1378	.00040	1.4324	-.0260	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-Asd@5 Acquired: 10/8/2023 17:02:27 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00025**	**.00007**	**.0138**
Stddev	.00230	.00017	.00009	.0007
%RSD	2966.0	69.482	133.12	4.854
#1	-.00170	-.00037	.00013	.0143
#2	.00155	-.00013	.00000	.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12185.**	**12289.**	**72412.**	**5764.9**
Stddev	26.	14.	340.	62.1
%RSD	.21027	.11240	.46968	1.0780
#1	12166.	12279.	72171.	5720.9
#2	12203.	12299.	72652.	5808.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.388%	97.215%	95.903%	96.036%
Range				

Sample Name: 480-213125-B-1-APDS Acquired: 10/8/2023 17:06:04 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04937**	**10.310**	**.24282**	F **32.956**	**.23595**
Stddev	.00095	.027	.00081	.049	.00025
%RSD	1.9214	.26060	.33348	.14837	.10716
#1	.05004	10.291	.24340	32.922	.23577
#2	.04870	10.329	.24225	32.991	.23613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21541**	**397.39**	**.21927**	**.0454**	**.21948**
Stddev	.00019	1.48	.00047	.0091	.00027
%RSD	.08883	.37294	.21447	19.98	.12288
#1	.21528	396.34	.21893	.0390	.21929
#2	.21555	398.44	.21960	.0519	.21967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21430**	**.20889**	**10.279**	**101.98**	**1.7498**
Stddev	.00019	.00245	.029	.28	.0037
%RSD	.08784	1.1715	.27917	.27116	.21430
#1	.21443	.21063	10.258	101.78	1.7471
#2	.21417	.20716	10.299	102.18	1.7524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-APDS Acquired: 10/8/2023 17:06:04 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**99.572**	**.27970**	**1.9502**	**451.95**	**.21627**
Stddev	.397	.00010	.0031	.28	.00067
%RSD	.39881	.03497	.15830	.06219	.30786
#1	99.291	.27977	1.9480	451.75	.21580
#2	99.853	.27963	1.9524	452.15	.21674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4415**	**.22389**	F **564.46**	**.22976**	**.22095**
Stddev	.0009	.00007	.83	.00054	.00011
%RSD	.2085	.03298	.14724	.23526	.04797
#1	.4422	.22395	563.87	.22938	.22102
#2	.4409	.22384	565.05	.23014	.22087
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.692**	**.21278**	**7.3397**	**-.0158**	**.21999**
Stddev	.075	.00021	.0508	.0129	.00001
%RSD	.47969	.09886	.69189	81.84	.00658
#1	15.639	.21263	7.3037	-.0067	.22000
#2	15.746	.21292	7.3756	-.0249	.21998
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-APDS Acquired: 10/8/2023 17:06:04 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21060**	**.21727**	**.20786**	**.0142**
Stddev	.00206	.00037	.00081	.0016
%RSD	.97820	.17160	.39017	11.21
#1	.20914	.21700	.20729	.0130
#2	.21205	.21753	.20843	.0153
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10577.**	**11437.**	**67161.**	**5602.9**
Stddev	12.	16.	264.	7.3
%RSD	.11511	.13680	.39347	.13014
#1	10569.	11426.	67348.	5608.1
#2	10586.	11448.	66975.	5597.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.467%	90.474%	88.950%	93.338%
Range				

Sample Name: 480-213125-B-1-B MS Acquired: 10/8/2023 17:09:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04926**	**9.9181**	**.22565**	F **29.837**	**.22936**
Stddev	.00153	.0313	.00052	.040	.00994
%RSD	3.1090	.31583	.23033	.13477	4.3345
#1	.05034	9.9403	.22528	29.808	.23639
#2	.04817	9.8960	.22601	29.865	.22233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20526**	**352.77**	**.20491**	**.0655**	**.20642**
Stddev	.00077	.93	.00019	.0393	.00021
%RSD	.37382	.26270	.09458	59.98	.10383
#1	.20581	353.43	.20477	.0933	.20657
#2	.20472	352.12	.20505	.0377	.20627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20711**	**.20394**	**9.7489**	**93.198**	**1.5981**
Stddev	.00912	.00998	.0430	.405	.0033
%RSD	4.4041	4.8933	.44151	.43470	.20401
#1	.21356	.21099	9.7794	93.484	1.6005
#2	.20066	.19688	9.7185	92.911	1.5958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-B MS Acquired: 10/8/2023 17:09:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.569**	**.26808**	**1.7350**	**409.22**	**.20306**
Stddev	3.630	.01150	.0024	1.05	.00037
%RSD	4.0077	4.2899	.13948	.25595	.18332
#1	93.135	.27621	1.7333	409.96	.20332
#2	88.002	.25995	1.7367	408.48	.20280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4348**	**.20683**	F **521.38**	**.21849**	**.20606**
Stddev	.0001	.00176	.71	.00210	.00114
%RSD	.0140	.85247	.13611	.96144	.55514
#1	.4349	.20808	520.87	.21700	.20687
#2	.4348	.20559	521.88	.21998	.20525
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.073**	**.20149**	**6.5475**	**-.0307**	**.21205**
Stddev	.024	.00022	.0490	.0174	.00981
%RSD	.16203	.10760	.74871	56.68	4.6255
#1	15.055	.20134	6.5821	-.0430	.21899
#2	15.090	.20165	6.5128	-.0184	.20512
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-B MS Acquired: 10/8/2023 17:09:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19989**	**.20795**	**.20117**	**.0101**
Stddev	.00256	.00807	.00767	.0003
%RSD	1.2799	3.8794	3.8134	3.341
#1	.20170	.21366	.20659	.0098
#2	.19808	.20225	.19574	.0103
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10851.**	**11697.**	**67324.**	**5625.4**
Stddev	2.	.	1769.	2.4
%RSD	.02177	.00015	2.6280	.04205
#1	10849.	11697.	66073.	5627.1
#2	10852.	11697.	68576.	5623.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.492%	92.535%	89.166%	93.712%
Range				

Sample Name: 480-213125-B-1-C MSD Acquired: 10/8/2023 17:13:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05017**	**10.201**	**.23292**	F **31.193**	**.23058**
Stddev	.00050	.016	.00124	.161	.00031
%RSD	.98742	.16146	.53312	.51500	.13609
#1	.05052	10.189	.23379	31.306	.23080
#2	.04982	10.212	.23204	31.079	.23035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20798**	**359.94**	**.21196**	**.0203**	**.21213**
Stddev	.00017	.20	.00122	.0249	.00111
%RSD	.08002	.05609	.57764	123.0	.52503
#1	.20810	360.08	.21283	.0379	.21292
#2	.20786	359.80	.21109	.0026	.21134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20624**	**.20318**	**9.9546**	**95.517**	**1.6405**
Stddev	.00095	.00215	.0080	.099	.0072
%RSD	.46196	1.0602	.08012	.10334	.43990
#1	.20692	.20470	9.9490	95.447	1.6456
#2	.20557	.20166	9.9603	95.587	1.6354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-C MSD Acquired: 10/8/2023 17:13:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.859**	**.26880**	**1.8061**	**422.48**	**.20773**
Stddev	.004	.00014	.0090	.31	.00213
%RSD	.00457	.05291	.49889	.07324	1.0265
#1	90.862	.26870	1.8125	422.69	.20924
#2	90.856	.26890	1.7997	422.26	.20623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4356**	**.21335**	F **544.86**	**.22255**	**.21385**
Stddev	.0019	.00057	3.23	.00372	.00071
%RSD	.4293	.26655	.59335	1.6736	.33217
#1	.4369	.21375	547.15	.22518	.21435
#2	.4342	.21294	542.57	.21991	.21335
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.500**	**.20837**	**6.6926**	**-.0133**	**.21222**
Stddev	.016	.00174	.0129	.0129	.00006
%RSD	.10470	.83611	.19238	97.01	.02878
#1	15.512	.20960	6.6835	-.0042	.21226
#2	15.489	.20714	6.7018	-.0224	.21217
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-1-C MSD Acquired: 10/8/2023 17:13:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20558**	**.21005**	**.20178**	**.0121**
Stddev	.00137	.00073	.00070	.0025
%RSD	.66838	.34775	.34522	20.50
#1	.20655	.21057	.20227	.0139
#2	.20461	.20953	.20128	.0104
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10662.**	**11500.**	**67599.**	**5558.4**
Stddev	43.	36.	205.	2.5
%RSD	.40636	.31209	.30284	.04545
#1	10631.	11474.	67743.	5560.2
#2	10692.	11525.	67454.	5556.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.091%	90.971%	89.529%	92.596%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 17:17:28 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0150**	**48.850**	**.98951**	**1.0473**	**.99956**
Stddev	.0030	.222	.00763	.0080	.00142
%RSD	.29136	.45465	.77076	.76678	.14159
#1	1.0129	48.693	.99490	1.0530	.99856
#2	1.0171	49.007	.98412	1.0416	1.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98168**	**48.601**	**.98403**	**.9971**	**.97979**
Stddev	.00109	.066	.00627	.0193	.00752
%RSD	.11144	.13624	.63694	1.931	.76719
#1	.98091	48.554	.98846	1.011	.98510
#2	.98245	48.648	.97960	.9834	.97447
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0188**	**.99308**	**48.419**	**47.992**	**.92188**
Stddev	.0001	.00221	.076	.142	.00027
%RSD	.01220	.22227	.15698	.29487	.02961
#1	1.0187	.99464	48.366	47.892	.92208
#2	1.0189	.99152	48.473	48.092	.92169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 17:17:28 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.462**	**.99506**	**1.0002**	**48.395**	**.98239**
Stddev	.023	.00042	.0066	.029	.00746
%RSD	.04529	.04227	.66261	.05995	.75912
#1	50.446	.99535	1.0049	48.374	.98766
#2	50.478	.99476	.99550	48.415	.97712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.83**	**.98526**	**25.330**	**.98496**	**.98539**
Stddev	.16	.01011	.156	.00316	.00503
%RSD	.6436	1.0264	.61665	.32132	.51074
#1	24.94	.99241	25.441	.98720	.98894
#2	24.72	.97811	25.220	.98273	.98183
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6755**	**.98272**	**.99698**	**.9936**	**.99987**
Stddev	.0466	.00690	.00190	.0106	.00214
%RSD	.48113	.70175	.19014	1.065	.21428
#1	9.6426	.98760	.99564	1.001	1.0014
#2	9.7084	.97784	.99832	.9861	.99836
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 17:17:28 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99636**	**1.0082**	**1.0247**	**.9861**
Stddev	.00560	.0024	.0004	.0035
%RSD	.56217	.24111	.03455	.3587
#1	1.0003	1.0099	1.0244	.9886
#2	.99239	1.0065	1.0249	.9836
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11940.**	**12450.**	**71741.**	**5679.6**
Stddev	51.	40.	120.	27.2
%RSD	.42926	.32488	.16695	.47832
#1	11904.	12421.	71656.	5660.4
#2	11976.	12479.	71825.	5698.8

Sample Name: CCB-7506043 Acquired: 10/8/2023 17:21:02 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00520**	**-.00006**	F **.03114**	**.00001**
Stddev	.00010	.01960	.00034	.00073	.00002
%RSD	41.061	377.23	579.28	2.3404	170.46
#1	.00018	.00866	.00018	.03166	.00002
#2	.00033	-.01906	-.00030	.03063	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00464**	**-.00005**	**.0101**	**-.00026**
Stddev	.00004	.00128	.00016	.0182	.00003
%RSD	76.754	27.562	297.07	180.7	11.782
#1	.00008	-.00373	.00006	-.0028	-.00024
#2	.00002	-.00554	-.00017	.0230	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00206**	**-.00080**	**.18942**	**-.00419**
Stddev	.00006	.00006	.00132	.01025	.00201
%RSD	25.572	2.8964	164.22	5.4134	47.912
#1	-.00028	-.00210	-.00174	.18217	-.00277
#2	-.00019	-.00202	.00013	.19667	-.00561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 17:21:02 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00001**	**.00011**	**.02778**	**-.00024**
Stddev	.00039	.00002	.00019	.01013	.00043
%RSD	188.87	140.57	180.03	36.449	180.95
#1	.00048	.00000	-.00003	.03494	.00007
#2	-.00007	.00003	.00025	.02062	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4175**	**-.00155**	**.06537**	**.00062**	**.00113**
Stddev	.0003	.00085	.00006	.00114	.00514
%RSD	.0784	54.685	.08800	185.48	455.71
#1	.4177	-.00095	.06541	.00142	.00477
#2	.4173	-.00215	.06533	-.00019	-.00251
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01934**	**.00007**	**-.00009**	**-.0223**	**.00022**
Stddev	.01214	.00001	.00012	.0019	.00033
%RSD	62.782	16.885	131.44	8.350	145.46
#1	-.01076	.00007	-.00018	-.0236	.00045
#2	-.02793	.00006	-.00001	-.0209	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 17:21:02 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00036**	**-.00024**	**.0110**
Stddev	.00001	.00019	.00018	.0014
%RSD	1.0025	53.726	75.326	12.94
#1	-.00082	.00050	-.00036	.0100
#2	-.00080	.00022	-.00011	.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13646.**	**12854.**	**75466.**	**5766.3**
Stddev	48.	48.	566.	10.0
%RSD	.34884	.37641	.75049	.17424
#1	13612.	12820.	75065.	5773.4
#2	13679.	12888.	75866.	5759.2

Sample Name: CCVL-7610998 Acquired: 10/8/2023 17:24:44 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00601**	**.17673**	**.01411**	F **.04540**	**.00215**
Stddev	.00047	.01559	.00291	.00002	.00001
%RSD	7.8367	8.8227	20.596	.03396	.56288
#1	.00568	.16571	.01616	.04542	.00214
#2	.00635	.18776	.01205	.04539	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00212**	**.49571**	**.00220**	**-.0210**	**.00371**
Stddev	.00006	.00059	.00009	.0190	.00012
%RSD	2.9343	.11932	4.1477	90.73	3.1125
#1	.00217	.49613	.00226	-.0075	.00379
#2	.00208	.49530	.00213	-.0344	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.00815**	**.05029**	**.58665**	**.02688**
Stddev	.00008	.00037	.00335	.01770	.00016
%RSD	1.7014	4.5773	6.6673	3.0180	.60564
#1	.00455	.00789	.05266	.57413	.02676
#2	.00444	.00842	.04791	.59917	.02700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7610998 Acquired: 10/8/2023 17:24:44 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20832**	**.00322**	**.01046**	**1.0135**	**.01001**
Stddev	.00243	.00001	.00031	.0121	.00018
%RSD	1.1645	.43279	2.9892	1.1896	1.8424
#1	.21004	.00323	.01068	1.0220	.00988
#2	.20660	.00321	.01024	1.0049	.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4210**	**.00826**	**.25780**	**.02069**	**.02337**
Stddev	.0003	.00031	.00535	.00161	.00119
%RSD	.0608	3.7689	2.0738	7.7942	5.0801
#1	.4208	.00804	.26158	.02183	.02421
#2	.4212	.00848	.25402	.01955	.02253
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47441**	**.00973**	**.00505**	F **-.0109**	**.00539**
Stddev	.00007	.00045	.00006	.0054	.00006
%RSD	.01446	4.6462	1.1445	49.51	1.0880
#1	.47437	.01005	.00501	-.0071	.00534
#2	.47446	.00941	.00510	-.0147	.00543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 17:24:44 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01974**	**.00487**	**.01022**	F **.0112**
Stddev	.00019	.00002	.00023	.0015
%RSD	.97593	.43711	2.2018	13.26
#1	.01960	.00486	.01038	.0101
#2	.01988	.00489	.01006	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13478.**	**12795.**	**74737.**	**5724.8**
Stddev	31.	39.	133.	33.6
%RSD	.23060	.30250	.17762	.58614
#1	13456.	12768.	74831.	5701.1
#2	13500.	12822.	74643.	5748.5

Sample Name: 480-213125-B-2-A Acquired: 10/8/2023 17:28:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.09898**	**.01390**	F **30.672**	**.02514**
Stddev	.00017	.02179	.00138	.030	.00001
%RSD	239.34	22.020	9.9075	.09779	.02351
#1	-.00019	.08357	.01488	30.651	.02515
#2	.00005	.11439	.01293	30.693	.02514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**345.33**	**.00007**	**.0007**	**-.00193**
Stddev	.00011	.04	.00001	.0201	.00019
%RSD	87.722	.01214	19.353	2914.	10.060
#1	.00005	345.30	.00006	.0149	-.00207
#2	.00020	345.36	.00008	-.0135	-.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00129**	**.06589**	**84.341**	**1.4229**
Stddev	.00007	.00072	.00255	.002	.0135
%RSD	6.5070	55.757	3.8665	.00266	.94628
#1	.00111	.00180	.06769	84.339	1.4324
#2	.00101	.00078	.06409	84.343	1.4134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-2-A Acquired: 10/8/2023 17:28:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**80.550**	**.06216**	**1.5829**	**405.61**	**.00165**
Stddev	.049	.00016	.0002	1.59	.00070
%RSD	.06137	.26425	.01524	.39165	42.766
#1	80.584	.06228	1.5827	406.73	.00115
#2	80.515	.06205	1.5831	404.49	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4463**	**.00307**	F **529.05**	**-.00902**	**-.00156**
Stddev	.0013	.00122	.18	.00139	.00029
%RSD	.2899	39.659	.03484	15.437	18.347
#1	.4454	.00394	528.92	-.01000	-.00177
#2	.4472	.00221	529.18	-.00803	-.00136
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1936**	**.00003**	**6.4340**	**-.0393**	**.00156**
Stddev	.0240	.00056	.0736	.0057	.00028
%RSD	.46158	2165.6	1.1441	14.42	17.635
#1	5.2105	-.00037	6.3819	-.0433	.00176
#2	5.1766	.00042	6.4860	-.0353	.00137
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-2-A Acquired: 10/8/2023 17:28:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00100**	**-.00053**	**.00323**	**.0146**
Stddev	.00061	.00088	.00042	.0032
%RSD	61.048	164.60	12.886	21.83
#1	.00057	-.00116	.00352	.0168
#2	.00143	.00009	.00293	.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10817.**	**11563.**	**67822.**	**5608.2**
Stddev	7.	4.	321.	19.6
%RSD	.06756	.03412	.47298	.34935
#1	10822.	11566.	68049.	5594.4
#2	10812.	11560.	67595.	5622.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.246%	91.473%	89.825%	93.426%
Range				

Sample Name: 480-213125-B-3-A Acquired: 10/8/2023 17:32:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.12184**	**.01182**	F **33.320**	**.02416**
Stddev	.00051	.04969	.00107	.090	.00009
%RSD	73.346	40.782	9.0440	.27025	.37475
#1	.00033	.08670	.01258	33.384	.02422
#2	.00106	.15697	.01107	33.256	.02409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**401.63**	**.00013**	**.0774**	**-.00095**
Stddev	.00005	.57	.00015	.0134	.00021
%RSD	81.413	.14099	116.40	17.36	21.769
#1	.00010	401.23	.00002	.0870	-.00110
#2	.00003	402.03	.00024	.0679	-.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00100**	**.81698**	**90.430**	**1.5710**
Stddev	.00010	.00119	.00120	.036	.0003
%RSD	14.070	118.29	.14714	.04016	.01773
#1	.00065	.00184	.81613	90.456	1.5712
#2	.00079	.00016	.81783	90.404	1.5708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-3-A Acquired: 10/8/2023 17:32:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**88.930**	**.36352**	**1.8126**	**435.83**	**.00581**
Stddev	.389	.00026	.0053	.19	.00017
%RSD	.43695	.07026	.29538	.04417	2.9893
#1	89.204	.36334	1.8164	435.70	.00568
#2	88.655	.36370	1.8088	435.97	.00593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4541**	**.00264**	F **571.49**	**-.01180**	**.00740**
Stddev	.0001	.00023	1.36	.00029	.00133
%RSD	.0146	8.7261	.23827	2.4938	18.041
#1	.4542	.00280	572.46	-.01201	.00646
#2	.4541	.00248	570.53	-.01160	.00834
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7398**	**.00050**	**7.0776**	**-.0166**	**.00345**
Stddev	.0037	.00053	.0168	.0112	.00057
%RSD	.07808	106.18	.23726	67.48	16.567
#1	4.7371	.00013	7.0657	-.0087	.00305
#2	4.7424	.00088	7.0895	-.0245	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213125-B-3-A Acquired: 10/8/2023 17:32:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00165**	**.00747**	**.0142**
Stddev	.00005	.00036	.00014	.0001
%RSD	20.086	21.933	1.8776	.8517
#1	-.00021	.00190	.00737	.0141
#2	-.00028	.00139	.00757	.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10633.**	**11394.**	**67256.**	**5544.6**
Stddev	5.	18.	458.	15.9
%RSD	.04327	.16192	.68027	.28620
#1	10630.	11381.	66933.	5555.9
#2	10637.	11408.	67580.	5533.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.882%	90.140%	89.075%	92.367%
Range				

Sample Name: 480-213126-D-1-A Acquired: 10/8/2023 17:36:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.02129**	**.00243**	**.20018**	**.69372**
Stddev	.00048	.02492	.00118	.00183	.00354
%RSD	33559.	117.05	48.639	.91420	.51037
#1	.00034	.03892	.00327	.20147	.69622
#2	-.00034	.00367	.00159	.19889	.69122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**53.742**	**.00026**	**-.0156**	**.04100**
Stddev	.00011	.370	.00007	.0107	.00007
%RSD	52.036	.68761	25.964	68.96	.17785
#1	.00013	54.004	.00021	-.0232	.04095
#2	.00028	53.481	.00031	-.0080	.04105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**.01942**	**.32662**	**3.6533**	**.00409**
Stddev	.00008	.00004	.00189	.0188	.00117
%RSD	5.0122	.21848	.58005	.51594	28.696
#1	.00171	.01939	.32796	3.6667	.00491
#2	.00159	.01945	.32528	3.6400	.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213126-D-1-A Acquired: 10/8/2023 17:36:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.184**	**.03392**	**.00066**	**20.049**	**.00197**
Stddev	.003	.00005	.00030	.191	.00052
%RSD	.02641	.16154	44.981	.95428	26.364
#1	13.182	.03388	.00045	20.185	.00160
#2	13.187	.03395	.00087	19.914	.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.7494**	**.00114**	**5.8883**	**-.00149**	**-.00003**
Stddev	.0040	.00128	.0048	.00035	.00264
%RSD	.5372	112.28	.08185	23.381	8873.8
#1	.7522	.00023	5.8917	-.00124	-.00189
#2	.7465	.00204	5.8849	-.00173	.00183
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8283**	**-.00001**	**.20309**	**-.0224**	**.00051**
Stddev	.0235	.00001	.00100	.0057	.00037
%RSD	.40266	77.464	.49482	25.66	72.006
#1	5.8449	-.00002	.20380	-.0264	.00025
#2	5.8117	-.00001	.20237	-.0183	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213126-D-1-A Acquired: 10/8/2023 17:36:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00006**	**.17129**	**.0120**
Stddev	.00031	.00044	.00001	.0005
%RSD	871.16	688.17	.00614	4.332
#1	-.00018	-.00037	.17128	.0124
#2	.00025	.00025	.17130	.0116
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12709.**	**12493.**	**73544.**	**5730.6**
Stddev	3.	3.	16.	39.9
%RSD	.01992	.02368	.02127	.69602
#1	12707.	12495.	73533.	5702.4
#2	12711.	12491.	73555.	5758.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.277%	98.827%	97.403%	95.465%
Range				

Sample Name: 480-213156-E-1-A Acquired: 10/8/2023 17:39:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**1.5728**	**.00351**	**.76366**	**.10265**
Stddev	.00059	.0207	.00071	.00003	.00016
%RSD	632.77	1.3183	20.252	.00447	.15538
#1	.00051	1.5582	.00401	.76368	.10254
#2	-.00032	1.5875	.00301	.76363	.10276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**59.066**	**.00037**	**.0030**	**.00326**
Stddev	.00011	.134	.00016	.0252	.00001
%RSD	96.390	.22614	42.434	834.1	.33994
#1	.00019	59.160	.00026	-.0148	.00327
#2	.00004	58.971	.00048	.0208	.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**.01081**	**2.0550**	**23.570**	**.00021**
Stddev	.00057	.00118	.0160	.024	.00211
%RSD	16.783	10.954	.77921	.10343	1022.2
#1	.00379	.00997	2.0437	23.553	.00170
#2	.00299	.01165	2.0663	23.588	-.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213156-E-1-A Acquired: 10/8/2023 17:39:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.717**	**.42712**	**.00526**	**111.67**	**.01126**
Stddev	.013	.00040	.00001	.63	.00029
%RSD	.11453	.09308	.27881	.56383	2.5890
#1	11.708	.42740	.00525	111.23	.01105
#2	11.727	.42684	.00527	112.12	.01146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5867**	**.00275**	**22.826**	**.00356**	**.00126**
Stddev	.0012	.00141	.003	.00020	.00060
%RSD	.2024	51.076	.01500	5.7457	48.107
#1	.5859	.00176	22.829	.00341	.00168
#2	.5875	.00375	22.824	.00370	.00083
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1510**	**.00065**	**.21687**	**-.0149**	**.02855**
Stddev	.0216	.00015	.00014	.0014	.00032
%RSD	.68632	23.002	.06496	9.604	1.1076
#1	3.1663	.00055	.21677	-.0159	.02832
#2	3.1357	.00076	.21697	-.0139	.02877
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213156-E-1-A Acquired: 10/8/2023 17:39:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00180**	**.02563**	**.0129**
Stddev	.00049	.00002	.00021	.0023
%RSD	3252.3	1.0936	.82604	17.57
#1	.00036	.00179	.02548	.0145
#2	-.00033	.00182	.02578	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12121.**	**12370.**	**72439.**	**5731.8**
Stddev	19.	24.	215.	6.5
%RSD	.15302	.19032	.29705	.11350
#1	12134.	12386.	72591.	5727.2
#2	12108.	12353.	72287.	5736.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.917%	97.853%	95.940%	95.484%
Range				

Sample Name: 480-213147-F-1-A Acquired: 10/8/2023 17:43:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.03585**	**-.00092**	**1.0625**	**.55928**
Stddev	.00086	.01069	.00160	.0010	.00404
%RSD	270.82	29.828	174.16	.09698	.72264
#1	.00092	.02829	-.00205	1.0632	.56214
#2	-.00029	.04341	.00021	1.0618	.55643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**154.00**	**.00026**	**-.0274**	**-.00022**
Stddev	.00017	.35	.00010	.0191	.00002
%RSD	65.130	.22973	38.823	69.86	6.9022
#1	.00038	154.25	.00019	-.0409	-.00021
#2	.00014	153.75	.00033	-.0139	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**-.00112**	**.02880**	**7.4553**	**.03240**
Stddev	.00044	.00153	.00369	.0485	.00269
%RSD	62.292	136.86	12.823	.65103	8.2872
#1	.00039	-.00004	.03141	7.4896	.03430
#2	.00101	-.00220	.02619	7.4210	.03050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213147-F-1-A Acquired: 10/8/2023 17:43:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.355**	**.17993**	**.00086**	**65.592**	**.00003**
Stddev	.102	.00035	.00003	.608	.00012
%RSD	.30571	.19467	3.1092	.92643	480.41
#1	33.283	.17968	.00084	66.021	-.00006
#2	33.427	.18018	.00088	65.162	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4184**	**.00333**	**.61992**	**-.00326**	**-.00384**
Stddev	.0003	.00110	.00050	.00018	.00142
%RSD	.0709	32.920	.08103	5.4126	37.145
#1	.4182	.00256	.62028	-.00314	-.00283
#2	.4186	.00411	.61957	-.00338	-.00484
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.223**	**.00041**	**1.8507**	**-.0352**	**.00100**
Stddev	.012	.00019	.0005	.0070	.00013
%RSD	.09707	46.648	.02866	19.94	12.920
#1	12.232	.00055	1.8511	-.0402	.00109
#2	12.215	.00027	1.8503	-.0302	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213147-F-1-A Acquired: 10/8/2023 17:43:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00058**	**.00422**	**.0116**
Stddev	.00025	.00034	.00015	.0034
%RSD	114.47	58.654	3.5967	29.16
#1	.00039	-.00034	.00411	.0140
#2	.00004	-.00083	.00433	.0092
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11937.**	**12149.**	**71541.**	**5641.1**
Stddev	9.	18.	325.	9.3
%RSD	.07401	.15093	.45496	.16423
#1	11943.	12162.	71771.	5634.5
#2	11930.	12136.	71311.	5647.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.550%	96.109%	94.750%	93.973%
Range				

Sample Name: 480-213144-A-1-A Acquired: 10/8/2023 17:47:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.38971**	**.00186**	**5.4375**	**.01118**
Stddev	.00027	.03271	.00132	.0082	.00001
%RSD	143.90	8.3941	71.069	.15136	.08617
#1	.00000	.36658	.00280	5.4317	.01119
#2	-.00038	.41284	.00093	5.4433	.01118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**29.745**	**.00014**	**-.0162**	**.00458**
Stddev	.00010	.084	.00009	.0243	.00000
%RSD	45.044	.28399	63.444	150.1	.02151
#1	.00030	29.685	.00021	-.0333	.00458
#2	.00016	29.804	.00008	.0010	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05332**	**.00637**	**.01275**	**2.2407**	**-.00160**
Stddev	.00057	.00027	.00111	.0158	.00143
%RSD	1.0692	4.3138	8.7331	.70620	89.549
#1	.05292	.00657	.01196	2.2295	-.00261
#2	.05372	.00618	.01354	2.2519	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213144-A-1-A Acquired: 10/8/2023 17:47:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1879**	**.00791**	**.06587**	**167.82**	**.00254**
Stddev	.0108	.00005	.00028	.13	.00038
%RSD	.11727	.62904	.42727	.07564	14.957
#1	9.1803	.00795	.06606	167.91	.00281
#2	9.1955	.00788	.06567	167.74	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4247**	**-.00249**	F **114.91**	**-.00171**	**.00171**
Stddev	.0024	.00129	.01	.00079	.00064
%RSD	.5706	51.908	.01077	46.395	37.523
#1	.4230	-.00341	114.90	-.00115	.00125
#2	.4265	-.00158	114.92	-.00227	.00216
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15750**	**.00012**	**.12427**	**-.0107**	**.00043**
Stddev	.02304	.00048	.00017	.0104	.00013
%RSD	14.631	415.51	.13322	97.02	30.295
#1	.14121	.00045	.12416	-.0181	.00052
#2	.17380	-.00022	.12439	-.0034	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213144-A-1-A Acquired: 10/8/2023 17:47:18 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00026**	**.07690**	**.0107**
Stddev	.00144	.00015	.00023	.0009
%RSD	662.16	58.541	.30174	8.064
#1	.00080	.00015	.07706	.0101
#2	-.00124	.00036	.07673	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12061.**	**12292.**	**71967.**	**5696.4**
Stddev	27.	19.	113.	38.1
%RSD	.22060	.15082	.15758	.66818
#1	12079.	12305.	71886.	5723.3
#2	12042.	12279.	72047.	5669.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.470%	97.238%	95.314%	94.895%
Range				

Sample Name: 480-213138-A-1-A Acquired: 10/8/2023 17:50:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.06215**	**.03036**	**2.7327**	**.92219**
Stddev	.00140	.01468	.00051	.0000	.00127
%RSD	447.33	23.621	1.6735	.00132	.13767
#1	-.00130	.07253	.03072	2.7327	.92129
#2	.00068	.05177	.03000	2.7328	.92309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**636.51**	**.00035**	**-.0355**	**.00394**
Stddev	.00007	3.05	.00010	.0022	.00001
%RSD	48.571	.47940	28.669	6.151	.15793
#1	.00009	638.66	.00043	-.0370	.00393
#2	.00019	634.35	.00028	-.0339	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01545**	**.02805**	**1.2752**	**159.83**	**.29462**
Stddev	.00029	.00046	.0034	.26	.00282
%RSD	1.9035	1.6347	.26729	.16474	.95609
#1	.01566	.02837	1.2728	160.02	.29263
#2	.01524	.02773	1.2776	159.64	.29662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213138-A-1-A Acquired: 10/8/2023 17:50:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.265**	**.03013**	**.14662**	F **1118.5**	**.07660**
Stddev	.002	.00008	.00041	.1	.00088
%RSD	.00411	.26503	.27930	.01318	1.1464
#1	42.266	.03008	.14691	1118.6	.07597
#2	42.263	.03019	.14633	1118.4	.07722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.141**	**.00414**	**78.578**	**-.00864**	**.00634**
Stddev	.001	.00119	.012	.00159	.00247
%RSD	.1270	28.850	.01582	18.352	39.040
#1	1.140	.00498	78.570	-.00752	.00459
#2	1.142	.00329	78.587	-.00977	.00809
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4664**	**.00087**	**4.6094**	**-.0445**	**.00747**
Stddev	.0006	.00009	.0045	.0154	.00015
%RSD	.01735	10.642	.09790	34.54	1.9454
#1	3.4668	.00093	4.6062	-.0554	.00757
#2	3.4659	.00080	4.6125	-.0336	.00736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213138-A-1-A Acquired: 10/8/2023 17:50:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.00326**	**.03838**	**.0160**
Stddev	.00043	.00015	.00029	.0015
%RSD	34.865	4.7274	.76669	9.616
#1	-.00155	.00337	.03859	.0149
#2	-.00094	.00315	.03818	.0171
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9978.2**	**11030.**	**64323.**	**5570.6**
Stddev	10.5	12.	199.	44.1
%RSD	.10509	.10594	.30957	.79208
#1	9970.8	11022.	64182.	5539.4
#2	9985.6	11038.	64464.	5601.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.021%	87.257%	85.191%	92.800%
Range				

Sample Name: 480-213155-D-1-A Acquired: 10/8/2023 17:54:48 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**19.347**	**.00951**	**.28889**	**.18862**
Stddev	.00042	.177	.00232	.00123	.00030
%RSD	74.110	.91429	24.370	.42522	.15978
#1	.00085	19.472	.01114	.28976	.18840
#2	.00027	19.222	.00787	.28802	.18883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**80.415**	**.00114**	**.0185**	**.01179**
Stddev	.00008	.514	.00006	.0138	.00010
%RSD	7.1265	.63938	4.9392	74.62	.85367
#1	.00122	80.778	.00110	.0088	.01172
#2	.00110	80.051	.00118	.0283	.01187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02746**	**.07238**	**21.197**	**14.203**	**.01750**
Stddev	.00064	.00054	.102	.127	.00126
%RSD	2.3240	.74146	.48165	.89063	7.2139
#1	.02791	.07276	21.269	14.293	.01839
#2	.02701	.07200	21.124	14.114	.01661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213155-D-1-A Acquired: 10/8/2023 17:54:48 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.844**	**.35995**	**.01813**	**34.412**	**.04337**
Stddev	.135	.00007	.00013	.214	.00035
%RSD	.41220	.02026	.71606	.62211	.81323
#1	32.748	.35990	.01823	34.564	.04362
#2	32.940	.36000	.01804	34.261	.04312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.068**	**.26697**	**24.491**	**.00809**	**.00038**
Stddev	.004	.00398	.066	.00217	.00432
%RSD	.3518	1.4904	.26764	26.861	1150.4
#1	1.070	.26978	24.537	.00655	-.00268
#2	1.065	.26416	24.445	.00963	.00343
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.171**	**.01784**	**.40981**	**-.0203**	**.24810**
Stddev	.327	.00058	.00163	.0112	.00017
%RSD	.95573	3.2552	.39681	55.22	.06868
#1	34.402	.01743	.41096	-.0282	.24822
#2	33.940	.01825	.40866	-.0124	.24798
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213155-D-1-A Acquired: 10/8/2023 17:54:48 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**.04704**	**.18564**	**.0240**
Stddev	.00030	.00079	.00032	.0008
%RSD	88.259	1.6804	.17109	3.426
#1	.00013	.04648	.18586	.0246
#2	.00055	.04760	.18541	.0234
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12329.**	**12778.**	**74174.**	**5831.8**
Stddev	18.	32.	660.	47.5
%RSD	.14506	.25351	.88943	.81437
#1	12316.	12755.	74640.	5798.2
#2	12342.	12801.	73707.	5865.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.461%	101.09%	98.237%	97.151%
Range				

Sample Name: 480-213074-C-1-A Acquired: 10/8/2023 17:58:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.34307**	**.00172**	**.17294**	**.03047**
Stddev	.00005	.04632	.00009	.00094	.00011
%RSD	14.134	13.500	5.1376	.54119	.36749
#1	-.00041	.37582	.00165	.17360	.03055
#2	-.00033	.31032	.00178	.17228	.03039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**55.377**	**.00003**	**.0071**	**.00079**
Stddev	.00013	.114	.00003	.0138	.00011
%RSD	149.38	.20652	95.788	192.9	14.057
#1	.00018	55.297	.00006	-.0026	.00071
#2	-.00001	55.458	.00001	.0169	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**.00436**	**1.2664**	**10.418**	**.00108**
Stddev	.00018	.00054	.0099	.070	.00079
%RSD	7.2581	12.447	.78344	.66721	73.198
#1	.00233	.00475	1.2734	10.467	.00164
#2	.00258	.00398	1.2594	10.369	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213074-C-1-A Acquired: 10/8/2023 17:58:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6224**	**.09755**	**.00304**	**9.8838**	**.00319**
Stddev	.0220	.00025	.00017	.0054	.00029
%RSD	.60836	.25437	5.6619	.05421	8.9677
#1	3.6380	.09772	.00292	9.8876	.00339
#2	3.6068	.09737	.00316	9.8801	.00299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.9050**	**.00257**	**22.756**	**-.00222**	**.00280**
Stddev	.0005	.00095	.090	.00076	.00213
%RSD	.0589	37.164	.39487	34.132	76.237
#1	.9054	.00189	22.819	-.00168	.00129
#2	.9047	.00324	22.692	-.00275	.00431
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5776**	**.00012**	**.13032**	**-.0266**	**.01079**
Stddev	.0294	.00026	.00016	.0171	.00016
%RSD	.52654	220.60	.12019	64.22	1.4819
#1	5.5983	-.00007	.13021	-.0145	.01090
#2	5.5568	.00031	.13043	-.0388	.01068
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213074-C-1-A Acquired: 10/8/2023 17:58:23 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.00397**	**.02109**	**.0119**
Stddev	.00063	.00013	.00010	.0001
%RSD	92.909	3.2263	.49713	.9157
#1	-.00023	.00406	.02102	.0118
#2	-.00112	.00388	.02116	.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13137.**	**12762.**	**74732.**	**5839.8**
Stddev	29.	34.	279.	18.5
%RSD	.21779	.26292	.37267	.31748
#1	13117.	12738.	74535.	5852.9
#2	13158.	12785.	74928.	5826.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.457%	100.95%	98.976%	97.284%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 18:02:01 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0111**	**48.529**	**.99128**	**1.0245**	**.99577**
Stddev	.0007	.170	.00694	.0005	.00177
%RSD	.07144	.35103	.69963	.05232	.17739
#1	1.0116	48.650	.99618	1.0241	.99702
#2	1.0106	48.409	.98637	1.0249	.99452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97141**	**48.250**	**.98941**	**.9412**	**.98336**
Stddev	.00240	.177	.00012	.0569	.00111
%RSD	.24681	.36733	.01198	6.044	.11258
#1	.97310	48.375	.98950	.9814	.98414
#2	.96971	48.124	.98933	.9010	.98257
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0197**	**.99007**	**47.989**	**47.383**	**.90789**
Stddev	.0012	.00058	.185	.006	.00373
%RSD	.11823	.05828	.38553	.01286	.41092
#1	1.0205	.98966	48.120	47.387	.91053
#2	1.0188	.99048	47.858	47.379	.90526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 18:02:01 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.270**	**.98850**	**1.0100**	**47.953**	**.98291**
Stddev	.075	.00188	.0003	.147	.00239
%RSD	.14844	.19063	.03250	.30747	.24280
#1	50.323	.98983	1.0098	48.057	.98460
#2	50.217	.98716	1.0103	47.849	.98122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**.98790**	**25.494**	**.98989**	**.98903**
Stddev	.01	.00200	.021	.00166	.00252
%RSD	.0320	.20269	.08129	.16790	.25529
#1	25.09	.98648	25.508	.99107	.99082
#2	25.08	.98932	25.479	.98872	.98725
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6236**	**.98644**	**.99471**	**.9681**	**.99770**
Stddev	.0383	.00076	.00081	.0031	.00371
%RSD	.39814	.07655	.08104	.3230	.37185
#1	9.6507	.98697	.99528	.9703	1.0003
#2	9.5965	.98590	.99414	.9659	.99508
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 18:02:01 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99582**	**1.0089**	**1.0198**	**.9912**
Stddev	.00191	.0002	.0001	.0005
%RSD	.19216	.02411	.00985	.0536
#1	.99717	1.0090	1.0199	.9916
#2	.99447	1.0087	1.0198	.9908
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11990.**	**12502.**	**72364.**	**5687.5**
Stddev	2.	2.	327.	3.3
%RSD	.01424	.01890	.45155	.05732
#1	11991.	12504.	72133.	5689.8
#2	11988.	12500.	72595.	5685.2

Sample Name: CCB-7506043 Acquired: 10/8/2023 18:05:35 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.01958**	**-.00065**	**.01681**	**-.00002**
Stddev	.00028	.03233	.00074	.00010	.00002
%RSD	80.237	165.10	113.25	.59386	91.031
#1	-.00015	.00328	-.00117	.01674	-.00001
#2	-.00054	-.04244	-.00013	.01688	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00931**	**-.00015**	**-.0505**	**-.00020**
Stddev	.00028	.00147	.00002	.0244	.00010
%RSD	382.65	15.760	16.683	48.31	50.929
#1	-.00013	-.01035	-.00013	-.0677	-.00028
#2	.00027	-.00827	-.00016	-.0332	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00297**	**-.00186**	**.14971**	**-.00328**
Stddev	.00043	.00016	.00328	.01426	.00241
%RSD	303.20	5.3367	176.55	9.5263	73.514
#1	.00044	-.00308	-.00417	.13963	-.00158
#2	-.00016	-.00286	.00046	.15980	-.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 18:05:35 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00004**	**.00023**	**.02860**	**-.00006**
Stddev	.00074	.00001	.00018	.00804	.00024
%RSD	113.85	29.984	77.897	28.104	400.78
#1	.00118	.00003	.00010	.02292	.00011
#2	.00013	.00005	.00035	.03428	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4173**	**-.00145**	**.02430**	**.00162**	**.00159**
Stddev	.0005	.00023	.00264	.00126	.00627
%RSD	.1148	15.714	10.845	77.803	395.49
#1	.4169	-.00161	.02617	.00251	-.00285
#2	.4176	-.00129	.02244	.00073	.00602
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.00004**	**-.00005**	**-.0247**	**.00024**
Stddev	.00288	.00024	.00011	.0071	.00010
%RSD	785.75	582.28	198.98	28.77	40.773
#1	-.00241	.00013	.00002	-.0297	.00031
#2	.00167	-.00021	-.00013	-.0197	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 18:05:35 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00095**	**-.00003**	**-.00025**	**.0118**
Stddev	.00021	.00024	.00017	.0013
%RSD	22.427	760.43	71.031	10.65
#1	-.00080	.00014	-.00037	.0109
#2	-.00110	-.00020	-.00012	.0127
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13650.**	**12838.**	**75913.**	**5825.1**
Stddev	43.	38.	163.	17.4
%RSD	.31856	.29636	.21431	.29934
#1	13681.	12865.	75798.	5812.8
#2	13620.	12811.	76028.	5837.4

Sample Name: CCVL-7610998 Acquired: 10/8/2023 18:09:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.20847**	**.01406**	F **.03451**	**.00214**
Stddev	.00022	.01860	.00092	.00026	.00002
%RSD	3.8023	8.9224	6.5673	.74506	.83099
#1	.00605	.19532	.01340	.03469	.00215
#2	.00573	.22162	.01471	.03433	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.50024**	**.00210**	**.0252**	**.00393**
Stddev	.00005	.00427	.00004	.0714	.00002
%RSD	2.3286	.85313	1.9280	283.8	.62223
#1	.00206	.50326	.00212	-.0253	.00391
#2	.00213	.49722	.00207	.0757	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	W **.00639**	**.05986**	**.60448**	**.02539**
Stddev	.00013	.00048	.00046	.01434	.00016
%RSD	3.0875	7.5916	.76759	2.3724	.63744
#1	.00431	.00673	.06018	.61462	.02550
#2	.00413	.00604	.05953	.59434	.02527
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-30.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 18:09:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20246**	F **.20592**	**.01053**	**1.0586**	**.00953**
Stddev	.00284	.00035	.00014	.0043	.00044
%RSD	1.4007	.16911	1.3602	.40709	4.6714
#1	.20045	.20567	.01043	1.0617	.00984
#2	.20447	.20617	.01063	1.0556	.00921
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4164**	**.00782**	F **.51188**	**.02018**	**.02401**
Stddev	.0014	.00067	.00069	.00024	.00164
%RSD	.3267	8.5822	.13532	1.1753	6.8494
#1	.4174	.00735	.51237	.02001	.02285
#2	.4154	.00830	.51139	.02035	.02517
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value	.0060		.20000		
Range	50.00%		50.000%		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47798**	**.00967**	**.00508**	F **-.0151**	**.00543**
Stddev	.00372	.00096	.00019	.0105	.00028
%RSD	.77929	9.9479	3.7628	69.70	5.1836
#1	.47534	.01035	.00522	-.0226	.00563
#2	.48061	.00899	.00495	-.0077	.00523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 18:09:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01963**	**.00473**	**.01040**	F **.0125**
Stddev	.00092	.00007	.00032	.0036
%RSD	4.6971	1.5495	3.0648	28.98
#1	.02028	.00467	.01018	.0099
#2	.01898	.00478	.01063	.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13571.**	**12850.**	**76028.**	**5767.0**
Stddev	6.	10.	199.	26.9
%RSD	.04212	.07951	.26212	.46559
#1	13567.	12857.	76169.	5786.0
#2	13575.	12843.	75887.	5748.0

Sample Name: MB 480-684506/1-A Acquired: 10/8/2023 18:12:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00642**	**-.00153**	**.01402**	**.00002**
Stddev	.00060	.02014	.00189	.00055	.00006
%RSD	349.83	313.74	123.57	3.8908	369.91
#1	-.00059	.00782	-.00019	.01440	.00006
#2	.00025	-.02066	-.00287	.01363	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00465**	**.00001**	**.0164**	**-.00001**
Stddev	.00018	.00105	.00009	.0205	.00021
%RSD	148.75	22.659	603.81	124.8	1474.1
#1	-.00001	.00390	-.00005	.0019	-.00016
#2	.00024	.00539	.00008	.0309	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**-.00352**	**.00634**	**.13142**	**-.00399**
Stddev	.00033	.00017	.00067	.04907	.00053
%RSD	39.191	4.8903	10.515	37.339	13.326
#1	.00106	-.00340	.00587	.16612	-.00362
#2	.00060	-.00364	.00681	.09672	-.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-684506/1-A Acquired: 10/8/2023 18:12:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00070**	**.00007**	**.02183**	**.00034**
Stddev	.00082	.00005	.00006	.01904	.00009
%RSD	249.96	6.5539	84.187	87.207	27.780
#1	-.00091	.00073	.00003	.00837	.00027
#2	.00025	.00067	.00011	.03529	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4189**	**-.00103**	**.03529**	**-.00208**	**.00053**
Stddev	.0003	.00098	.00029	.00106	.00247
%RSD	.0722	95.432	.81224	50.983	469.48
#1	.4192	-.00172	.03550	-.00133	.00227
#2	.4187	-.00033	.03509	-.00283	-.00122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02440**	**.00007**	**.00002**	**-.0342**	**.00077**
Stddev	.01510	.00021	.00010	.0155	.00031
%RSD	61.895	311.38	628.30	45.26	40.722
#1	-.01372	.00022	-.00005	-.0233	.00099
#2	-.03508	-.00008	.00009	-.0452	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-684506/1-A Acquired: 10/8/2023 18:12:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00000**	**.00209**	**.0122**
Stddev	.00066	.00024	.00020	.0019
%RSD	303.58	15181.	9.7439	15.82
#1	-.00025	.00017	.00223	.0135
#2	.00069	-.00017	.00194	.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13640.**	**12915.**	**76171.**	**5793.9**
Stddev	7.	1.	177.	62.1
%RSD	.05010	.00930	.23208	1.0718
#1	13645.	12914.	76046.	5749.9
#2	13635.	12916.	76296.	5837.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.19%	102.17%	100.88%	96.518%
Range				

Sample Name: LCS 480-684506/2-A Acquired: 10/8/2023 18:16:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05300**	**10.885**	**.22153**	F **.23592**	**.22751**
Stddev	.00019	.049	.00215	.00047	.00051
%RSD	.36643	.44758	.96968	.19805	.22362
#1	.05286	10.919	.22305	.23625	.22787
#2	.05313	10.851	.22001	.23558	.22715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22062**	**10.747**	**.22030**	**.0173**	**.21929**
Stddev	.00024	.021	.00033	.0116	.00008
%RSD	.10984	.19977	.14780	67.00	.03747
#1	.22045	10.732	.22053	.0255	.21935
#2	.22079	10.762	.22007	.0091	.21924
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22815**	**.21453**	**10.784**	**10.643**	**.19554**
Stddev	.00084	.00028	.014	.058	.00010
%RSD	.36983	.12893	.12891	.54883	.04928
#1	.22875	.21472	10.794	10.602	.19561
#2	.22756	.21433	10.774	10.685	.19547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-684506/2-A Acquired: 10/8/2023 18:16:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.966**	**.22419**	**.22927**	**10.694**	**.21236**
Stddev	.059	.00069	.00081	.011	.00039
%RSD	.53875	.30955	.35238	.10255	.18347
#1	11.008	.22468	.22984	10.702	.21209
#2	10.924	.22370	.22870	10.686	.21264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4149**	**.22158**	**11.475**	F **.24513**	**.21512**
Stddev	.0012	.00020	.022	.00504	.00075
%RSD	.2927	.08906	.19304	2.0567	.35075
#1	.4158	.22144	11.491	.24870	.21565
#2	.4141	.22172	11.459	.24157	.21459
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.515**	**.21549**	**.22521**	**-.0197**	**.22528**
Stddev	.026	.00026	.00037	.0093	.00053
%RSD	.25058	.11975	.16488	46.91	.23397
#1	10.496	.21531	.22547	-.0263	.22566
#2	10.533	.21568	.22495	-.0132	.22491
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-684506/2-A Acquired: 10/8/2023 18:16:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.22341**	**.22411**	**.21913**	**.0114**
Stddev	.00029	.00078	.00080	.0028
%RSD	.12865	.34829	.36387	24.66
#1	.22320	.22356	.21970	.0134
#2	.22361	.22466	.21857	.0094
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13004.**	**12783.**	**75017.**	**5793.3**
Stddev	7.	2.	306.	4.6
%RSD	.05415	.01236	.40803	.07947
#1	13009.	12784.	74801.	5796.5
#2	12999.	12782.	75234.	5790.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.470%	101.12%	99.354%	96.509%
Range				

Sample Name: LCSD 480-684506/3-A Acquired: 10/8/2023 18:20:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05372**	**11.039**	**.22351**	F **.23802**	F **.23158**
Stddev	.00037	.057	.00100	.00021	.00018
%RSD	.68648	.51264	.44675	.08655	.07638
#1	.05345	11.079	.22421	.23788	.23171
#2	.05398	10.999	.22280	.23817	.23146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit				.23000	.23000
Low Limit				.17000	.17000

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22338**	**10.885**	**.22316**	**.0250**	**.22205**
Stddev	.00041	.018	.00005	.0063	.00012
%RSD	.18167	.16973	.02144	25.02	.05300
#1	.22309	10.872	.22319	.0295	.22197
#2	.22366	10.898	.22312	.0206	.22213
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.23239**	**.21842**	**10.908**	**10.796**	**.19794**
Stddev	.00002	.00070	.015	.016	.00012
%RSD	.00810	.31870	.13626	.14701	.05960
#1	.23238	.21892	10.898	10.807	.19785
#2	.23241	.21793	10.919	10.785	.19802
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.23000				
Low Limit	.17000				

Sample Name: LCSD 480-684506/3-A Acquired: 10/8/2023 18:20:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.128**	**.22757**	F **.23233**	**10.975**	**.21510**
Stddev	.008	.00019	.00040	.007	.00017
%RSD	.06838	.08389	.17427	.05984	.07703
#1	11.123	.22743	.23262	10.980	.21521
#2	11.133	.22770	.23204	10.971	.21498
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.23000		
Low Limit			.17000		

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4136**	**.22436**	F **11.620**	F **.24562**	**.22175**
Stddev	.0021	.00010	.022	.00144	.00162
%RSD	.5043	.04267	.18686	.58793	.73229
#1	.4151	.22443	11.605	.24460	.22060
#2	.4121	.22429	11.636	.24664	.22289
Check ?	None	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit			11.500	.23000	
Low Limit			8.5000	.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.716**	**.21885**	**.22828**	**-.0244**	**.22881**
Stddev	.063	.00016	.00091	.0006	.00027
%RSD	.58626	.07255	.39996	2.584	.11944
#1	10.672	.21897	.22764	-.0248	.22862
#2	10.761	.21874	.22893	-.0239	.22900
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-684506/3-A Acquired: 10/8/2023 18:20:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.22886**	**.22749**	**.22089**	**.0116**
Stddev	.00102	.00004	.00052	.0016
%RSD	.44542	.01656	.23422	13.49
#1	.22959	.22752	.22053	.0105
#2	.22814	.22747	.22126	.0127
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12941.**	**12722.**	**74483.**	**5811.8**
Stddev	18.	22.	80.	33.4
%RSD	.13722	.17578	.10724	.57539
#1	12928.	12707.	74427.	5788.1
#2	12953.	12738.	74539.	5835.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.998%	100.65%	98.647%	96.817%
Range				

Sample Name: 480-212933-B-1-A Acquired: 10/8/2023 18:23:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.01820**	**.00105**	**.04073**	**.00761**
Stddev	.00071	.01584	.00119	.00060	.00002
%RSD	121.82	87.004	113.91	1.4783	.31341
#1	.00008	.02940	.00189	.04115	.00762
#2	.00108	.00700	.00020	.04030	.00759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**48.692**	**.00028**	**.0228**	**-.00008**
Stddev	.00011	.139	.00006	.0150	.00009
%RSD	86.410	.28639	21.782	66.01	122.37
#1	.00021	48.593	.00024	.0121	-.00001
#2	.00005	48.791	.00032	.0334	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.02028**	**.00870**	**1.3364**	**-.00310**
Stddev	.00005	.00014	.00096	.0446	.00054
%RSD	11.312	.69609	11.049	3.3380	17.271
#1	.00041	.02038	.00938	1.3049	-.00272
#2	.00048	.02018	.00802	1.3680	-.00348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-A Acquired: 10/8/2023 18:23:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0894**	**.00898**	**.00022**	**8.5969**	**.00063**
Stddev	.0364	.00002	.00010	.0104	.00005
%RSD	.71432	.22960	44.409	.12067	7.1717
#1	5.1152	.00900	.00015	8.6042	.00060
#2	5.0637	.00897	.00029	8.5895	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4193**	**.00172**	**6.2496**	**-.00047**	**.00391**
Stddev	.0041	.00065	.0023	.00001	.00090
%RSD	.9882	37.909	.03751	2.8286	23.099
#1	.4164	.00218	6.2513	-.00048	.00327
#2	.4222	.00126	6.2480	-.00046	.00454
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2636**	**-.00017**	**.11346**	**-.0233**	**.00051**
Stddev	.0564	.00039	.00020	.0128	.00002
%RSD	1.0711	230.31	.17873	54.87	4.3979
#1	5.3034	-.00044	.11361	-.0323	.00049
#2	5.2237	.00011	.11332	-.0142	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-A Acquired: 10/8/2023 18:23:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.00030**	**.02348**	**.0124**
Stddev	.00245	.00056	.00062	.0013
%RSD	319.77	185.86	2.6394	10.80
#1	.00096	-.00009	.02304	.0115
#2	-.00249	.00069	.02391	.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13104.**	**12731.**	**74861.**	**5825.1**
Stddev	39.	49.	152.	3.1
%RSD	.29664	.38334	.20277	.05318
#1	13077.	12697.	74753.	5827.3
#2	13132.	12766.	74968.	5822.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.213%	100.71%	99.147%	97.039%
Range				

Sample Name: 480-212933-B-1-Asd@5 Acquired: 10/8/2023 18:27:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.09089**	**.00098**	**.01865**	**.00268**
Stddev	.00013	.01167	.00017	.00032	.00005
%RSD	20.416	12.840	17.298	1.7225	1.8761
#1	.00074	.09914	.00086	.01842	.00264
#2	.00055	.08264	.00110	.01888	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**9.9999**	**.00006**	**.0089**	**-.00010**
Stddev	.00008	.0383	.00008	.0474	.00001
%RSD	47.475	.38311	130.84	530.2	14.353
#1	.00012	10.027	.00011	.0425	-.00011
#2	.00024	9.9728	.00000	-.0246	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00065**	**.00142**	**.39775**	**-.00212**
Stddev	.00050	.00134	.00151	.00184	.00037
%RSD	355.67	205.27	106.58	.46303	17.530
#1	.00050	.00030	.00035	.39906	-.00239
#2	-.00021	-.00160	.00248	.39645	-.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-Asd@5 Acquired: 10/8/2023 18:27:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0554**	**.00186**	**.00008**	**1.7340**	**.00009**
Stddev	.0012	.00001	.00001	.0108	.00024
%RSD	.11495	.59172	17.104	.62138	276.46
#1	1.0562	.00187	.00007	1.7416	.00025
#2	1.0545	.00186	.00009	1.7264	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4177**	**.00024**	**1.2506**	**.00130**	**-.00100**
Stddev	.0004	.00097	.0049	.00070	.00092
%RSD	.1002	401.96	.39406	54.403	92.307
#1	.4180	-.00044	1.2471	.00080	-.00165
#2	.4174	.00093	1.2541	.00179	-.00035
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0441**	**.00018**	**.02406**	**-.0232**	**.00013**
Stddev	.0092	.00039	.00009	.0087	.00053
%RSD	.88542	218.10	.38630	37.64	410.18
#1	1.0506	-.00010	.02413	-.0170	-.00024
#2	1.0375	.00046	.02400	-.0293	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-Asd@5 Acquired: 10/8/2023 18:27:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00037**	**.00480**	**.0109**
Stddev	.00014	.00042	.00021	.0017
%RSD	24.909	113.94	4.3473	15.84
#1	-.00047	.00007	.00495	.0122
#2	-.00066	.00067	.00466	.0097
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13584.**	**12875.**	**75601.**	**5852.6**
Stddev	20.	26.	355.	38.0
%RSD	.14503	.19997	.46929	.64885
#1	13598.	12893.	75350.	5825.7
#2	13570.	12857.	75852.	5879.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.77%	101.85%	100.13%	97.497%
Range				

Sample Name: 480-212933-B-1-APDS Acquired: 10/8/2023 18:31:02 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04689**	**10.064**	**.21296**	**.24730**	**.21752**
Stddev	.00034	.002	.00108	.00102	.00076
%RSD	.72557	.02184	.50657	.41333	.35120
#1	.04665	10.066	.21220	.24802	.21698
#2	.04713	10.063	.21373	.24658	.21806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21183**	**57.023**	**.21071**	**-.0638**	**.20871**
Stddev	.00046	.087	.00007	.0037	.00022
%RSD	.21798	.15211	.03530	5.860	.10442
#1	.21150	56.961	.21066	-.0612	.20856
#2	.21216	57.084	.21076	-.0665	.20886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21711**	**.22733**	**10.210**	**11.085**	**.18045**
Stddev	.00094	.00005	.044	.014	.00144
%RSD	.43073	.02419	.43172	.12323	.79550
#1	.21645	.22729	10.179	11.075	.17943
#2	.21777	.22737	10.241	11.094	.18146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-APDS Acquired: 10/8/2023 18:31:02 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.131**	**.21940**	**.21735**	**18.077**	**.20325**
Stddev	.043	.00081	.00034	.014	.00012
%RSD	.28621	.37083	.15449	.07685	.05682
#1	15.100	.21998	.21759	18.067	.20333
#2	15.161	.21882	.21712	18.087	.20317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4138**	**.21351**	**16.722**	**.23151**	**.20641**
Stddev	.0012	.00150	.006	.00196	.00157
%RSD	.2998	.70329	.03514	.84648	.76103
#1	.4147	.21457	16.718	.23012	.20530
#2	.4129	.21245	16.727	.23290	.20752
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.083**	**.20205**	**.31743**	**-.0163**	**.21510**
Stddev	.053	.00068	.00110	.0158	.00015
%RSD	.34984	.33853	.34580	97.09	.06806
#1	15.046	.20253	.31666	-.0051	.21500
#2	15.121	.20156	.31821	-.0274	.21520
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-APDS Acquired: 10/8/2023 18:31:02 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21356**	**.21393**	**.22952**	**.0128**
Stddev	.00163	.00033	.00022	.0002
%RSD	.76286	.15538	.09419	1.791
#1	.21471	.21417	.22967	.0129
#2	.21241	.21370	.22936	.0126
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12681.**	**12701.**	**74072.**	**5793.8**
Stddev	6.	14.	194.	62.0
%RSD	.05085	.11000	.26251	1.0697
#1	12676.	12692.	73935.	5837.7
#2	12686.	12711.	74210.	5750.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.071%	100.48%	98.102%	96.518%
Range				

Sample Name: 480-212933-B-1-B MS Acquired: 10/8/2023 18:34:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05520**	**11.799**	**.22957**	**.27382**	**.24638**
Stddev	.00043	.036	.00547	.00527	.00027
%RSD	.78108	.30896	2.3841	1.9237	.11045
#1	.05550	11.825	.23344	.27755	.24658
#2	.05489	11.774	.22570	.27010	.24619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23342**	**66.326**	**.22778**	**.0295**	**.22893**
Stddev	.00130	.298	.00406	.0002	.00404
%RSD	.55905	.44882	1.7820	.8435	1.7625
#1	.23434	66.537	.23065	.0297	.23179
#2	.23250	66.116	.22491	.0293	.22608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24020**	**.25186**	**11.212**	**12.519**	**.20678**
Stddev	.00064	.00084	.017	.027	.00092
%RSD	.26699	.33299	.15370	.21624	.44574
#1	.24066	.25245	11.224	12.538	.20612
#2	.23975	.25127	11.200	12.500	.20743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-B MS Acquired: 10/8/2023 18:34:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.065**	**.24267**	**.23694**	**20.831**	**.22140**
Stddev	.013	.00070	.00452	.128	.00496
%RSD	.07558	.28642	1.9077	.61241	2.2393
#1	17.056	.24316	.24014	20.922	.22491
#2	17.074	.24218	.23374	20.741	.21790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4157**	**.23294**	**18.842**	**.25349**	**.22494**
Stddev	.0006	.00289	.334	.00406	.00121
%RSD	.1383	1.2416	1.7717	1.6028	.53865
#1	.4153	.23498	19.078	.25637	.22580
#2	.4161	.23089	18.606	.25062	.22408
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.049**	**.22399**	**.36123**	**-.0141**	**.23814**
Stddev	.104	.00476	.00091	.0251	.00052
%RSD	.61288	2.1263	.25207	178.1	.21789
#1	17.122	.22736	.36187	-.0318	.23777
#2	16.975	.22063	.36058	.0037	.23850
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-B MS Acquired: 10/8/2023 18:34:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.23285**	**.23588**	**.26319**	**.0125**
Stddev	.00255	.00011	.00050	.0010
%RSD	1.0931	.04482	.19032	8.369
#1	.23465	.23580	.26284	.0133
#2	.23105	.23595	.26355	.0118
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12521.**	**12630.**	**73354.**	**5744.5**
Stddev	160.	158.	8.	82.6
%RSD	1.2807	1.2479	.01080	1.4386
#1	12407.	12519.	73348.	5686.0
#2	12634.	12742.	73359.	5802.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.883%	99.917%	97.151%	95.696%
Range				

Sample Name: 480-212933-B-1-C MSD Acquired: 10/8/2023 18:38:07 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05697**	**11.596**	**.23904**	**.28428**	**.25327**
Stddev	.00071	.118	.00072	.00016	.00092
%RSD	1.2488	1.0197	.29956	.05544	.36286
#1	.05748	11.680	.23854	.28439	.25392
#2	.05647	11.513	.23955	.28417	.25262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23637**	**67.141**	**.23595**	**-.0145**	**.23655**
Stddev	.00314	.895	.00033	.0056	.00018
%RSD	1.3291	1.3336	.13895	38.80	.07679
#1	.23859	67.774	.23572	-.0105	.23642
#2	.23415	66.508	.23618	-.0184	.23668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24463**	**.25591**	**11.446**	**12.904**	**.21170**
Stddev	.00035	.00010	.066	.092	.00057
%RSD	.14383	.03956	.57747	.71093	.26715
#1	.24488	.25598	11.493	12.969	.21130
#2	.24438	.25584	11.400	12.839	.21210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-C MSD Acquired: 10/8/2023 18:38:07 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.388**	**.24799**	**.24627**	**21.009**	**.23013**
Stddev	.028	.00032	.00016	.347	.00059
%RSD	.16146	.12780	.06507	1.6530	.25828
#1	17.408	.24776	.24616	21.255	.23055
#2	17.368	.24821	.24638	20.764	.22971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4130**	**.24057**	**19.556**	**.26087**	**.23122**
Stddev	.0008	.00016	.017	.00132	.00085
%RSD	.1854	.06823	.08780	.50760	.36855
#1	.4125	.24068	19.544	.26181	.23062
#2	.4136	.24045	19.568	.25994	.23182
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.540**	**.23643**	**.36861**	**-.0247**	**.24255**
Stddev	.089	.00023	.00459	.0164	.00043
%RSD	.50824	.09518	1.2445	66.36	.17901
#1	17.603	.23627	.37186	-.0131	.24224
#2	17.477	.23659	.36537	-.0363	.24286
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212933-B-1-C MSD Acquired: 10/8/2023 18:38:07 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.24039**	**.24168**	**.25780**	**.0109**
Stddev	.00012	.00029	.00046	.0025
%RSD	.05146	.12087	.17980	22.87
#1	.24030	.24188	.25813	.0092
#2	.24047	.24147	.25747	.0127
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12466.**	**12569.**	**73440.**	**5821.7**
Stddev	12.	17.	.	91.1
%RSD	.09707	.13482	.00056	1.5646
#1	12458.	12557.	73439.	5757.3
#2	12475.	12581.	73440.	5886.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.477%	99.430%	97.265%	96.982%
Range				

Sample Name: 480-212953-D-1-A Acquired: 10/8/2023 18:41:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00042**	**-.00032**	**.01071**	**.00360**
Stddev	.00062	.01863	.00037	.00021	.00001
%RSD	1338.0	4434.9	115.67	1.9563	.22720
#1	.00049	.01360	-.00058	.01086	.00360
#2	-.00039	-.01275	-.00006	.01056	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**2.3220**	**.00030**	**.0206**	**.00015**
Stddev	.00006	.0161	.00006	.0231	.00001
%RSD	941.76	.69338	20.562	111.9	8.8443
#1	-.00004	2.3106	.00034	.0370	.00016
#2	.00005	2.3333	.00025	.0043	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00158**	**1.9201**	**1.4668**	**.00548**
Stddev	.00003	.00040	.0008	.0380	.00236
%RSD	6.4670	25.612	.04440	2.5933	43.078
#1	.00038	-.00187	1.9207	1.4399	.00381
#2	.00042	-.00129	1.9195	1.4937	.00715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-1-A Acquired: 10/8/2023 18:41:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3839**	**.07980**	**.00021**	**8.2607**	**.00499**
Stddev	.0092	.00023	.00009	.0183	.00022
%RSD	.27244	.29283	42.353	.22202	4.5088
#1	3.3904	.07997	.00015	8.2478	.00483
#2	3.3773	.07964	.00028	8.2737	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4305**	**.00266**	**1.2600**	**.00027**	**-.00089**
Stddev	.0007	.00058	.0043	.00088	.00076
%RSD	.1534	21.718	.34122	328.12	84.788
#1	.4300	.00225	1.2631	-.00035	-.00036
#2	.4310	.00306	1.2570	.00089	-.00143
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.707**	**-.00003**	**.03873**	**-.0159**	**-.00017**
Stddev	.061	.00033	.00054	.0140	.00015
%RSD	.52173	1219.4	1.3842	87.99	85.624
#1	11.663	.00020	.03911	-.0060	-.00028
#2	11.750	-.00026	.03835	-.0258	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-1-A Acquired: 10/8/2023 18:41:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00005**	**.01247**	**.0122**
Stddev	.00022	.00024	.00022	.0012
%RSD	38.896	472.39	1.7449	10.01
#1	-.00041	-.00022	.01232	.0131
#2	-.00072	.00012	.01262	.0114
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13425.**	**12862.**	**75901.**	**5763.6**
Stddev	1.	1.	278.	45.5
%RSD	.01006	.01122	.36575	.79003
#1	13426.	12861.	75704.	5795.8
#2	13425.	12863.	76097.	5731.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.594%	101.75%	100.52%	96.014%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 18:45:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0230**	**48.251**	**.99596**	**1.0184**	**.99044**
Stddev	.0036	.423	.00089	.0004	.00770
%RSD	.35245	.87570	.08941	.04315	.77728
#1	1.0205	48.550	.99659	1.0181	.99589
#2	1.0256	47.953	.99533	1.0187	.98500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96017**	**47.918**	**.99298**	**.9658**	**.98546**
Stddev	.00622	.307	.00135	.0012	.00077
%RSD	.64775	.64159	.13619	.1217	.07763
#1	.96456	48.136	.99394	.9650	.98492
#2	.95577	47.701	.99202	.9667	.98601
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0291**	**.99093**	**47.956**	**47.106**	**.90098**
Stddev	.0001	.00263	.187	.447	.00038
%RSD	.01083	.26501	.39067	.94977	.04176
#1	1.0290	.98907	48.089	47.422	.90125
#2	1.0292	.99279	47.824	46.789	.90071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 18:45:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.682**	**.98480**	**1.0154**	**47.588**	**.98308**
Stddev	.007	.00066	.0005	.330	.00012
%RSD	.01434	.06736	.05320	.69312	.01174
#1	50.677	.98433	1.0158	47.821	.98300
#2	50.687	.98527	1.0150	47.354	.98316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.23**	**.99380**	**25.577**	**.99479**	**.98980**
Stddev	.01	.00192	.024	.00108	.00417
%RSD	.0395	.19300	.09538	.10859	.42085
#1	25.23	.99244	25.559	.99556	.99275
#2	25.24	.99516	25.594	.99403	.98686
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6410**	**.98778**	**.99016**	**.9882**	**1.0035**
Stddev	.0047	.00094	.00854	.0188	.0013
%RSD	.04895	.09558	.86253	1.904	.12833
#1	9.6377	.98711	.99620	1.002	1.0026
#2	9.6444	.98845	.98412	.9749	1.0044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 18:45:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99605**	**1.0148**	**1.0280**	**.9871**
Stddev	.00127	.0018	.0008	.0004
%RSD	.12794	.17784	.08232	.0438
#1	.99515	1.0135	1.0274	.9868
#2	.99695	1.0160	1.0286	.9874
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12012.**	**12520.**	**72323.**	**5727.5**
Stddev	9.	4.	82.	76.3
%RSD	.07435	.03326	.11346	1.3315
#1	12019.	12517.	72381.	5673.6
#2	12006.	12523.	72265.	5781.5

Sample Name: CCB-7506043 Acquired: 10/8/2023 18:48:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.02096**	**-.00045**	**.00590**	**.00003**
Stddev	.00037	.01533	.00211	.00048	.00005
%RSD	48.342	73.169	466.78	8.2106	199.22
#1	.00102	.01011	.00104	.00556	-.00001
#2	.00050	.03180	-.00194	.00625	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00639**	**.00012**	**.0018**	**-.00009**
Stddev	.00002	.00163	.00001	.0042	.00003
%RSD	25.948	25.546	5.9695	230.6	29.550
#1	.00010	-.00524	.00012	-.0011	-.00007
#2	.00007	-.00755	.00013	.0048	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00555**	**-.00009**	**.12568**	**-.00136**
Stddev	.00021	.00052	.00041	.01301	.00082
%RSD	645.94	9.4515	458.45	10.353	60.326
#1	-.00012	-.00592	.00020	.11648	-.00193
#2	.00018	-.00518	-.00038	.13488	-.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 18:48:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00001**	**.00006**	**-.03352**	**.00033**
Stddev	.00056	.00000	.00022	.00198	.00013
%RSD	46.220	62.657	364.82	5.9085	40.428
#1	.00161	.00001	-.00009	-.03212	.00042
#2	.00082	.00000	.00021	-.03493	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4179**	**-.00062**	**.00775**	**-.00029**	**.00070**
Stddev	.0014	.00126	.00135	.00061	.00161
%RSD	.3428	202.86	17.371	207.68	230.98
#1	.4189	.00027	.00679	.00014	.00183
#2	.4169	-.00152	.00870	-.00072	-.00044
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02184**	**-.00039**	**.00004**	**-.0241**	**-.00008**
Stddev	.01164	.00012	.00005	.0014	.00069
%RSD	53.320	31.595	139.48	5.983	859.64
#1	-.01361	-.00048	.00007	-.0230	-.00057
#2	-.03007	-.00030	.00000	-.0251	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 18:48:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00006**	**.00011**	**.0122**
Stddev	.00040	.00010	.00010	.0006
%RSD	1537.9	157.11	93.795	5.216
#1	.00026	.00013	.00004	.0126
#2	-.00031	-.00001	.00018	.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13715.**	**12884.**	**76426.**	**5807.9**
Stddev	70.	48.	167.	14.0
%RSD	.50802	.37529	.21835	.24167
#1	13765.	12918.	76544.	5817.9
#2	13666.	12850.	76308.	5798.0

Sample Name: CCVL-7610998 Acquired: 10/8/2023 18:52:36 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00654**	**.18344**	**.01336**	**.02507**	**.00211**
Stddev	.00029	.02152	.00243	.00028	.00001
%RSD	4.4352	11.730	18.154	1.1180	.57564
#1	.00633	.19866	.01165	.02526	.00212
#2	.00674	.16823	.01508	.02487	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.49877**	**.00216**	**.0009**	**.00373**
Stddev	.00015	.00690	.00002	.0329	.00009
%RSD	7.4617	1.3843	1.1421	3787.	2.5209
#1	.00215	.49389	.00218	.0242	.00380
#2	.00193	.50365	.00214	-.0224	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	W **.00623**	**.05163**	**.55467**	**.02340**
Stddev	.00033	.00069	.00568	.02480	.00150
%RSD	7.4686	11.077	10.996	4.4712	6.4054
#1	.00418	.00671	.05564	.53713	.02446
#2	.00465	.00574	.04761	.57221	.02234
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-30.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 18:52:36 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20482**	**.00313**	**.01069**	**.97537**	**.00958**
Stddev	.00330	.00009	.00014	.01221	.00018
%RSD	1.6106	2.9719	1.2634	1.2521	1.9142
#1	.20715	.00307	.01079	.96673	.00971
#2	.20248	.00320	.01060	.98400	.00945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4179**	**.00904**	**.22060**	**.02100**	**.02165**
Stddev	.0019	.00067	.00231	.00080	.00199
%RSD	.4550	7.3986	1.0485	3.8234	9.1857
#1	.4165	.00856	.22224	.02157	.02024
#2	.4192	.00951	.21897	.02043	.02305
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44692**	**.00970**	**.00501**	F **-.0263**	**.00544**
Stddev	.00833	.00002	.00001	.0204	.00024
%RSD	1.8641	.22273	.19232	77.55	4.4598
#1	.44102	.00972	.00500	-.0407	.00561
#2	.45281	.00969	.00502	-.0119	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 18:52:36 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01953**	**.00510**	**.01042**	F **.0134**
Stddev	.00115	.00019	.00004	.0009
%RSD	5.8707	3.8153	.35707	6.598
#1	.01871	.00497	.01039	.0128
#2	.02034	.00524	.01045	.0141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13545.**	**12840.**	**75808.**	**5772.5**
Stddev	29.	28.	218.	49.7
%RSD	.21475	.21955	.28798	.86070
#1	13525.	12820.	75653.	5807.6
#2	13566.	12860.	75962.	5737.4

Sample Name: 480-212953-D-2-A Acquired: 10/8/2023 18:56:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**-.01015**	**-.00016**	**.00722**	**.00006**
Stddev	.00009	.00554	.00127	.00026	.00004
%RSD	11.388	54.560	781.55	3.6673	67.843
#1	.00072	-.00623	.00074	.00703	.00008
#2	.00084	-.01407	-.00106	.00740	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.16761**	**.00025**	**-.0224**	**-.00012**
Stddev	.00018	.00191	.00002	.0246	.00000
%RSD	82.118	1.1415	6.0690	110.0	.47405
#1	.00009	.16626	.00024	-.0398	-.00012
#2	.00034	.16896	.00026	-.0050	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00518**	**.00613**	**.12813**	**-.00341**
Stddev	.00009	.00048	.00363	.06133	.00182
%RSD	18.870	9.3079	59.159	47.865	53.434
#1	.00041	-.00484	.00357	.08476	-.00471
#2	.00053	-.00552	.00870	.17149	-.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-2-A Acquired: 10/8/2023 18:56:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00248**	**.00015**	**.00011**	**.01863**	**.00004**
Stddev	.00513	.00000	.00004	.00474	.00003
%RSD	207.04	.99949	31.983	25.419	87.763
#1	.00611	.00015	.00009	.01528	.00006
#2	-.00115	.00015	.00014	.02198	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4155**	**-.00135**	**.02528**	**.00064**	**-.00052**
Stddev	.0004	.00095	.00117	.00124	.00239
%RSD	.0933	70.427	4.6451	193.98	457.44
#1	.4157	-.00068	.02611	-.00024	-.00221
#2	.4152	-.00203	.02445	.00152	.00117
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08791**	**-.00061**	**.00016**	**-.0257**	**.00018**
Stddev	.00761	.00023	.00002	.0113	.00023
%RSD	8.6556	36.698	13.457	43.99	126.00
#1	.08253	-.00077	.00015	-.0337	.00035
#2	.09329	-.00046	.00018	-.0177	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-2-A Acquired: 10/8/2023 18:56:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00220**	**-.00001**	**.00139**	**.0131**
Stddev	.00041	.00032	.00016	.0006
%RSD	18.619	6244.7	11.216	4.277
#1	-.00191	.00022	.00128	.0127
#2	-.00248	-.00023	.00150	.0135
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13804.**	**13074.**	**75546.**	**5837.1**
Stddev	28.	11.	1899.	45.8
%RSD	.19977	.08528	2.5131	.78416
#1	13784.	13066.	74203.	5804.8
#2	13823.	13082.	76888.	5869.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.40%	103.42%	100.05%	97.239%
Range				

Sample Name: 480-212953-D-3-A Acquired: 10/8/2023 18:59:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.04694**	**-.00106**	**.00821**	**.00359**
Stddev	.00062	.00690	.00034	.00035	.00001
%RSD	123.44	14.701	32.369	4.2502	.22996
#1	-.00093	.04206	-.00082	.00846	.00358
#2	-.00006	.05182	-.00130	.00796	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**2.3566**	**.00012**	**-.0385**	**.00013**
Stddev	.00007	.0040	.00004	.0041	.00010
%RSD	52.923	.17023	29.591	10.70	82.038
#1	.00009	2.3595	.00010	-.0356	.00005
#2	.00019	2.3538	.00015	-.0414	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00263**	**1.9331**	**1.4649**	**.00520**
Stddev	.00009	.00118	.0035	.0713	.00483
%RSD	144.49	44.604	.18097	4.8697	92.841
#1	.00013	-.00180	1.9356	1.5154	.00179
#2	-.00000	-.00347	1.9307	1.4145	.00861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-3-A Acquired: 10/8/2023 18:59:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4316**	**.07996**	**.00031**	**8.3176**	**.00506**
Stddev	.0258	.00036	.00018	.0938	.00020
%RSD	.75127	.44935	59.097	1.1281	4.0070
#1	3.4133	.07970	.00044	8.3839	.00521
#2	3.4498	.08021	.00018	8.2512	.00492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4309**	**.00051**	**1.2582**	**.00072**	**.00093**
Stddev	.0026	.00055	.0011	.00020	.00135
%RSD	.5966	107.77	.08472	27.380	144.41
#1	.4327	.00090	1.2574	.00058	.00189
#2	.4291	.00012	1.2590	.00086	-.00002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.754**	**.00038**	**.03902**	**-.0164**	**.00012**
Stddev	.041	.00022	.00023	.0036	.00034
%RSD	.34484	59.514	.57936	22.09	269.84
#1	11.783	.00022	.03918	-.0138	.00036
#2	11.726	.00053	.03886	-.0190	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-3-A Acquired: 10/8/2023 18:59:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.00023**	**.01625**	**.0106**
Stddev	.00038	.00035	.00010	.0010
%RSD	32.296	154.83	.61631	9.622
#1	-.00145	-.00002	.01618	.0113
#2	-.00091	.00047	.01632	.0099
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13500.**	**12940.**	**76174.**	**5773.5**
Stddev	17.	14.	86.	18.0
%RSD	.12267	.10866	.11238	.31194
#1	13488.	12930.	76234.	5760.7
#2	13511.	12950.	76113.	5786.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.14%	102.36%	100.89%	96.178%
Range				

Sample Name: 480-212953-D-4-A Acquired: 10/8/2023 19:03:37 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00032**	**-.00118**	**.01234**	**.03569**
Stddev	.00053	.01134	.00117	.00036	.00000
%RSD	112.92	3590.2	98.919	2.8986	.00986
#1	.00009	.00770	-.00035	.01259	.03569
#2	.00084	-.00833	-.00201	.01209	.03568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**3.4326**	**.00019**	**-.0039**	**-.00006**
Stddev	.00004	.0081	.00007	.0413	.00020
%RSD	28.102	.23742	35.855	1049.	351.36
#1	.00015	3.4384	.00024	-.0331	-.00020
#2	.00010	3.4269	.00014	.0252	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.00583**	**.01593**	**1.8491**	**-.00060**
Stddev	.00032	.00037	.00113	.0040	.00206
%RSD	76.574	6.4129	7.1236	.21918	344.48
#1	.00065	-.00609	.01674	1.8520	-.00205
#2	.00019	-.00556	.01513	1.8462	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-4-A Acquired: 10/8/2023 19:03:37 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3764**	**.00776**	**.00012**	**12.420**	**.00297**
Stddev	.0006	.00011	.00008	.025	.00020
%RSD	.04404	1.3688	66.994	.20400	6.7274
#1	1.3769	.00768	.00007	12.438	.00311
#2	1.3760	.00783	.00018	12.402	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4191**	**.00047**	**4.2697**	**.00029**	**-.00034**
Stddev	.0005	.00027	.0081	.00209	.00513
%RSD	.1178	57.892	.19033	713.38	1492.4
#1	.4188	.00066	4.2640	-.00118	.00329
#2	.4195	.00028	4.2755	.00177	-.00397
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4644**	**-.00002**	**.04302**	**-.0232**	**.00002**
Stddev	.0353	.00018	.00004	.0112	.00010
%RSD	.64571	972.92	.09681	48.38	457.44
#1	5.4395	.00011	.04299	-.0311	.00009
#2	5.4894	-.00015	.04305	-.0152	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-4-A Acquired: 10/8/2023 19:03:37 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00008**	**.01063**	**.0119**
Stddev	.00003	.00012	.00032	.0037
%RSD	13.553	159.77	3.0549	30.84
#1	.00021	.00001	.01040	.0093
#2	.00025	-.00016	.01086	.0145
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13616.**	**12995.**	**76702.**	**5898.9**
Stddev	40.	26.	386.	28.4
%RSD	.29072	.19897	.50333	.48206
#1	13588.	12976.	76429.	5878.8
#2	13644.	13013.	76975.	5919.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.01%	102.80%	101.59%	98.268%
Range				

Sample Name: 480-212953-D-5-A Acquired: 10/8/2023 19:07:15 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.05226**	**.00735**	**.52848**	**.15887**
Stddev	.00012	.00856	.00021	.00572	.00004
%RSD	5.7193	16.371	2.8742	1.0817	.02680
#1	.00219	.05831	.00720	.53253	.15890
#2	.00202	.04621	.00750	.52444	.15884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**52.286**	**.00035**	**-.0698**	**.80801**
Stddev	.00006	.039	.00010	.0104	.00645
%RSD	33.735	.07477	29.247	14.88	.79834
#1	.00013	52.313	.00043	-.0625	.81257
#2	.00022	52.258	.00028	-.0772	.80345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**-.00213**	**28.637**	**12.265**	**.01784**
Stddev	.00015	.00019	.023	.037	.00126
%RSD	17.271	8.7596	.08190	.30117	7.0613
#1	-.00094	-.00200	28.654	12.291	.01695
#2	-.00074	-.00226	28.620	12.239	.01873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-5-A Acquired: 10/8/2023 19:07:15 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.878**	**23.811**	**-.00168**	**131.31**	**.10832**
Stddev	.122	.220	.00012	.79	.00132
%RSD	.45442	.92275	7.3106	.60318	1.2163
#1	26.964	23.967	-.00177	131.87	.10926
#2	26.792	23.656	-.00159	130.75	.10739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4193**	**.00705**	**46.435**	**.00546**	**.00743**
Stddev	.0029	.00011	.471	.00199	.00405
%RSD	.6887	1.5900	1.0151	36.410	54.479
#1	.4172	.00713	46.768	.00405	.00457
#2	.4213	.00698	46.102	.00686	.01029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8678**	**-.00028**	**.17591**	**-.0130**	**.00060**
Stddev	.0117	.00037	.00032	.0008	.00012
%RSD	.24119	135.00	.18018	6.153	19.820
#1	4.8595	-.00054	.17613	-.0125	.00052
#2	4.8761	-.00001	.17568	-.0136	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-5-A Acquired: 10/8/2023 19:07:15 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00839**	**.00018**	**.00352**	**.0100**
Stddev	.00048	.00015	.00014	.0023
%RSD	5.7817	82.272	3.8648	22.76
#1	-.00804	.00008	.00362	.0084
#2	-.00873	.00029	.00342	.0116
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12173.**	**12484.**	**73031.**	**5756.5**
Stddev	66.	73.	536.	6.0
%RSD	.54041	.58260	.73461	.10483
#1	12126.	12432.	72652.	5760.8
#2	12219.	12535.	73411.	5752.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.303%	98.757%	96.724%	95.897%
Range				

Sample Name: 480-212953-D-6-A Acquired: 10/8/2023 19:10:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.59218**	**.00016**	**.01870**	**.01554**
Stddev	.00040	.00436	.00025	.00036	.00000
%RSD	23.222	.73571	158.52	1.9449	.01967
#1	.00142	.58910	.00033	.01896	.01554
#2	.00198	.59526	-.00002	.01844	.01554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**18.742**	**.00093**	**.0102**	**.07891**
Stddev	.00002	.096	.00020	.0155	.00008
%RSD	3.2702	.51297	21.807	151.7	.09907
#1	.00073	18.810	.00078	.0212	.07886
#2	.00069	18.674	.00107	-.0007	.07897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00040**	**.08114**	**2.6943**	**.00182**
Stddev	.00059	.00126	.00150	.0182	.00088
%RSD	491.67	314.86	1.8474	.67390	48.181
#1	-.00054	.00129	.08220	2.7072	.00120
#2	.00030	-.00049	.08008	2.6815	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-6-A Acquired: 10/8/2023 19:10:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.145**	**14.232**	**-.00096**	**14.123**	**.06036**
Stddev	.008	.083	.00000	.065	.00076
%RSD	.02240	.58396	.23801	.46025	1.2535
#1	35.139	14.291	-.00097	14.169	.05983
#2	35.150	14.173	-.00096	14.077	.06090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4182**	**.00302**	**78.367**	**-.00178**	**.00625**
Stddev	.0001	.00233	.041	.00056	.00009
%RSD	.0175	77.340	.05256	31.398	1.4232
#1	.4182	.00467	78.396	-.00217	.00619
#2	.4183	.00137	78.338	-.00138	.00631
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1567**	**-.00019**	**.08705**	**-.0234**	**.00051**
Stddev	.0041	.00090	.00004	.0168	.00001
%RSD	.05043	476.44	.04739	71.59	2.2804
#1	8.1596	.00045	.08708	-.0116	.00050
#2	8.1537	-.00082	.08702	-.0353	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-6-A Acquired: 10/8/2023 19:10:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00714**	**-.00018**	**.06497**	**.0087**
Stddev	.00115	.00044	.00021	.0047
%RSD	16.090	245.85	.32403	53.29
#1	-.00795	.00013	.06512	.0120
#2	-.00633	-.00049	.06482	.0055
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13082.**	**12775.**	**75271.**	**5823.3**
Stddev	26.	10.	236.	10.2
%RSD	.20111	.07963	.31419	.17486
#1	13101.	12783.	75104.	5816.1
#2	13064.	12768.	75438.	5830.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.049%	101.06%	99.690%	97.009%
Range				

Sample Name: 480-212953-D-7-A Acquired: 10/8/2023 19:14:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.06544**	**.00009**	**.04287**	**.03086**
Stddev	.00086	.04803	.00033	.00060	.00007
%RSD	130.09	73.399	389.22	1.4024	.23181
#1	.00005	.09940	-.00015	.04330	.03091
#2	.00128	.03148	.00032	.04245	.03081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**50.807**	**.00016**	**.0112**	**-.00034**
Stddev	.00001	.177	.00002	.0360	.00016
%RSD	4.4402	.34901	12.972	319.8	45.835
#1	.00031	50.932	.00017	-.0142	-.00045
#2	.00033	50.682	.00014	.0367	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00485**	**47.884**	**3.8387**	**.02546**
Stddev	.00058	.00071	.211	.0407	.00309
%RSD	131.16	14.626	.44013	1.0601	12.136
#1	-.00085	-.00435	47.735	3.8675	.02764
#2	-.00003	-.00535	48.033	3.8100	.02327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-7-A Acquired: 10/8/2023 19:14:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.891**	**6.4956**	**-.00095**	**18.454**	**.00185**
Stddev	.103	.0391	.00012	.046	.00003
%RSD	.21119	.60254	13.014	.24923	1.8370
#1	48.964	6.5233	-.00086	18.487	.00188
#2	48.818	6.4680	-.00104	18.422	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5816**	**.00716**	**78.837**	**.01119**	**.00121**
Stddev	.0011	.00104	.068	.00008	.00230
%RSD	.1866	14.590	.08686	.74895	189.69
#1	.5824	.00642	78.788	.01113	.00284
#2	.5808	.00790	78.885	.01125	-.00041
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0011**	**-.00085**	**.24738**	**.0270**	**.00045**
Stddev	.0250	.00050	.00093	.0034	.00010
%RSD	.27759	59.303	.37716	12.55	22.669
#1	9.0188	-.00120	.24804	.0294	.00052
#2	8.9835	-.00049	.24673	.0246	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-7-A Acquired: 10/8/2023 19:14:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00302**	**.00036**	**.00809**	**.0149**
Stddev	.00060	.00005	.00003	.0035
%RSD	19.927	14.923	.39205	23.36
#1	-.00344	.00032	.00806	.0173
#2	-.00259	.00040	.00811	.0124
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12521.**	**12471.**	**73764.**	**5767.2**
Stddev	16.	12.	14.	27.9
%RSD	.12830	.09415	.01928	.48308
#1	12509.	12462.	73754.	5747.5
#2	12532.	12479.	73774.	5786.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.883%	98.652%	97.695%	96.074%
Range				

Sample Name: 480-212953-D-8-A Acquired: 10/8/2023 19:18:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.03331**	**-.00067**	**.00568**	**.01468**
Stddev	.00028	.00479	.00018	.00024	.00001
%RSD	45.855	14.381	26.310	4.2905	.09149
#1	.00041	.03669	-.00079	.00586	.01467
#2	.00080	.02992	-.00054	.00551	.01469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**4.5359**	**.00012**	**-.0089**	**-.00026**
Stddev	.00006	.0112	.00014	.0127	.00014
%RSD	62.130	.24782	114.64	141.9	53.518
#1	.00013	4.5279	.00021	.0000	-.00036
#2	.00005	4.5438	.00002	-.0179	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00245**	**.02237**	**1.2834**	**-.00131**
Stddev	.00019	.00067	.00273	.0139	.00004
%RSD	38.095	27.256	12.226	1.0809	3.2355
#1	.00037	-.00198	.02430	1.2735	-.00128
#2	.00064	-.00292	.02044	1.2932	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-8-A Acquired: 10/8/2023 19:18:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8408**	**.00753**	**-.00006**	**5.3731**	**.00253**
Stddev	.0140	.00003	.00001	.0398	.00026
%RSD	.49414	.34793	17.618	.74077	10.207
#1	2.8309	.00755	-.00005	5.4012	.00234
#2	2.8507	.00751	-.00007	5.3449	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4188**	**.00120**	**5.3750**	**.00065**	**-.00007**
Stddev	.0017	.00054	.0130	.00063	.00057
%RSD	.3997	44.650	.24200	95.812	774.81
#1	.4176	.00082	5.3658	.00021	.00033
#2	.4200	.00158	5.3842	.00110	-.00048
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5143**	**.00003**	**.02097**	**-.0110**	**.00020**
Stddev	.0533	.00000	.00002	.0088	.00008
%RSD	.56007	10.649	.09817	79.48	42.101
#1	9.5520	.00003	.02099	-.0172	.00025
#2	9.4767	.00003	.02096	-.0048	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-8-A Acquired: 10/8/2023 19:18:20 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00109**	**.00030**	**.00849**	**.0117**
Stddev	.00130	.00029	.00022	.0020
%RSD	119.63	96.970	2.5789	16.72
#1	-.00017	.00050	.00864	.0131
#2	-.00201	.00009	.00833	.0103
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13557.**	**12920.**	**76315.**	**5828.1**
Stddev	5.	8.	50.	24.0
%RSD	.03479	.06092	.06574	.41196
#1	13560.	12926.	76350.	5845.0
#2	13553.	12915.	76279.	5811.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.57%	102.21%	101.07%	97.088%
Range				

Sample Name: 480-212953-D-9-A Acquired: 10/8/2023 19:22:00 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.10534**	**-.00056**	**.01470**	**.09097**
Stddev	.00041	.01728	.00052	.00004	.00040
%RSD	89.664	16.401	92.554	.26277	.44026
#1	.00074	.11755	-.00019	.01467	.09068
#2	.00017	.09312	-.00092	.01473	.09125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**12.244**	**.00022**	**-.0138**	**.00298**
Stddev	.00010	.097	.00000	.0082	.00021
%RSD	533.82	.79008	.88659	59.53	7.1725
#1	.00005	12.312	.00022	-.0196	.00283
#2	-.00009	12.175	.00022	-.0080	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00217**	**24.105**	**5.8004**	**.01637**
Stddev	.00025	.00117	.091	.0241	.00013
%RSD	6947.4	53.780	.37636	.41573	.79968
#1	.00018	.00135	24.169	5.8174	.01627
#2	-.00017	.00300	24.041	5.7833	.01646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-9-A Acquired: 10/8/2023 19:22:00 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.221**	**2.5462**	**.00107**	**18.297**	**.00020**
Stddev	.046	.0254	.00002	.108	.00017
%RSD	.37888	.99554	2.0733	.58949	83.529
#1	12.188	2.5283	.00108	18.373	.00008
#2	12.254	2.5641	.00105	18.220	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.7951**	**.00622**	**1.1114**	**.00580**	**.00298**
Stddev	.0070	.00033	.0101	.00032	.00605
%RSD	.8860	5.3845	.90867	5.4650	202.88
#1	.7901	.00598	1.1042	.00603	-.00130
#2	.8000	.00645	1.1185	.00558	.00726
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.278**	**-.00034**	**.06733**	**-.0289**	**-.00009**
Stddev	.100	.00058	.00053	.0094	.00070
%RSD	.49273	173.62	.78604	32.36	773.51
#1	20.349	-.00075	.06770	-.0355	.00040
#2	20.207	.00008	.06695	-.0223	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-9-A Acquired: 10/8/2023 19:22:00 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00236**	**.00047**	**.02085**	**.0110**
Stddev	.00105	.00019	.00057	.0016
%RSD	44.388	41.473	2.7392	14.74
#1	-.00310	.00033	.02045	.0121
#2	-.00162	.00061	.02125	.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12962.**	**12739.**	**74646.**	**5826.5**
Stddev	62.	61.	213.	65.2
%RSD	.48149	.47804	.28550	1.1189
#1	13006.	12782.	74797.	5780.4
#2	12918.	12696.	74496.	5872.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.154%	100.77%	98.863%	97.062%
Range				

Sample Name: 480-212953-D-10-A Acquired: 10/8/2023 19:25:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.15034**	**-.00166**	**.01644**	**.01065**
Stddev	.00007	.02110	.00022	.00011	.00009
%RSD	6.6353	14.034	12.958	.67858	.80485
#1	.00107	.13542	-.00181	.01652	.01059
#2	.00118	.16526	-.00151	.01637	.01071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**4.2728**	**.00011**	**.0151**	**-.00019**
Stddev	.00004	.0124	.00009	.0230	.00008
%RSD	18.084	.28982	77.347	152.3	42.815
#1	.00027	4.2815	.00005	-.0012	-.00013
#2	.00021	4.2640	.00018	.0313	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00076**	**.10714**	**1.5359**	**.01233**
Stddev	.00010	.00040	.00507	.0004	.00144
%RSD	17.974	53.207	4.7297	.02897	11.712
#1	.00064	.00047	.10356	1.5356	.01336
#2	.00049	.00104	.11072	1.5362	.01131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-10-A Acquired: 10/8/2023 19:25:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5625**	**.01100**	**.00024**	**24.744**	**.00442**
Stddev	.0154	.00010	.00000	.052	.00028
%RSD	.27703	.88639	.31923	.20881	6.3979
#1	5.5516	.01093	.00024	24.781	.00422
#2	5.5734	.01106	.00024	24.708	.00462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4225**	**.00235**	**8.1872**	**-.00054**	**-.00210**
Stddev	.0023	.00021	.0079	.00133	.00020
%RSD	.5538	8.7495	.09625	245.89	9.3878
#1	.4209	.00249	8.1928	.00040	-.00224
#2	.4242	.00220	8.1817	-.00149	-.00196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.466**	**.00014**	**.01922**	**-.0090**	**-.00003**
Stddev	.001	.00004	.00019	.0213	.00001
%RSD	.00762	28.412	.99309	236.9	30.090
#1	13.467	.00011	.01908	-.0240	-.00002
#2	13.466	.00017	.01935	.0061	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-10-A Acquired: 10/8/2023 19:25:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00171**	**.00016**	**.02647**	**.0125**
Stddev	.00121	.00012	.00012	.0040
%RSD	70.881	76.346	.44128	31.93
#1	-.00257	.00007	.02639	.0153
#2	-.00085	.00025	.02655	.0096
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13097.**	**12695.**	**75195.**	**5800.3**
Stddev	19.	12.	266.	12.4
%RSD	.14532	.09410	.35397	.21358
#1	13110.	12703.	75006.	5809.1
#2	13083.	12686.	75383.	5791.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.154%	100.43%	99.589%	96.626%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 19:29:21 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0157**	**48.307**	**.99392**	**1.0127**	**.99137**
Stddev	.0025	.018	.00124	.0005	.00068
%RSD	.24656	.03668	.12482	.04864	.06838
#1	1.0175	48.294	.99479	1.0130	.99089
#2	1.0140	48.319	.99304	1.0123	.99185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95701**	**47.973**	**.99075**	**.9210**	**.98118**
Stddev	.00189	.064	.00067	.0366	.00057
%RSD	.19783	.13322	.06721	3.977	.05853
#1	.95835	48.019	.99028	.8951	.98078
#2	.95567	47.928	.99122	.9469	.98159
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0254**	**.98509**	**48.033**	**47.181**	F **.89721**
Stddev	.0030	.00004	.057	.171	.00187
%RSD	.29450	.00357	.11959	.36142	.20892
#1	1.0276	.98507	48.073	47.301	.89589
#2	1.0233	.98512	47.992	47.060	.89854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/8/2023 19:29:21 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.380**	**.97812**	**1.0141**	**47.536**	**.97909**
Stddev	.059	.00068	.0007	.094	.00162
%RSD	.11749	.06982	.07071	.19855	.16541
#1	50.422	.97861	1.0136	47.603	.97794
#2	50.338	.97764	1.0146	47.469	.98023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.21**	**.98747**	**25.541**	**.99254**	**.98372**
Stddev	.02	.00116	.000	.00210	.00220
%RSD	.0812	.11731	.00176	.21151	.22336
#1	25.20	.98829	25.541	.99403	.98527
#2	25.23	.98665	25.541	.99106	.98216
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5676**	**.98410**	**.99234**	**.9608**	**.99901**
Stddev	.0311	.00005	.00005	.0251	.00390
%RSD	.32503	.00482	.00533	2.612	.38991
#1	9.5456	.98413	.99230	.9431	1.0018
#2	9.5896	.98406	.99237	.9786	.99625
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 19:29:21 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99133**	**1.0111**	**1.0231**	**.9910**
Stddev	.00109	.0012	.0012	.0054
%RSD	.10949	.11563	.11502	.5489
#1	.99056	1.0119	1.0239	.9872
#2	.99209	1.0103	1.0223	.9949
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12050.**	**12557.**	**72887.**	**5742.5**
Stddev	9.	2.	29.	13.9
%RSD	.07780	.01557	.04045	.24180
#1	12057.	12558.	72908.	5752.4
#2	12044.	12555.	72866.	5732.7

Sample Name: CCB-7506043 Acquired: 10/8/2023 19:32:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.01093**	**-.00082**	**.00216**	**.00002**
Stddev	.00085	.02251	.00137	.00061	.00000
%RSD	503.77	205.94	167.35	28.320	9.6498
#1	.00043	.02684	.00015	.00260	.00002
#2	-.00077	-.00499	-.00178	.00173	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00760**	**.00008**	**.0017**	**-.00013**
Stddev	.00002	.00397	.00005	.0556	.00007
%RSD	17.702	52.263	65.088	3241.	52.848
#1	.00009	-.00479	.00012	.0410	-.00008
#2	.00011	-.01041	.00004	-.0376	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00393**	**-.00093**	**.07345**	**-.00241**
Stddev	.00029	.00051	.00060	.00818	.00156
%RSD	150.85	12.939	64.893	11.143	65.028
#1	-.00039	-.00429	-.00136	.06766	-.00130
#2	.00001	-.00357	-.00050	.07924	-.00351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 19:32:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00000**	**-.00002**	**-.01620**	**.00015**
Stddev	.00262	.00003	.00011	.00943	.00003
%RSD	499.54	1848.9	670.68	58.192	22.729
#1	-.00238	-.00002	.00006	-.00954	.00018
#2	.00133	.00002	-.00009	-.02287	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4198**	**-.00117**	**.00832**	**-.00134**	**.00139**
Stddev	.0014	.00047	.00046	.00109	.00347
%RSD	.3384	39.937	5.5576	81.836	248.52
#1	.4188	-.00084	.00864	-.00056	-.00106
#2	.4208	-.00150	.00799	-.00211	.00384
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02196**	**-.00008**	**.00006**	**-.0299**	**.00029**
Stddev	.00284	.00005	.00005	.0159	.00009
%RSD	12.917	59.571	90.111	53.34	29.901
#1	-.02396	-.00012	.00002	-.0186	.00023
#2	-.01995	-.00005	.00009	-.0412	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 19:32:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00016**	**-.00023**	**.0126**
Stddev	.00007	.00012	.00001	.0019
%RSD	6.0067	72.491	4.7287	15.37
#1	-.00119	.00025	-.00024	.0112
#2	-.00130	.00008	-.00022	.0140
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13771.**	**12922.**	**76049.**	**5781.6**
Stddev	6.	11.	220.	12.2
%RSD	.04350	.08454	.28934	.21086
#1	13776.	12929.	76204.	5773.0
#2	13767.	12914.	75893.	5790.2

Sample Name: CCVL-7610998 Acquired: 10/8/2023 19:36:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00689**	**.20270**	**.01472**	**.02209**	**.00210**
Stddev	.00019	.03177	.00065	.00017	.00002
%RSD	2.6984	15.674	4.4290	.78995	.74775
#1	.00676	.22516	.01426	.02197	.00211
#2	.00702	.18023	.01519	.02221	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**.49995**	**.00220**	**-.0186**	**.00366**
Stddev	.00010	.00528	.00005	.0046	.00009
%RSD	4.9724	1.0563	2.1578	24.87	2.5102
#1	.00201	.49622	.00224	-.0219	.00372
#2	.00188	.50369	.00217	-.0153	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00438**	F **.00460**	**.05242**	**.56277**	**.02497**
Stddev	.00040	.00063	.00265	.02466	.00232
%RSD	9.2004	13.711	5.0581	4.3812	9.3052
#1	.00410	.00416	.05429	.54533	.02662
#2	.00467	.00505	.05054	.58020	.02333
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 19:36:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20324**	**.00304**	**.01092**	**.95349**	**.00943**
Stddev	.00185	.00000	.00020	.01539	.00051
%RSD	.91041	.08901	1.8262	1.6145	5.3740
#1	.20455	.00304	.01077	.94261	.00979
#2	.20193	.00304	.01106	.96438	.00907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4163**	**.00868**	**.22059**	**.02065**	**.02438**
Stddev	.0015	.00019	.00001	.00141	.00111
%RSD	.3663	2.1736	.00538	6.8096	4.5590
#1	.4152	.00855	.22058	.01966	.02517
#2	.4173	.00882	.22060	.02165	.02360
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46716**	**.00985**	**.00502**	F **-.0175**	**.00508**
Stddev	.00393	.00012	.00019	.0140	.00054
%RSD	.84085	1.2351	3.7205	80.23	10.540
#1	.46994	.00994	.00515	-.0076	.00471
#2	.46438	.00977	.00489	-.0274	.00546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 19:36:41 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01845**	**.00515**	**.01003**	F **.0091**
Stddev	.00039	.00018	.00031	.0023
%RSD	2.1270	3.4537	3.0746	25.03
#1	.01817	.00502	.00981	.0107
#2	.01873	.00527	.01025	.0075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13549.**	**12826.**	**75968.**	**5780.3**
Stddev	11.	5.	33.	.0
%RSD	.08287	.04140	.04314	.00017
#1	13556.	12830.	75991.	5780.3
#2	13541.	12823.	75945.	5780.3

Sample Name: 480-212953-D-11-A Acquired: 10/8/2023 19:40:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.07031**	**-.00000**	**.00932**	**.01052**
Stddev	.00061	.02160	.00074	.00036	.00004
%RSD	123.94	30.721	17884.	3.8103	.34943
#1	.00006	.05504	-.00053	.00907	.01055
#2	.00092	.08559	.00052	.00957	.01049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**6.4019**	**.00048**	**-.0653**	**.00085**
Stddev	.00004	.0035	.00002	.0061	.00011
%RSD	22.731	.05491	3.7220	9.293	12.564
#1	.00019	6.3994	.00047	-.0610	.00077
#2	.00014	6.4044	.00049	-.0696	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00284**	**.00893**	**1.9510**	**.00085**
Stddev	.00042	.00006	.00191	.0382	.00035
%RSD	206.86	1.9436	21.405	1.9592	41.607
#1	-.00009	-.00281	.00758	1.9240	.00060
#2	.00050	-.00288	.01028	1.9780	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-11-A Acquired: 10/8/2023 19:40:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6180**	**.70587**	**-.00002**	**10.011**	**.02665**
Stddev	.0061	.00111	.00001	.045	.00033
%RSD	.09279	.15781	52.676	.45116	1.2555
#1	6.6223	.70666	-.00003	10.043	.02689
#2	6.6136	.70508	-.00001	9.9788	.02642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4146**	**.00073**	**3.5199**	**.00175**	**-.00344**
Stddev	.0004	.00080	.0105	.00066	.00230
%RSD	.0988	109.37	.29798	37.617	66.824
#1	.4149	.00017	3.5273	.00129	-.00181
#2	.4143	.00130	3.5125	.00222	-.00507
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.577**	**-.00025**	**.03386**	**-.0399**	**.00038**
Stddev	.043	.00043	.00001	.0013	.00027
%RSD	.40648	173.46	.03884	3.160	71.283
#1	10.547	-.00055	.03387	-.0390	.00019
#2	10.607	.00006	.03385	-.0408	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-11-A Acquired: 10/8/2023 19:40:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00162**	**.00001**	**.02497**	**.0118**
Stddev	.00050	.00012	.00019	.0011
%RSD	30.661	2176.4	.77659	9.337
#1	-.00127	-.00008	.02510	.0126
#2	-.00197	.00009	.02483	.0110
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13325.**	**12790.**	**75709.**	**5806.0**
Stddev	28.	27.	86.	35.1
%RSD	.21058	.20947	.11360	.60497
#1	13344.	12809.	75770.	5781.2
#2	13305.	12771.	75648.	5830.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.846%	101.18%	100.27%	96.721%
Range				

Sample Name: 480-212953-D-12-A Acquired: 10/8/2023 19:43:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.08337**	**-.00037**	**.03174**	**.12410**
Stddev	.00001	.02661	.00078	.00016	.00016
%RSD	1.0502	31.918	209.92	.48912	.12764
#1	.00093	.06456	.00018	.03163	.12421
#2	.00095	.10219	-.00092	.03185	.12398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**39.529**	**.00034**	**-.0085**	**.03418**
Stddev	.00001	.076	.00001	.0433	.00011
%RSD	2.8637	.19296	2.1516	509.0	.31317
#1	.00046	39.583	.00034	-.0391	.03411
#2	.00044	39.475	.00033	.0221	.03426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00454**	**19.158**	**3.4044**	**.02034**
Stddev	.00011	.00078	.050	.0739	.00093
%RSD	831.01	17.165	.26347	2.1703	4.5839
#1	.00006	-.00399	19.122	3.3522	.01968
#2	-.00009	-.00510	19.193	3.4567	.02100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-12-A Acquired: 10/8/2023 19:43:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.665**	**5.0050**	**-.00051**	**8.2374**	**.06544**
Stddev	.077	.0455	.00035	.0098	.00001
%RSD	.24958	.90898	68.469	.11958	.01442
#1	30.719	5.0372	-.00026	8.2304	.06544
#2	30.611	4.9728	-.00076	8.2443	.06543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5219**	**.00511**	**81.354**	**.00359**	**.00297**
Stddev	.0009	.00036	.115	.00175	.00133
%RSD	.1782	7.1008	.14155	48.862	44.794
#1	.5225	.00537	81.272	.00235	.00203
#2	.5212	.00485	81.435	.00483	.00391
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6603**	**-.00057**	**.25023**	**-.0037**	**.00018**
Stddev	.0064	.00066	.00032	.0099	.00001
%RSD	.06629	116.56	.12975	268.1	8.1522
#1	9.6648	-.00010	.25000	-.0107	.00017
#2	9.6558	-.00103	.25046	.0033	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-12-A Acquired: 10/8/2023 19:43:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00335**	**.00027**	**.07233**	**.0135**
Stddev	.00075	.00001	.00005	.0006
%RSD	22.269	3.7136	.06239	4.620
#1	-.00282	.00026	.07230	.0139
#2	-.00388	.00027	.07236	.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12923.**	**12577.**	**74517.**	**5798.8**
Stddev	8.	6.	238.	53.8
%RSD	.05850	.05090	.31907	.92853
#1	12928.	12581.	74349.	5836.8
#2	12918.	12572.	74685.	5760.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.867%	99.493%	98.692%	96.600%
Range				

Sample Name: 480-212953-D-13-A Acquired: 10/8/2023 19:47:41 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**.03835**	**.00016**	**.00672**	**.00281**
Stddev	.00091	.01818	.00233	.00024	.00000
%RSD	83.877	47.401	1495.2	3.5296	.08199
#1	.00044	.02550	.00181	.00689	.00281
#2	.00173	.05121	-.00149	.00655	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**2.3799**	**.00021**	**-.0384**	**.00018**
Stddev	.00011	.0065	.00004	.0053	.00030
%RSD	148.71	.27426	20.899	13.92	166.79
#1	.00015	2.3845	.00018	-.0346	-.00003
#2	-.00000	2.3753	.00025	-.0422	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00468**	**1.0805**	**1.2773**	**.00345**
Stddev	.00016	.00031	.0046	.0357	.00157
%RSD	39.684	6.6595	.42736	2.7950	45.440
#1	.00030	-.00490	1.0837	1.2520	.00456
#2	.00053	-.00446	1.0772	1.3025	.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-13-A Acquired: 10/8/2023 19:47:41 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1927**	**.08403**	**.00025**	**13.317**	**.00304**
Stddev	.0174	.00042	.00022	.081	.00003
%RSD	.54593	.50448	90.515	.60450	.94203
#1	3.2050	.08433	.00009	13.374	.00302
#2	3.1803	.08373	.00041	13.260	.00306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4403**	**.00184**	**2.1651**	**-.00103**	**-.00043**
Stddev	.0011	.00067	.0009	.00029	.00067
%RSD	.2512	36.278	.04095	28.316	155.67
#1	.4395	.00231	2.1657	-.00083	-.00091
#2	.4410	.00137	2.1645	-.00124	.00004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2489**	**.00096**	**.01444**	**-.0159**	**.00065**
Stddev	.0618	.00050	.00030	.0099	.00031
%RSD	.66836	51.446	2.0434	62.34	48.175
#1	9.2926	.00131	.01423	-.0230	.00087
#2	9.2052	.00061	.01465	-.0089	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212953-D-13-A Acquired: 10/8/2023 19:47:41 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.00030**	**.01283**	**.0118**
Stddev	.00047	.00004	.00010	.0004
%RSD	35.181	13.849	.79272	3.457
#1	-.00099	.00033	.01276	.0121
#2	-.00165	.00027	.01290	.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13349.**	**12800.**	**75499.**	**5783.7**
Stddev	20.	24.	6.	.2
%RSD	.14977	.19112	.00850	.00297
#1	13335.	12783.	75503.	5783.6
#2	13363.	12818.	75494.	5783.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.024%	101.26%	99.992%	96.350%
Range				

Sample Name: rinse Acquired: 10/8/2023 19:51:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00423**	**-.00003**	**.00150**	**-.00000**
Stddev	.00059	.00917	.00037	.00005	.00001
%RSD	117.74	216.62	1163.5	3.6529	143.83
#1	.00092	.00225	.00023	.00154	.00000
#2	.00008	-.01071	-.00029	.00146	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00498**	**-.00009**	**.0245**	**-.00020**
Stddev	.00007	.00332	.00004	.0248	.00007
%RSD	79.553	66.572	40.210	101.4	34.226
#1	.00015	-.00264	-.00007	.0069	-.00025
#2	.00004	-.00733	-.00012	.0420	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00554**	**-.00016**	**.14242**	**-.00423**
Stddev	.00007	.00029	.00193	.06726	.00072
%RSD	44.654	5.2858	1189.6	47.228	16.980
#1	-.00010	-.00575	.00120	.09486	-.00473
#2	-.00020	-.00534	-.00153	.18998	-.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 19:51:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00143**	**-.00004**	**.00012**	**-.02065**	**-.00009**
Stddev	.00023	.00008	.00007	.00918	.00010
%RSD	16.183	211.80	61.366	44.450	116.89
#1	-.00126	.00002	.00017	-.02714	-.00001
#2	-.00159	-.00009	.00007	-.01416	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4175**	**-.00107**	**.00551**	**-.00068**	**.00110**
Stddev	.0018	.00013	.00063	.00281	.00499
%RSD	.4304	11.825	11.430	412.01	452.51
#1	.4162	-.00098	.00507	-.00267	-.00243
#2	.4187	-.00116	.00596	.00131	.00463
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02192**	**-.00005**	**.00005**	**-.0135**	**.00065**
Stddev	.00937	.00021	.00003	.0015	.00007
%RSD	42.750	391.99	57.373	10.90	11.399
#1	-.01530	.00009	.00008	-.0125	.00059
#2	-.02855	-.00020	.00003	-.0145	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 19:51:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00012**	**-.00022**	**.0144**
Stddev	.00078	.00004	.00012	.0024
%RSD	108.75	36.847	55.794	16.93
#1	-.00016	.00015	-.00030	.0127
#2	-.00126	.00009	-.00013	.0162
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13793.**	**12937.**	**75904.**	**5837.4**
Stddev	5.	5.	345.	16.9
%RSD	.03533	.04008	.45490	.29034
#1	13789.	12933.	75660.	5849.3
#2	13796.	12941.	76149.	5825.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.32%	102.34%	100.53%	97.243%
Range				

Sample Name: MB 480-685639/1-A Acquired: 10/8/2023 19:55:03 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.04263**	**.00002**	**.00142**	**.00020**
Stddev	.00030	.00053	.00197	.00041	.00000
%RSD	59.264	1.2497	11118.	28.545	2.4013
#1	.00030	.04226	.00141	.00171	.00020
#2	.00073	.04301	-.00138	.00113	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.04434**	**.00012**	**.0126**	**-.00022**
Stddev	.00001	.00777	.00011	.0221	.00011
%RSD	4.4012	17.528	92.325	175.2	49.603
#1	.00014	.04983	.00004	-.0030	-.00015
#2	.00015	.03884	.00020	.0283	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	F **-.00425**	F **.09583**	**.11760**	**.00013**
Stddev	.00021	.00017	.00092	.04498	.00019
%RSD	610.86	4.0767	.96085	38.245	151.75
#1	.00019	-.00438	.09518	.14941	.00026
#2	-.00012	-.00413	.09649	.08580	-.00001
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		.01000	.05000		
Low Limit		-.00400	-.04000		

Sample Name: MB 480-685639/1-A Acquired: 10/8/2023 19:55:03 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00885**	**.00045**	**.00001**	**-.00685**	**.00024**
Stddev	.00351	.00001	.00002	.01754	.00032
%RSD	39.616	1.8039	123.44	256.14	130.66
#1	.01133	.00046	.00003	.00556	.00047
#2	.00637	.00044	.00000	-.01925	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4303**	**-.00106**	**-.01670**	**-.00115**	**-.00261**
Stddev	.0005	.00097	.00146	.00022	.00059
%RSD	.1248	91.988	8.7488	19.422	22.495
#1	.4307	-.00174	-.01773	-.00100	-.00219
#2	.4299	-.00037	-.01567	-.00131	-.00302
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01208**	**-.00051**	**.00010**	**-.0111**	**.00032**
Stddev	.01356	.00065	.00023	.0021	.00014
%RSD	112.21	128.50	230.17	18.94	42.765
#1	-.02167	-.00097	.00027	-.0096	.00022
#2	-.00250	-.00005	-.00006	-.0126	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685639/1-A Acquired: 10/8/2023 19:55:03 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.00040**	**.00132**	**.0084**
Stddev	.00039	.00022	.00018	.0030
%RSD	33.979	55.917	13.474	35.94
#1	-.00087	.00024	.00144	.0105
#2	-.00142	.00056	.00119	.0062
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13736.**	**12963.**	**76627.**	**5859.4**
Stddev	19.	21.	228.	2.9
%RSD	.14174	.16124	.29742	.04986
#1	13722.	12948.	76466.	5861.4
#2	13750.	12977.	76789.	5857.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.90%	102.55%	101.49%	97.610%
Range				

Sample Name: LCS 480-685639/2-A Acquired: 10/8/2023 19:58:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04908**	**10.171**	**.20608**	**.20973**	**.21243**
Stddev	.00023	.069	.00087	.00015	.00028
%RSD	.47459	.68283	.42266	.07017	.13375
#1	.04891	10.220	.20669	.20963	.21223
#2	.04924	10.122	.20546	.20983	.21263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20648**	**10.099**	**.20756**	**-.0339**	**.20603**
Stddev	.00196	.089	.00015	.0068	.00036
%RSD	.94725	.88021	.07271	20.01	.17497
#1	.20787	10.162	.20767	-.0387	.20578
#2	.20510	10.036	.20746	-.0291	.20629
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21545**	**.20123**	**10.126**	**10.016**	**.18193**
Stddev	.00001	.00002	.055	.118	.00341
%RSD	.00304	.00931	.54664	1.1743	1.8768
#1	.21544	.20124	10.165	10.099	.18434
#2	.21545	.20122	10.087	9.9327	.17951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685639/2-A Acquired: 10/8/2023 19:58:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.317**	**.20921**	**.21627**	**9.9919**	**.19858**
Stddev	.018	.00022	.00003	.1098	.00004
%RSD	.17057	.10474	.01357	1.0985	.02212
#1	10.305	.20906	.21629	10.069	.19855
#2	10.329	.20937	.21625	9.9143	.19861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4185**	**.20793**	**10.714**	F **.23060**	**.20256**
Stddev	.0025	.00085	.003	.00142	.00565
%RSD	.5986	.41091	.03123	.61686	2.7911
#1	.4203	.20733	10.716	.23161	.19856
#2	.4167	.20854	10.711	.22960	.20656
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8442**	**.19849**	**.21085**	**-.0229**	**.21184**
Stddev	.1353	.00070	.00119	.0183	.00024
%RSD	1.3744	.35166	.56376	79.97	.11204
#1	9.9398	.19800	.21169	-.0359	.21201
#2	9.7485	.19898	.21001	-.0100	.21167
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685639/2-A Acquired: 10/8/2023 19:58:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21198**	**.21088**	**.20633**	**.0120**
Stddev	.00087	.00022	.00047	.0060
%RSD	.41011	.10665	.22751	50.31
#1	.21259	.21103	.20666	.0163
#2	.21136	.21072	.20600	.0077
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13165.**	**12892.**	**75845.**	**5828.8**
Stddev	17.	29.	164.	32.5
%RSD	.12941	.22129	.21657	.55674
#1	13153.	12872.	75961.	5805.8
#2	13177.	12913.	75729.	5851.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.664%	101.99%	100.45%	97.100%
Range				

Sample Name: 480-213174-F-1-B Acquired: 10/8/2023 20:02:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.07643**	**.00403**	**.25311**	**.10788**
Stddev	.00017	.00844	.00116	.00059	.00010
%RSD	329.35	11.041	28.867	.23208	.08903
#1	.00017	.08240	.00321	.25270	.10795
#2	-.00007	.07047	.00485	.25353	.10781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**447.94**	**.00005**	**.0138**	**.00041**
Stddev	.00008	1.52	.00011	.0204	.00014
%RSD	46.551	.33869	198.89	147.5	32.715
#1	.00024	449.01	-.00002	.0282	.00051
#2	.00012	446.87	.00013	-.0006	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**-.00020**	**18.733**	**19.163**	**-.00381**
Stddev	.00021	.00022	.127	.081	.00139
%RSD	4.7327	113.61	.67528	.42448	36.555
#1	.00433	-.00036	18.823	19.221	-.00283
#2	.00463	-.00004	18.644	19.106	-.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-B Acquired: 10/8/2023 20:02:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.024**	**5.1116**	**.00045**	**315.27**	**.00456**
Stddev	.029	.0801	.00015	1.13	.00023
%RSD	.05633	1.5679	32.475	.35748	5.0752
#1	52.045	5.1683	.00055	316.06	.00440
#2	52.003	5.0550	.00034	314.47	.00472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.044**	**.00737**	F **384.84**	**-.00541**	**-.00107**
Stddev	.001	.00022	.81	.00035	.00390
%RSD	.0724	2.9536	.21014	6.5321	363.63
#1	1.043	.00722	384.27	-.00566	.00168
#2	1.044	.00752	385.41	-.00516	-.00383
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2714**	**-.00066**	**.72281**	**-.0121**	**.00340**
Stddev	.0664	.00127	.00340	.0015	.00022
%RSD	.71568	193.26	.47060	12.10	6.4985
#1	9.3183	-.00156	.72522	-.0132	.00324
#2	9.2245	.00024	.72041	-.0111	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-B Acquired: 10/8/2023 20:02:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00000**	**.00985**	**.0134**
Stddev	.00141	.00027	.00039	.0004
%RSD	188.15	6799.9	3.9242	3.142
#1	-.00175	-.00019	.01012	.0131
#2	.00025	.00020	.00958	.0137
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11151.**	**11787.**	**69634.**	**5801.0**
Stddev	48.	46.	123.	42.5
%RSD	.42631	.38617	.17598	.73324
#1	11185.	11819.	69547.	5771.0
#2	11117.	11754.	69721.	5831.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.722%	93.241%	92.225%	96.638%
Range				

Sample Name: 480-213174-F-1-Bsd@5 Acquired: 10/8/2023 20:06:04 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.03049**	**.00143**	**.05271**	**.02229**
Stddev	.00005	.01119	.00105	.00040	.00003
%RSD	8.7053	36.690	73.430	.76539	.13163
#1	.00064	.03840	.00218	.05300	.02227
#2	.00056	.02258	.00069	.05243	.02231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**95.432**	**.00013**	**.0019**	**.00013**
Stddev	.00013	.078	.00005	.0357	.00020
%RSD	188.03	.08224	38.586	1858.	150.40
#1	.00017	95.376	.00010	-.0233	.00027
#2	-.00002	95.487	.00017	.0271	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**-.00353**	**3.9785**	**3.8146**	**-.00399**
Stddev	.00051	.00038	.0056	.0329	.00045
%RSD	40.388	10.890	.14208	.86342	11.286
#1	.00090	-.00380	3.9745	3.8379	-.00367
#2	.00162	-.00326	3.9825	3.7913	-.00430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-Bsd@5 Acquired: 10/8/2023 20:06:04 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.931**	**1.0741**	**.00022**	**65.245**	**.00065**
Stddev	.048	.0004	.00025	.147	.00009
%RSD	.43726	.03479	115.57	.22571	14.267
#1	10.964	1.0744	.00004	65.349	.00072
#2	10.897	1.0738	.00040	65.140	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5411**	**.00031**	**76.859**	**.00030**	**.00065**
Stddev	.0010	.00037	.039	.00061	.00093
%RSD	.1844	119.02	.05082	204.16	143.61
#1	.5404	.00005	76.887	-.00013	-.00001
#2	.5418	.00057	76.831	.00073	.00130
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8692**	**-.00031**	**.15156**	**-.0144**	**.00048**
Stddev	.0176	.00027	.00010	.0095	.00017
%RSD	.93923	88.735	.06308	65.66	35.882
#1	1.8568	-.00012	.15149	-.0077	.00035
#2	1.8816	-.00050	.15163	-.0211	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-Bsd@5 Acquired: 10/8/2023 20:06:04 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00001**	**.00104**	**.0150**
Stddev	.00060	.00026	.00029	.0033
%RSD	122.56	1800.4	28.218	21.99
#1	-.00006	.00020	.00083	.0127
#2	-.00091	-.00017	.00125	.0173
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12387.**	**12355.**	**72897.**	**5736.8**
Stddev	1.	7.	616.	4.3
%RSD	.00938	.05953	.84547	.07556
#1	12388.	12361.	72462.	5739.9
#2	12387.	12350.	73333.	5733.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.893%	97.740%	96.547%	95.568%
Range				

Sample Name: 480-213174-F-1-BPDS Acquired: 10/8/2023 20:09:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05160**	**10.270**	**.23309**	**.47075**	**.31553**
Stddev	.00078	.061	.00101	.00034	.00086
%RSD	1.5178	.59154	.43217	.07226	.27240
#1	.05104	10.313	.23238	.47099	.31613
#2	.05215	10.227	.23380	.47051	.31492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21313**	**466.04**	**.22301**	**.0315**	**.22122**
Stddev	.00040	7.09	.00007	.0370	.00024
%RSD	.18542	1.5209	.03177	117.6	.10718
#1	.21341	471.05	.22296	.0576	.22139
#2	.21285	461.03	.22306	.0053	.22106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22254**	**.20877**	**28.813**	**29.375**	**.18906**
Stddev	.00013	.00155	.073	.123	.00064
%RSD	.05793	.74346	.25359	.41716	.33630
#1	.22245	.20986	28.865	29.462	.18861
#2	.22264	.20767	28.762	29.289	.18951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-BPDS Acquired: 10/8/2023 20:09:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**61.752**	**5.2323**	**.22522**	**326.72**	**.21726**
Stddev	.086	.0328	.00005	.56	.00076
%RSD	.13980	.62723	.02081	.17116	.34775
#1	61.813	5.2091	.22518	327.11	.21673
#2	61.691	5.2555	.22525	326.32	.21780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.042**	**.22472**	F **393.75**	**.24157**	**.22316**
Stddev	.002	.00244	.36	.00203	.00465
%RSD	.1935	1.0851	.09099	.84093	2.0849
#1	1.040	.22300	394.00	.24014	.21987
#2	1.043	.22645	393.49	.24301	.22645
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.560**	**.21149**	**.93601**	**.0032**	**.22147**
Stddev	.014	.00039	.00066	.0168	.00035
%RSD	.07184	.18490	.07024	525.3	.15705
#1	19.570	.21121	.93554	-.0087	.22171
#2	19.550	.21177	.93647	.0151	.22122
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-BPDS Acquired: 10/8/2023 20:09:44 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20674**	**.22027**	**.21212**	**.0115**
Stddev	.00099	.00052	.00005	.0002
%RSD	.47801	.23829	.02233	1.752
#1	.20744	.21989	.21216	.0116
#2	.20604	.22064	.21209	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10897.**	**11588.**	**68744.**	**5676.1**
Stddev	.	7.	30.	62.5
%RSD	.00297	.05816	.04349	1.1014
#1	10898.	11584.	68765.	5631.9
#2	10897.	11593.	68723.	5720.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.840%	91.674%	91.046%	94.557%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 20:13:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0068**	**48.116**	**.98993**	**1.0124**	**.98689**
Stddev	.0014	.017	.00131	.0001	.00222
%RSD	.13817	.03477	.13186	.00648	.22465
#1	1.0058	48.128	.99085	1.0123	.98532
#2	1.0078	48.104	.98900	1.0124	.98846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95066**	**47.677**	**.99005**	**.9416**	**.97725**
Stddev	.00038	.056	.00022	.0047	.00084
%RSD	.04031	.11752	.02189	.4962	.08565
#1	.95039	47.638	.99020	.9383	.97666
#2	.95093	47.717	.98990	.9449	.97784
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0211**	**.97948**	**47.713**	**46.770**	F **.89148**
Stddev	.0037	.00432	.017	.074	.00328
%RSD	.36305	.44061	.03468	.15725	.36816
#1	1.0184	.98254	47.701	46.822	.88916
#2	1.0237	.97643	47.724	46.718	.89380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/8/2023 20:13:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.901**	**.96969**	**1.0163**	**47.203**	**.97221**
Stddev	.117	.00133	.0001	.015	.00130
%RSD	.23461	.13749	.01232	.03114	.13340
#1	49.818	.97063	1.0162	47.193	.97129
#2	49.984	.96875	1.0164	47.214	.97313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.25**	**.98276**	**25.596**	**.98998**	**.98107**
Stddev	.01	.00049	.004	.00027	.00076
%RSD	.0291	.04957	.01463	.02705	.07708
#1	25.25	.98310	25.599	.99017	.98161
#2	25.24	.98241	25.594	.98979	.98054
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5214**	**.98064**	**.98755**	**.9896**	**.99658**
Stddev	.0483	.00136	.00052	.0021	.00207
%RSD	.50734	.13855	.05285	.2172	.20791
#1	9.4873	.97968	.98719	.9881	.99805
#2	9.5556	.98160	.98792	.9911	.99512
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 20:13:26 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98857**	**1.0057**	**1.0189**	**.9890**
Stddev	.00082	.0000	.0015	.0010
%RSD	.08253	.00194	.14370	.1056
#1	.98915	1.0057	1.0178	.9897
#2	.98800	1.0057	1.0199	.9883
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12066.**	**12548.**	**73012.**	**5773.3**
Stddev	15.	21.	373.	7.5
%RSD	.12625	.16832	.51097	.13054
#1	12055.	12533.	73276.	5778.7
#2	12076.	12563.	72748.	5768.0

Sample Name: CCB-7506043 Acquired: 10/8/2023 20:17:00 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**-.00279**	**.00058**	**.00141**	**-.00003**
Stddev	.00034	.05997	.00058	.00012	.00002
%RSD	34.281	2147.3	100.44	8.2827	86.097
#1	.00122	-.04520	.00099	.00133	-.00001
#2	.00074	.03961	.00017	.00149	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00845**	**.00002**	**-.0014**	**-.00013**
Stddev	.00004	.00210	.00005	.0168	.00020
%RSD	88.089	24.813	217.51	1224.	156.76
#1	.00007	-.00993	-.00001	-.0133	.00001
#2	.00002	-.00696	.00006	.0105	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00573**	**-.00016**	**.09120**	**-.00152**
Stddev	.00025	.00002	.00090	.05350	.00205
%RSD	87.722	.37347	559.70	58.660	135.07
#1	-.00011	-.00572	-.00080	.05337	-.00007
#2	-.00045	-.00575	.00048	.12903	-.00297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 20:17:00 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00001**	**.00004**	**-.00231**	**-.00012**
Stddev	.00130	.00008	.00032	.00543	.00033
%RSD	866.09	797.07	804.57	234.40	278.27
#1	.00107	-.00007	.00027	.00152	-.00035
#2	-.00077	.00005	-.00019	-.00615	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4184**	**-.00127**	**.03415**	**.00000**	**.00127**
Stddev	.0016	.00213	.00346	.00202	.00008
%RSD	.3830	167.78	10.118	1196500.	6.3678
#1	.4195	.00024	.03659	.00143	.00121
#2	.4173	-.00277	.03170	-.00143	.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01562**	**-.00035**	**-.00005**	**-.0041**	**-.00008**
Stddev	.01038	.00047	.00003	.0186	.00033
%RSD	66.433	133.87	52.964	455.7	433.08
#1	-.00828	-.00068	-.00003	.0091	-.00031
#2	-.02296	-.00002	-.00007	-.0173	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 20:17:00 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.00002**	**-.00025**	**.0102**
Stddev	.00010	.00024	.00000	.0015
%RSD	13.493	1040.1	1.8587	14.63
#1	-.00068	.00019	-.00025	.0092
#2	-.00083	-.00015	-.00026	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13752.**	**12902.**	**75988.**	**5756.2**
Stddev	6.	9.	188.	30.2
%RSD	.04097	.06701	.24722	.52454
#1	13756.	12908.	75856.	5734.9
#2	13748.	12896.	76121.	5777.6

Sample Name: CCVL-7610998 Acquired: 10/8/2023 20:20:44 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00674**	**.18322**	**.01341**	**.02012**	**.00209**
Stddev	.00055	.00947	.00159	.00012	.00000
%RSD	8.1850	5.1669	11.878	.60929	.12341
#1	.00635	.18991	.01228	.02020	.00209
#2	.00713	.17652	.01454	.02003	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49847**	**.00209**	**-.0127**	**.00379**
Stddev	.00004	.00556	.00014	.0038	.00028
%RSD	1.8414	1.1159	6.9345	30.20	7.2746
#1	.00190	.50240	.00199	-.0154	.00360
#2	.00195	.49453	.00219	-.0100	.00399
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	W **.00533**	**.05119**	**.64641**	**.02401**
Stddev	.00032	.00052	.00313	.01846	.00425
%RSD	7.5735	9.6682	6.1190	2.8557	17.684
#1	.00406	.00569	.05341	.63336	.02101
#2	.00452	.00496	.04898	.65947	.02702
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-30.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 20:20:44 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20340**	**.00310**	**.01044**	**.97980**	**.00939**
Stddev	.00144	.00002	.00017	.00417	.00037
%RSD	.70679	.70948	1.6293	.42567	3.9862
#1	.20441	.00312	.01056	.98275	.00912
#2	.20238	.00309	.01032	.97686	.00965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4178**	**.00809**	**.23517**	**.02067**	**.02464**
Stddev	.0020	.00030	.00200	.00105	.00176
%RSD	.4730	3.6539	.85110	5.0751	7.1273
#1	.4192	.00788	.23375	.02141	.02340
#2	.4164	.00830	.23659	.01993	.02588
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46469**	**.00880**	**.00513**	F **-.0353**	**.00489**
Stddev	.00919	.00003	.00011	.0271	.00013
%RSD	1.9784	.36663	2.0560	76.84	2.6030
#1	.47119	.00883	.00521	-.0161	.00498
#2	.45819	.00878	.00506	-.0545	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 20:20:44 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01917**	**.00480**	**.00996**	F **.0124**
Stddev	.00113	.00042	.00022	.0035
%RSD	5.8896	8.6997	2.2327	28.31
#1	.01837	.00450	.01012	.0099
#2	.01996	.00509	.00980	.0149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13857.**	**13104.**	**76452.**	**5780.5**
Stddev	3.	14.	129.	61.3
%RSD	.02467	.10858	.16864	1.0599
#1	13855.	13094.	76543.	5737.2
#2	13860.	13114.	76361.	5823.8

Sample Name: 480-213174-F-1-C MS Acquired: 10/8/2023 20:24:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05129**	**9.9653**	**.23038**	**.46706**	**.30993**
Stddev	.00006	.0011	.00080	.00039	.00053
%RSD	.11231	.01146	.34840	.08365	.17182
#1	.05133	9.9661	.22982	.46733	.30955
#2	.05125	9.9645	.23095	.46678	.31030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21024**	**472.03**	**.22024**	**-.0012**	**.21927**
Stddev	.00043	5.09	.00028	.0020	.00007
%RSD	.20670	1.0789	.12873	173.7	.03112
#1	.20993	475.63	.22044	.0003	.21922
#2	.21054	468.42	.22004	-.0026	.21932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21877**	**.20809**	**29.174**	**29.434**	**.18311**
Stddev	.00017	.00139	.025	.078	.00159
%RSD	.07737	.66930	.08638	.26368	.86756
#1	.21889	.20907	29.156	29.379	.18199
#2	.21865	.20710	29.192	29.489	.18424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-C MS Acquired: 10/8/2023 20:24:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.666**	**5.3575**	**.22193**	**334.85**	**.21476**
Stddev	.157	.0239	.00072	.65	.00086
%RSD	.25047	.44516	.32618	.19370	.40218
#1	62.555	5.3407	.22244	335.31	.21537
#2	62.777	5.3744	.22142	334.39	.21415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.058**	**.22200**	F **403.74**	**.24027**	**.22008**
Stddev	.001	.00140	.58	.00132	.00309
%RSD	.1024	.62938	.14272	.54911	1.4031
#1	1.058	.22299	404.14	.23934	.21790
#2	1.057	.22101	403.33	.24120	.22227
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.579**	**.20779**	**.94626**	**.0070**	**.21926**
Stddev	.081	.00096	.00019	.0302	.00065
%RSD	.41358	.46352	.02022	429.0	.29832
#1	19.521	.20711	.94612	-.0143	.21972
#2	19.636	.20847	.94639	.0284	.21880
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-C MS Acquired: 10/8/2023 20:24:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20482**	**.21595**	**.21032**	**.0144**
Stddev	.00020	.00014	.00009	.0019
%RSD	.09943	.06661	.04277	13.10
#1	.20496	.21585	.21025	.0130
#2	.20468	.21605	.21038	.0157
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10900.**	**11595.**	**69071.**	**5685.0**
Stddev	16.	27.	267.	41.3
%RSD	.14359	.23399	.38659	.72602
#1	10889.	11575.	69260.	5655.9
#2	10911.	11614.	68882.	5714.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.860%	91.723%	91.479%	94.706%
Range				

Sample Name: 480-213174-F-1-D MSD Acquired: 10/8/2023 20:28:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04997	10.067	.22162	.46178	.30634
Stddev	.00128	.012	.00186	.00117	.00171
%RSD	2.5587	.11479	.83866	.25298	.55706
#1	.05087	10.059	.22031	.46261	.30754
#2	.04906	10.075	.22294	.46096	.30513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20471	462.66	.21237	.0167	.21111
Stddev	.00056	4.88	.00024	.0311	.00013
%RSD	.27562	1.0552	.11310	186.1	.06033
#1	.20431	466.11	.21254	.0387	.21120
#2	.20511	459.21	.21220	-.0053	.21102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21165	.19784	28.778	29.346	.18433
Stddev	.00192	.00051	.001	.037	.00348
%RSD	.90804	.25574	.00517	.12745	1.8882
#1	.21301	.19748	28.779	29.373	.18679
#2	.21029	.19820	28.777	29.320	.18187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-D MSD Acquired: 10/8/2023 20:28:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.880**	**5.1724**	**.21436**	**329.06**	**.20603**
Stddev	.378	.0079	.00002	.80	.00004
%RSD	.62054	.15312	.00724	.24221	.01834
#1	61.147	5.1780	.21434	328.50	.20606
#2	60.613	5.1668	.21437	329.62	.20601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.044**	**.21489**	F **392.06**	**.23400**	**.21237**
Stddev	.004	.00123	.76	.00045	.00438
%RSD	.3472	.57408	.19336	.19163	2.0634
#1	1.047	.21402	392.60	.23368	.21547
#2	1.042	.21576	391.53	.23432	.20928
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.352**	**.20307**	**.94010**	**.0039**	**.21104**
Stddev	.005	.00067	.00229	.0001	.00040
%RSD	.02525	.33156	.24391	1.734	.18845
#1	19.348	.20354	.93848	.0039	.21132
#2	19.355	.20259	.94172	.0040	.21075
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213174-F-1-D MSD Acquired: 10/8/2023 20:28:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19672**	**.20792**	**.20139**	**.0155**
Stddev	.00031	.00110	.00077	.0043
%RSD	.15660	.53141	.38345	27.82
#1	.19650	.20870	.20193	.0185
#2	.19694	.20714	.20084	.0124
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10994.**	**11684.**	**69379.**	**5661.6**
Stddev	27.	22.	195.	22.4
%RSD	.24781	.19200	.28097	.39610
#1	11013.	11699.	69241.	5645.7
#2	10974.	11668.	69516.	5677.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.555%	92.426%	91.886%	94.315%
Range				

Sample Name: 480-213176-A-1-A Acquired: 10/8/2023 20:31:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.04394**	**.02799**	**.25096**	**.22384**
Stddev	.00081	.03597	.00123	.00067	.00419
%RSD	151.79	81.848	4.4029	.26740	1.8698
#1	.00111	.01851	.02886	.25143	.22088
#2	-.00004	.06938	.02712	.25049	.22680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**134.39**	**.00070**	**.0322**	**-.00008**
Stddev	.00025	.58	.00018	.0341	.00010
%RSD	173.71	.42879	26.204	105.9	126.24
#1	.00032	134.79	.00057	.0563	-.00015
#2	-.00003	133.98	.00083	.0081	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00454**	**.03127**	**.14572**	**33.823**	**-.00420**
Stddev	.00019	.00184	.00394	.057	.00275
%RSD	4.1598	5.8686	2.7063	.16739	65.529
#1	.00441	.02998	.14851	33.783	-.00614
#2	.00468	.03257	.14293	33.863	-.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213176-A-1-A Acquired: 10/8/2023 20:31:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.436**	**.01821**	**.00803**	F **953.21**	**.00389**
Stddev	.684	.00039	.00011	2.51	.00008
%RSD	2.0452	2.1638	1.3658	.26290	2.0834
#1	32.953	.01793	.00811	954.98	.00395
#2	33.920	.01849	.00795	951.44	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.988**	**.00748**	F **230.77**	**-.00182**	**-.00083**
Stddev	.013	.00022	.49	.00085	.00207
%RSD	.2112	2.9777	.21286	46.793	248.35
#1	5.979	.00732	230.42	-.00122	-.00230
#2	5.997	.00763	231.12	-.00242	.00063
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.179**	**-.00039**	**.82977**	**-.0226**	**.00106**
Stddev	.164	.00036	.00089	.0267	.00035
%RSD	.56087	92.239	.10754	118.4	33.299
#1	29.295	-.00065	.83040	-.0037	.00131
#2	29.064	-.00014	.82914	-.0414	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213176-A-1-A Acquired: 10/8/2023 20:31:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00253**	**.02969**	**.0138**
Stddev	.00062	.00004	.00007	.0003
%RSD	88.890	1.7424	.25110	2.305
#1	-.00114	.00256	.02964	.0136
#2	-.00026	.00250	.02975	.0140
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10887.**	**11828.**	**67515.**	**5675.0**
Stddev	18.	2.	1136.	.0
%RSD	.16439	.02074	1.6822	.00034
#1	10874.	11826.	68318.	5675.0
#2	10899.	11830.	66712.	5675.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.761%	93.568%	89.418%	94.538%
Range				

Sample Name: 480-213178-F-5-B Acquired: 10/8/2023 20:35:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00241**	**26.162**	**.03010**	**.22661**	**3.4998**
Stddev	.00020	.148	.00142	.00209	.0111
%RSD	8.4924	.56678	4.7182	.92289	.31832
#1	.00226	26.267	.03110	.22809	3.5077
#2	.00255	26.057	.02909	.22513	3.4919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**677.53**	**.00312**	**.0792**	**.03046**
Stddev	.00022	5.57	.00010	.0096	.00050
%RSD	13.274	.82190	3.2304	12.12	1.6579
#1	.00181	681.47	.00319	.0724	.03081
#2	.00150	673.59	.00305	.0860	.03010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34846**	**1.2292**	**122.96**	**33.193**	**.02551**
Stddev	.00114	.0014	.35	.064	.00294
%RSD	.32743	.11211	.28358	.19336	11.507
#1	.34927	1.2301	123.21	33.239	.02759
#2	.34765	1.2282	122.71	33.148	.02344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213178-F-5-B Acquired: 10/8/2023 20:35:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**205.41**	**3.2378**	**.03808**	F **914.53**	**.17528**
Stddev	.50	.0332	.00021	3.29	.00190
%RSD	.24194	1.0244	.55010	.35982	1.0815
#1	205.76	3.2613	.03823	916.86	.17662
#2	205.06	3.2144	.03793	912.21	.17394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**476.3**	**.28229**	**54.956**	**.20438**	**.00781**
Stddev	3.8	.00016	.456	.00276	.00035
%RSD	.8039	.05684	.82949	1.3503	4.4877
#1	479.0	.28218	55.279	.20242	.00805
#2	473.6	.28240	54.634	.20633	.00756
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **53.130**	**.30342**	**1.4314**	**.0900**	**1.0811**
Stddev	.073	.00302	.0042	.0026	.0001
%RSD	.13650	.99575	.29152	2.889	.00462
#1	53.181	.30556	1.4343	.0882	1.0811
#2	53.079	.30129	1.4284	.0919	1.0811
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit	45.000				
Low Limit	-.50000				

Sample Name: 480-213178-F-5-B Acquired: 10/8/2023 20:35:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00376**	**.09483**	**4.7418**	**.0192**
Stddev	.00008	.00044	.0012	.0004
%RSD	2.2225	.46326	.02463	2.095
#1	-.00382	.09514	4.7409	.0189
#2	-.00370	.09452	4.7426	.0195
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10077.**	**11839.**	**68717.**	**5809.4**
Stddev	36.	50.	103.	5.4
%RSD	.35486	.41889	.15059	.09298
#1	10052.	11804.	68790.	5805.5
#2	10102.	11874.	68644.	5813.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.754%	93.657%	91.010%	96.777%
Range				

Sample Name: 480-213140-D-5-B Acquired: 10/8/2023 20:39:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21287**	**252.24**	**.20754**	**1.9520**	F **12.957**
Stddev	.00108	.75	.00322	.0046	.297
%RSD	.50655	.29546	1.5499	.23506	2.2948
#1	.21364	251.72	.20526	1.9553	12.747
#2	.21211	252.77	.20981	1.9488	13.167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00513**	F **2210.0**	**.00894**	**.2665**	**.10046**
Stddev	.00003	9.6	.00005	.1160	.00054
%RSD	.61739	.43423	.60173	43.53	.54230
#1	.00511	2216.8	.00890	.1845	.10084
#2	.00515	2203.2	.00897	.3485	.10007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5764**	**15.355**	**363.66**	**32.320**	**.22468**
Stddev	.0044	.006	1.99	.071	.00327
%RSD	.28138	.03781	.54718	.21817	1.4550
#1	1.5795	15.359	362.26	32.270	.22237
#2	1.5733	15.351	365.07	32.370	.22699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213140-D-5-B Acquired: 10/8/2023 20:39:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mn2576-2	Mo2020	Na8183
Line	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **716.91**	**14.919**	**15.180**	**.17513**	**257.52**
Stddev	2.39	.177	.077	.00113	1.49
%RSD	.33398	1.1845	.51045	.64685	.57867
#1	718.60	15.044	15.234	.17593	256.46
#2	715.21	14.794	15.125	.17433	258.57
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	450.00				
Low Limit	-.20000				

Elem	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Line	231.604 {446}	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}
IS Ref	(In2306)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4639**	**390.3**	**1.4215**	F **188.56**	**.34362**
Stddev	.0060	1.2	.0076	.46	.00187
%RSD	.40862	.3186	.53316	.24450	.54413
#1	1.4682	391.2	1.4269	188.89	.34494
#2	1.4597	389.4	1.4161	188.23	.34230
Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass
High Limit				90.000	
Low Limit				-.20000	

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09599**	**39.021**	**.62314**	**5.8684**	**.3053**
Stddev	.00046	.124	.00140	.0006	.0166
%RSD	.48052	.31657	.22468	.00944	5.442
#1	.09566	38.933	.62413	5.8688	.2935
#2	.09632	39.108	.62215	5.8680	.3170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: 480-213140-D-5-B Acquired: 10/8/2023 20:39:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	TI1908	V_2924	Zn2062	Zr3438
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41406**	**-.01448**	**.21400**	F **50.640**	**.0367**
Stddev	.00061	.00226	.00008	.141	.0000
%RSD	.14750	15.620	.03740	.27920	.0608
#1	.41450	-.01288	.21395	50.740	.0367
#2	.41363	-.01608	.21406	50.540	.0367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None
High Limit				18.000	
Low Limit				-.01000	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8905.7**	**11702.**	**66760.**	**5989.5**
Stddev	11.6	6.	195.	40.7
%RSD	.12996	.05050	.29270	.67977
#1	8897.5	11698.	66622.	6018.3
#2	8913.9	11707.	66898.	5960.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	66.065%	92.576%	88.418%	99.778%
Range				

Sample Name: 480-213181-A-4-B Acquired: 10/8/2023 20:43:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**.43646**	**.13284**	**.03334**	**.11292**
Stddev	.00012	.01525	.00247	.00039	.00034
%RSD	7.9243	3.4933	1.8593	1.1615	.30035
#1	.00158	.42568	.13109	.03361	.11268
#2	.00142	.44725	.13459	.03306	.11316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**39.234**	**-.00098**	**.0147**	**.00426**
Stddev	.00015	.143	.00004	.0363	.00003
%RSD	48.722	.36405	4.0965	246.7	.71837
#1	.00040	39.133	-.00101	-.0110	.00424
#2	.00020	39.335	-.00095	.0404	.00428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11419**	**19.808**	**26.969**	**2.2476**	**-.00285**
Stddev	.00019	.372	.163	.0263	.00144
%RSD	.16666	1.8797	.60266	1.1719	50.380
#1	.11405	19.545	26.855	2.2662	-.00387
#2	.11432	20.071	27.084	2.2289	-.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213181-A-4-B Acquired: 10/8/2023 20:43:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.7469**	**.32196**	**.00360**	**78.630**	**.11394**
Stddev	.0470	.00054	.00001	.822	.00062
%RSD	.69661	.16759	.33506	1.0457	.54350
#1	6.7136	.32158	.00359	78.048	.11437
#2	6.7801	.32234	.00361	79.211	.11350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.8303**	**.36661**	**4.1943**	**.00950**	**-.00304**
Stddev	.0001	.00092	.0058	.00018	.00031
%RSD	.0144	.25176	.13726	1.9146	10.322
#1	.8302	.36726	4.1984	.00937	-.00282
#2	.8304	.36595	4.1902	.00963	-.00326
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9665**	**.02825**	**.11675**	**.0058**	**.00399**
Stddev	.0313	.00003	.00066	.0092	.00040
%RSD	.63018	.12367	.56188	158.3	9.9316
#1	4.9444	.02828	.11629	.0123	.00427
#2	4.9887	.02823	.11722	-.0007	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213181-A-4-B Acquired: 10/8/2023 20:43:47 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00150**	**2.2973**	**.0131**
Stddev	.00006	.00034	.0144	.0020
%RSD	18.329	22.317	.62550	14.95
#1	-.00037	.00174	2.2872	.0144
#2	-.00028	.00126	2.3075	.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12555.**	**12646.**	**74878.**	**5833.7**
Stddev	12.	7.	751.	68.0
%RSD	.09320	.05657	1.0036	1.1650
#1	12547.	12641.	75409.	5881.7
#2	12563.	12651.	74346.	5785.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.137%	100.04%	99.170%	97.182%
Range				

Sample Name: rinse Acquired: 10/8/2023 20:47:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.02399**	**.00015**	**.00110**	**-.00002**
Stddev	.00029	.03724	.00061	.00027	.00000
%RSD	143.21	155.24	405.84	24.661	11.814
#1	.00041	-.00234	.00058	.00129	-.00002
#2	-.00000	.05033	-.00028	.00091	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00950**	**.00005**	**-.0136**	**-.00014**
Stddev	.00007	.00082	.00015	.0141	.00009
%RSD	50.080	8.6365	277.98	104.4	63.553
#1	.00018	-.00892	-.00005	-.0236	-.00020
#2	.00009	-.01008	.00016	-.0035	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00513**	**.00170**	**.10078**	**-.00303**
Stddev	.00003	.00037	.00021	.00122	.00085
%RSD	39.063	7.2808	12.419	1.2100	28.137
#1	.00006	-.00486	.00155	.09992	-.00243
#2	.00011	-.00539	.00185	.10164	-.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 20:47:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00179**	**-.00000**	**.00022**	**.00917**	**.00010**
Stddev	.00026	.00004	.00010	.00463	.00022
%RSD	14.808	4116.8	47.841	50.508	208.78
#1	.00160	.00003	.00029	.01245	-.00005
#2	.00197	-.00003	.00014	.00590	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4186**	**-.00033**	**.02513**	**.00056**	**-.00109**
Stddev	.0001	.00029	.00021	.00050	.00349
%RSD	.0138	88.088	.82716	87.908	321.63
#1	.4185	-.00012	.02528	.00021	.00138
#2	.4186	-.00053	.02498	.00092	-.00356
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03029**	**.00013**	**.00014**	**-.0412**	**-.00003**
Stddev	.00554	.00021	.00008	.0162	.00002
%RSD	18.286	163.86	58.632	39.25	69.578
#1	-.02637	-.00002	.00021	-.0298	-.00002
#2	-.03420	.00028	.00008	-.0527	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 20:47:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.00026**	**-.00041**	**.0121**
Stddev	.00205	.00008	.00018	.0008
%RSD	216.62	32.571	44.950	6.499
#1	.00050	.00032	-.00054	.0116
#2	-.00240	.00020	-.00028	.0127
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13845.**	**13010.**	**76756.**	**5762.9**
Stddev	27.	25.	161.	40.1
%RSD	.19438	.19106	.20998	.69638
#1	13826.	12992.	76870.	5791.2
#2	13864.	13028.	76642.	5734.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.70%	102.92%	101.66%	96.002%
Range				

Sample Name: MB 480-684702/1-A Acquired: 10/8/2023 20:51:15 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**.04117**	**.00009**	**.00190**	**.00008**
Stddev	.00021	.00547	.00060	.00023	.00001
%RSD	15.388	13.273	703.19	12.140	13.400
#1	.00153	.03731	-.00034	.00173	.00007
#2	.00123	.04504	.00051	.00206	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.02277**	**.00020**	**.0055**	**-.00018**
Stddev	.00010	.00014	.00012	.0106	.00007
%RSD	80.657	.59841	60.680	191.4	40.720
#1	.00020	.02268	.00028	-.0020	-.00023
#2	.00005	.02287	.00011	.0131	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	F **-.00648**	**.00562**	**.16366**	**-.00365**
Stddev	.00014	.00037	.00450	.00773	.00036
%RSD	13.642	5.7560	79.965	4.7236	9.8392
#1	.00093	-.00622	.00880	.15819	-.00340
#2	.00113	-.00674	.00244	.16912	-.00391
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.00400			

Sample Name: MB 480-684702/1-A Acquired: 10/8/2023 20:51:15 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00406**	**.00047**	**.00011**	**.14381**	**.00027**
Stddev	.00093	.00003	.00037	.01009	.00006
%RSD	22.802	6.8791	335.60	7.0194	22.870
#1	.00471	.00045	.00037	.15095	.00031
#2	.00340	.00049	-.00015	.13667	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4161**	**-.00095**	**.04818**	**.00092**	**.00065**
Stddev	.0007	.00035	.00202	.00145	.00380
%RSD	.1653	36.367	4.1963	158.65	584.70
#1	.4156	-.00071	.04961	.00194	-.00204
#2	.4166	-.00120	.04675	-.00011	.00333
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00281**	**-.00018**	**.00002**	**-.0369**	**.00057**
Stddev	.00116	.00002	.00010	.0198	.00004
%RSD	41.158	12.322	517.63	53.69	7.1549
#1	-.00363	-.00020	.00009	-.0509	.00054
#2	-.00199	-.00016	-.00005	-.0229	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-684702/1-A Acquired: 10/8/2023 20:51:15 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00101**	**-.00029**	**.00072**	**.0131**
Stddev	.00024	.00010	.00032	.0017
%RSD	24.179	35.290	44.311	12.67
#1	-.00118	-.00036	.00049	.0119
#2	-.00083	-.00022	.00094	.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13712.**	**12940.**	**76586.**	**5834.6**
Stddev	34.	36.	86.	21.7
%RSD	.24752	.27812	.11207	.37129
#1	13688.	12915.	76647.	5819.3
#2	13736.	12965.	76525.	5850.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.72%	102.37%	101.43%	97.198%
Range				

Sample Name: LCS 480-684702/2-A Acquired: 10/8/2023 20:54:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05088**	**10.550**	**.21445**	**.21954**	**.21843**
Stddev	.00107	.035	.00059	.00059	.00081
%RSD	2.1075	.33295	.27307	.26750	.36962
#1	.05164	10.525	.21403	.21912	.21901
#2	.05012	10.575	.21486	.21995	.21786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21344**	**10.569**	**.21586**	**.0081**	**.21362**
Stddev	.00028	.040	.00021	.0959	.00020
%RSD	.12993	.37887	.09662	1178.	.09146
#1	.21324	10.541	.21571	.0759	.21376
#2	.21364	10.597	.21601	-.0596	.21348
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22464**	**.20831**	**10.437**	**10.180**	**.18356**
Stddev	.00004	.00047	.044	.034	.00116
%RSD	.01774	.22457	.42083	.33674	.62997
#1	.22461	.20798	10.406	10.205	.18438
#2	.22466	.20864	10.468	10.156	.18274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-684702/2-A Acquired: 10/8/2023 20:54:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.623**	**.21595**	**.22643**	**10.539**	**.20519**
Stddev	.013	.00033	.00018	.009	.00052
%RSD	.12320	.15431	.08103	.08130	.25463
#1	10.632	.21619	.22630	10.533	.20482
#2	10.613	.21572	.22656	10.545	.20556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4157**	**.21406**	**11.160**	F **.23926**	**.21276**
Stddev	.0003	.00037	.015	.00052	.00092
%RSD	.0794	.17360	.13105	.21726	.43122
#1	.4160	.21432	11.149	.23963	.21341
#2	.4155	.21380	11.170	.23890	.21212
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.500**	**.20752**	**.21803**	**-.0187**	**.22098**
Stddev	.100	.00059	.00085	.0036	.00068
%RSD	.95547	.28297	.38813	19.38	.30571
#1	10.429	.20794	.21743	-.0162	.22050
#2	10.571	.20711	.21863	-.0213	.22146
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-684702/2-A Acquired: 10/8/2023 20:54:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21847**	**.21909**	F **.32932**	**.0135**
Stddev	.00070	.00011	.00056	.0033
%RSD	.31910	.04892	.17088	24.44
#1	.21897	.21901	.32972	.0158
#2	.21798	.21917	.32892	.0111
Check ?	Chk Pass	Chk Pass	Chk Fail	None
High Limit			.23000	
Low Limit			.17000	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13106.**	**12831.**	**75548.**	**5754.1**
Stddev	39.	36.	53.	29.7
%RSD	.29816	.28154	.07039	.51658
#1	13078.	12806.	75511.	5733.1
#2	13133.	12857.	75586.	5775.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.222%	101.51%	100.06%	95.857%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 20:58:29 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0092**	**47.924**	**.99039**	**1.0130**	**.98719**
Stddev	.0029	.034	.00095	.0003	.00193
%RSD	.28465	.07156	.09641	.02556	.19541
#1	1.0071	47.949	.99106	1.0132	.98583
#2	1.0112	47.900	.98971	1.0128	.98856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94742**	**47.860**	**.99068**	**.9602**	**.97670**
Stddev	.00008	.139	.00171	.0174	.00157
%RSD	.00853	.29065	.17240	1.813	.16067
#1	.94747	47.761	.99189	.9479	.97781
#2	.94736	47.958	.98948	.9725	.97559
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0251**	**.98080**	**47.722**	**46.123**	F **.87428**
Stddev	.0029	.00002	.088	.100	.00210
%RSD	.28618	.00159	.18415	.21582	.24056
#1	1.0230	.98079	47.660	46.193	.87280
#2	1.0272	.98082	47.785	46.052	.87577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/8/2023 20:58:29 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.946**	**.97028**	**1.0187**	**47.136**	**.97207**
Stddev	.255	.00015	.0033	.121	.00098
%RSD	.51100	.01562	.32563	.25665	.10110
#1	49.766	.97039	1.0210	47.050	.97277
#2	50.126	.97018	1.0163	47.221	.97138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.26**	**.98317**	**25.557**	**.99245**	**.97974**
Stddev	.08	.00255	.057	.00600	.00950
%RSD	.3228	.25902	.22164	.60466	.96978
#1	25.32	.98497	25.597	.99670	.98646
#2	25.20	.98137	25.517	.98821	.97302
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5165**	**.97952**	**.98697**	**.9812**	**.99827**
Stddev	.0079	.00135	.00017	.0083	.00044
%RSD	.08332	.13807	.01677	.8485	.04436
#1	9.5109	.98047	.98709	.9753	.99795
#2	9.5222	.97856	.98686	.9871	.99858
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 20:58:29 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98371**	**1.0107**	**1.0214**	**.9850**
Stddev	.00134	.0028	.0043	.0067
%RSD	.13620	.27794	.41680	.6759
#1	.98276	1.0087	1.0184	.9803
#2	.98466	1.0126	1.0245	.9897
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12051.**	**12525.**	**72881.**	**5687.7**
Stddev	5.	7.	421.	36.7
%RSD	.03752	.05603	.57758	.64484
#1	12054.	12520.	73179.	5661.8
#2	12048.	12530.	72584.	5713.7

Sample Name: CCB-7506043 Acquired: 10/8/2023 21:02:03 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**-.01384**	**-.00004**	**.00079**	**-.00001**
Stddev	.00019	.01928	.00012	.00030	.00000
%RSD	23.176	139.24	306.58	38.679	40.521
#1	.00093	-.02747	-.00012	.00100	-.00001
#2	.00067	-.00021	.00005	.00057	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00437**	**.00009**	**-.0336**	**-.00027**
Stddev	.00001	.00188	.00012	.0510	.00002
%RSD	7.9486	43.047	135.56	151.5	8.9407
#1	.00016	-.00304	.00017	.0024	-.00028
#2	.00014	-.00571	.00000	-.0697	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00627**	**.00236**	**.16373**	**-.00385**
Stddev	.00001	.00059	.00074	.07215	.00026
%RSD	2.5007	9.4080	31.372	44.063	6.7712
#1	-.00022	-.00669	.00288	.21475	-.00367
#2	-.00023	-.00585	.00184	.11272	-.00404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 21:02:03 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00136**	**.00002**	**.00016**	**-.02610**	**-.00021**
Stddev	.00210	.00002	.00013	.00726	.00031
%RSD	154.60	101.48	82.779	27.822	150.22
#1	.00013	.00003	.00026	-.03124	-.00043
#2	-.00284	.00000	.00007	-.02097	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4191**	**-.00043**	**.01145**	**.00221**	**.00170**
Stddev	.0042	.00179	.00282	.00081	.00020
%RSD	1.005	419.26	24.654	36.663	11.465
#1	.4161	.00084	.01345	.00164	.00156
#2	.4221	-.00169	.00946	.00279	.00184
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01433**	**-.00015**	**.00001**	**-.0260**	**.00034**
Stddev	.00336	.00046	.00040	.0130	.00016
%RSD	23.466	308.56	3541.8	49.79	46.901
#1	-.01671	.00018	.00030	-.0352	.00023
#2	-.01195	-.00048	-.00027	-.0169	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 21:02:03 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00027**	**-.00007**	**.0105**
Stddev	.00016	.00027	.00013	.0026
%RSD	31.372	100.46	192.35	24.35
#1	.00061	.00008	.00002	.0087
#2	.00039	.00046	-.00016	.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13938.**	**13087.**	**76927.**	**5751.1**
Stddev	35.	29.	66.	39.9
%RSD	.25467	.22532	.08626	.69345
#1	13913.	13066.	76880.	5722.9
#2	13963.	13108.	76974.	5779.3

Sample Name: CCVL-7610998 Acquired: 10/8/2023 21:05:47 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00733**	**.20825**	**.01489**	**.02095**	**.00207**
Stddev	.00035	.07504	.00110	.00016	.00003
%RSD	4.7800	36.031	7.3626	.76462	1.4171
#1	.00709	.26131	.01411	.02083	.00209
#2	.00758	.15519	.01566	.02106	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	**.49813**	**.00211**	**-.0076**	**.00372**
Stddev	.00007	.00000	.00005	.0168	.00017
%RSD	3.3815	.00037	2.2463	221.0	4.6559
#1	.00198	.49814	.00207	.0043	.00384
#2	.00189	.49813	.00214	-.0195	.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	F **.00494**	**.04966**	**.55967**	**.02121**
Stddev	.00035	.00083	.00107	.01239	.00003
%RSD	8.1414	16.729	2.1520	2.2130	.13493
#1	.00402	.00553	.05042	.56843	.02123
#2	.00451	.00436	.04890	.55091	.02119
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 21:05:47 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20582**	**.00309**	**.01065**	**.99095**	**.00955**
Stddev	.00372	.00005	.00008	.01494	.00045
%RSD	1.8082	1.6087	.71220	1.5077	4.7285
#1	.20319	.00313	.01070	.98039	.00987
#2	.20845	.00306	.01060	1.0015	.00923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4178**	**.00916**	**.22709**	**.02342**	**.02415**
Stddev	.0001	.00035	.00109	.00023	.00105
%RSD	.0259	3.8104	.48188	.97264	4.3546
#1	.4179	.00940	.22787	.02326	.02489
#2	.4178	.00891	.22632	.02358	.02341
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47071**	**.00918**	**.00491**	F **-.0323**	**.00501**
Stddev	.01507	.00025	.00011	.0088	.00014
%RSD	3.2014	2.7471	2.2560	27.23	2.7198
#1	.46006	.00900	.00499	-.0386	.00511
#2	.48137	.00936	.00483	-.0261	.00492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 21:05:47 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01890**	**.00523**	**.01012**	F **.0124**
Stddev	.00082	.00025	.00024	.0025
%RSD	4.3215	4.7365	2.3868	20.18
#1	.01832	.00540	.01029	.0141
#2	.01948	.00505	.00995	.0106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13625.**	**12888.**	**76007.**	**5747.7**
Stddev	11.	6.	458.	11.8
%RSD	.08098	.04858	.60286	.20573
#1	13633.	12892.	75683.	5756.0
#2	13618.	12883.	76331.	5739.3

Sample Name: 480-212958-C-1-A Acquired: 10/8/2023 21:09:28 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**.08090**	**-.00126**	**.06138**	**.09901**
Stddev	.00039	.03926	.00003	.00002	.00048
%RSD	33.320	48.527	2.0270	.03548	.48956
#1	.00146	.05314	-.00128	.06140	.09867
#2	.00090	.10866	-.00124	.06137	.09936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**71.423**	**.00035**	**.0123**	**.00016**
Stddev	.00009	.138	.00015	.0515	.00011
%RSD	110.90	.19256	42.457	417.7	68.625
#1	.00002	71.521	.00024	.0487	.00008
#2	.00015	71.326	.00045	-.0241	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**-.00402**	**.14478**	**2.4600**	**-.00219**
Stddev	.00036	.00132	.00021	.0023	.00361
%RSD	18.063	32.889	.14273	.09450	164.77
#1	.00172	-.00308	.14463	2.4583	-.00474
#2	.00222	-.00495	.14493	2.4616	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-A Acquired: 10/8/2023 21:09:28 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.364**	**.08015**	**.00201**	**21.121**	**.00021**
Stddev	.043	.00008	.00039	.030	.00030
%RSD	.20106	.09414	19.340	.14322	141.59
#1	21.333	.08021	.00228	21.142	-.00000
#2	21.394	.08010	.00173	21.100	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4401**	**.00007**	**12.627**	**-.00130**	**.00077**
Stddev	.0004	.00031	.049	.00019	.00019
%RSD	.0846	427.06	.38913	14.699	25.052
#1	.4404	.00030	12.661	-.00117	.00091
#2	.4399	-.00015	12.592	-.00144	.00063
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2992**	**.00009**	**.32385**	**-.0302**	**.00132**
Stddev	.0185	.00068	.00112	.0006	.00076
%RSD	.43024	755.84	.34687	1.888	57.823
#1	4.3123	.00057	.32306	-.0306	.00078
#2	4.2861	-.00039	.32465	-.0298	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-A Acquired: 10/8/2023 21:09:28 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.00009**	**.00239**	**.0119**
Stddev	.00097	.00075	.00004	.0054
%RSD	70.076	811.83	1.4783	45.06
#1	-.00070	-.00044	.00242	.0157
#2	-.00207	.00062	.00237	.0081
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12694.**	**12525.**	**74032.**	**5739.7**
Stddev	21.	23.	141.	35.9
%RSD	.16606	.18156	.19027	.62549
#1	12679.	12509.	73933.	5765.1
#2	12709.	12541.	74132.	5714.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.166%	99.083%	98.050%	95.616%
Range				

Sample Name: 480-212958-C-1-Asd@5 Acquired: 10/8/2023 21:13:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.05012**	**-.00010**	**.01328**	**.01975**
Stddev	.00083	.01900	.00041	.00028	.00001
%RSD	239.54	37.898	387.30	2.0776	.06898
#1	.00093	.03669	-.00039	.01309	.01976
#2	-.00024	.06355	.00018	.01348	.01974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**14.341**	**.00003**	**.0024**	**.00002**
Stddev	.00022	.029	.00012	.0224	.00006
%RSD	269.63	.20453	395.44	945.4	251.06
#1	.00024	14.320	-.00005	.0182	.00007
#2	-.00007	14.361	.00011	-.0135	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00613**	**.03079**	**.55920**	**-.00472**
Stddev	.00021	.00146	.00093	.01388	.00040
%RSD	70.017	23.854	3.0214	2.4828	8.4437
#1	.00015	-.00510	.03013	.54939	-.00500
#2	.00045	-.00717	.03145	.56902	-.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-Asd@5 Acquired: 10/8/2023 21:13:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2876**	**.01607**	**.00046**	**4.2793**	**.00031**
Stddev	.0126	.00006	.00008	.0106	.00010
%RSD	.29311	.38200	16.661	.24747	32.530
#1	4.2787	.01612	.00041	4.2718	.00038
#2	4.2965	.01603	.00052	4.2868	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4229**	**-.00055**	**2.4484**	**-.00005**	**-.00151**
Stddev	.0015	.00085	.0026	.00033	.00365
%RSD	.3503	152.95	.10542	651.02	241.28
#1	.4239	.00005	2.4466	.00018	-.00410
#2	.4218	-.00115	2.4503	-.00028	.00107
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82352**	**-.00001**	**.06471**	**-.0256**	**.00043**
Stddev	.02092	.00006	.00019	.0372	.00067
%RSD	2.5400	716.42	.29609	145.4	156.08
#1	.83831	.00004	.06485	-.0519	-.00004
#2	.80873	-.00005	.06457	.0007	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-Asd@5 Acquired: 10/8/2023 21:13:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00006**	**.00059**	**.0111**
Stddev	.00113	.00018	.00006	.0027
%RSD	266.05	328.94	10.682	24.55
#1	.00038	-.00007	.00064	.0130
#2	-.00123	.00018	.00055	.0092
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13467.**	**12823.**	**75959.**	**5761.8**
Stddev	22.	15.	238.	7.2
%RSD	.16265	.11374	.31352	.12410
#1	13483.	12833.	76127.	5756.8
#2	13452.	12813.	75791.	5766.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.905%	101.44%	100.60%	95.985%
Range				

Sample Name: 480-212958-C-1-APDS Acquired: 10/8/2023 21:16:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05004**	**9.9636**	**.20903**	**.26478**	**.29672**
Stddev	.00087	.0058	.00008	.00036	.00002
%RSD	1.7303	.05784	.03874	.13486	.00658
#1	.05065	9.9677	.20898	.26503	.29673
#2	.04943	9.9596	.20909	.26453	.29670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20517**	**75.824**	**.20797**	**-.0263**	**.20541**
Stddev	.00052	.240	.00007	.0234	.00017
%RSD	.25353	.31715	.03282	89.15	.08386
#1	.20480	75.654	.20802	-.0429	.20553
#2	.20554	75.994	.20792	-.0097	.20529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21460**	**.19672**	**10.020**	**11.899**	**.17513**
Stddev	.00010	.00003	.026	.046	.00063
%RSD	.04722	.01666	.26321	.39002	.35898
#1	.21453	.19675	10.001	11.932	.17557
#2	.21467	.19670	10.038	11.866	.17468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-APDS Acquired: 10/8/2023 21:16:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.726**	**.27489**	**.21806**	**28.734**	**.19745**
Stddev	.034	.00034	.00076	.056	.00090
%RSD	.11538	.12472	.35077	.19327	.45611
#1	29.702	.27513	.21860	28.695	.19809
#2	29.750	.27464	.21752	28.774	.19682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4304**	**.20878**	**22.324**	**.22770**	**.20361**
Stddev	.0028	.00129	.041	.00147	.00202
%RSD	.6460	.62009	.18142	.64434	.99059
#1	.4324	.20787	22.353	.22666	.20219
#2	.4285	.20970	22.296	.22874	.20504
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.823**	**.20134**	**.50307**	**-.0118**	**.21286**
Stddev	.015	.00047	.00133	.0016	.00063
%RSD	.11186	.23418	.26427	13.56	.29560
#1	13.812	.20167	.50401	-.0129	.21241
#2	13.834	.20100	.50213	-.0106	.21330
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-APDS Acquired: 10/8/2023 21:16:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20895**	**.21031**	**.20752**	**.0122**
Stddev	.00051	.00075	.00026	.0018
%RSD	.24449	.35843	.12473	14.42
#1	.20931	.20977	.20734	.0134
#2	.20859	.21084	.20770	.0109
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12640.**	**12788.**	**75125.**	**5852.6**
Stddev	4.	13.	257.	40.2
%RSD	.03337	.09842	.34266	.68638
#1	12637.	12779.	75307.	5881.0
#2	12643.	12797.	74943.	5824.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.769%	101.16%	99.497%	97.496%
Range				

Sample Name: 480-212958-C-1-B MS Acquired: 10/8/2023 21:20:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05055**	**10.604**	**.21597**	**.27780**	**.31093**
Stddev	.00016	.009	.00137	.00088	.00606
%RSD	.30980	.08213	.63626	.31688	1.9501
#1	.05066	10.597	.21500	.27842	.30664
#2	.05044	10.610	.21694	.27717	.31521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21423**	**81.610**	**.21477**	**.0233**	**.21340**
Stddev	.00006	.037	.00086	.0201	.00061
%RSD	.02594	.04548	.39964	86.31	.28437
#1	.21427	81.636	.21537	.0375	.21383
#2	.21419	81.583	.21416	.0091	.21297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22166**	**.20638**	**10.557**	**12.622**	**.18412**
Stddev	.00050	.00087	.043	.061	.00219
%RSD	.22589	.42374	.40395	.47985	1.1873
#1	.22201	.20700	10.527	12.580	.18567
#2	.22130	.20577	10.587	12.665	.18258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-B MS Acquired: 10/8/2023 21:20:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.385**	**.28973**	**.22583**	**30.722**	**.20520**
Stddev	.012	.00053	.00130	.031	.00028
%RSD	.03821	.18385	.57726	.10220	.13510
#1	31.377	.29011	.22676	30.744	.20540
#2	31.394	.28935	.22491	30.700	.20500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4375**	**.21653**	**23.517**	**.23709**	**.20789**
Stddev	.0004	.00006	.044	.00008	.00076
%RSD	.1017	.02798	.18694	.03363	.36532
#1	.4372	.21648	23.548	.23715	.20843
#2	.4379	.21657	23.486	.23704	.20736
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.069**	**.20856**	**.53441**	**-.0120**	**.22255**
Stddev	.036	.00074	.00004	.0103	.00067
%RSD	.22183	.35258	.00830	85.60	.29884
#1	16.043	.20908	.53444	-.0047	.22302
#2	16.094	.20804	.53438	-.0193	.22208
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-B MS Acquired: 10/8/2023 21:20:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21569**	**.21904**	**.21092**	**.0118**
Stddev	.00095	.00030	.00016	.0005
%RSD	.44277	.13486	.07485	4.401
#1	.21636	.21925	.21081	.0114
#2	.21501	.21883	.21103	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12431.**	**12600.**	**74080.**	**5744.4**
Stddev	15.	30.	327.	25.5
%RSD	.12370	.23599	.44197	.44377
#1	12420.	12579.	74311.	5726.4
#2	12442.	12621.	73848.	5762.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.216%	99.675%	98.112%	95.695%
Range				

Sample Name: 480-212958-C-1-C MSD Acquired: 10/8/2023 21:24:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05008**	**10.515**	**.21483**	**.27527**	**.30458**
Stddev	.00055	.060	.00001	.00047	.00025
%RSD	1.0893	.57026	.00329	.17114	.08145
#1	.05046	10.473	.21482	.27560	.30475
#2	.04969	10.558	.21483	.27493	.30440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21042**	**78.634**	**.21278**	**.0287**	**.21047**
Stddev	.00084	.128	.00059	.0386	.00008
%RSD	.39974	.16269	.27661	134.3	.03999
#1	.20982	78.544	.21236	.0560	.21053
#2	.21101	78.725	.21320	.0014	.21041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21966**	**.20143**	**10.455**	**12.443**	**.18365**
Stddev	.00079	.00109	.047	.056	.00073
%RSD	.35766	.54040	.44579	.45372	.40019
#1	.22021	.20220	10.423	12.403	.18313
#2	.21910	.20066	10.488	12.483	.18417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-C MSD Acquired: 10/8/2023 21:24:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.627**	**.28353**	**.22398**	**29.849**	**.20235**
Stddev	.171	.00149	.00064	.051	.00027
%RSD	.55723	.52713	.28627	.17244	.13184
#1	30.747	.28458	.22353	29.813	.20216
#2	30.506	.28247	.22443	29.886	.20254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4354**	**.21305**	**23.044**	**.23248**	**.20417**
Stddev	.0003	.00060	.012	.00070	.00008
%RSD	.0711	.28353	.05366	.30151	.03929
#1	.4356	.21263	23.035	.23198	.20411
#2	.4352	.21348	23.053	.23297	.20422
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.417**	**.20473**	**.52124**	**-.0270**	**.22023**
Stddev	.058	.00060	.00235	.0038	.00166
%RSD	.40414	.29093	.45161	14.27	.75236
#1	14.376	.20431	.51957	-.0242	.22140
#2	14.458	.20515	.52290	-.0297	.21906
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-1-C MSD Acquired: 10/8/2023 21:24:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21226**	**.21572**	**.21203**	**.0136**
Stddev	.00010	.00153	.00103	.0010
%RSD	.04937	.70834	.48809	7.138
#1	.21233	.21680	.21276	.0143
#2	.21219	.21464	.21129	.0129
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12619.**	**12779.**	**75041.**	**5854.1**
Stddev	6.	12.	26.	7.6
%RSD	.04505	.09048	.03479	.13042
#1	12623.	12787.	75059.	5859.5
#2	12615.	12771.	75022.	5848.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.611%	101.09%	99.386%	97.521%
Range				

Sample Name: 480-212958-C-2-A Acquired: 10/8/2023 21:27:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00117**	**.12726**	**.00556**	**4.6082**	**.16689**
Stddev	.00045	.01256	.00163	.0201	.00107
%RSD	38.279	9.8682	29.298	.43663	.64073
#1	.00085	.13614	.00441	4.5940	.16764
#2	.00149	.11838	.00671	4.6224	.16613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**178.22**	**.00017**	**.0145**	**.00090**
Stddev	.00021	.60	.00012	.0293	.00014
%RSD	180.78	.33436	69.127	201.8	15.805
#1	-.00003	178.64	.00009	.0352	.00080
#2	.00027	177.80	.00026	-.0062	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00454**	**4.5116**	**6.5058**	**-.00633**
Stddev	.00013	.00124	.0099	.0354	.00026
%RSD	24.906	27.305	.21891	.54395	4.0750
#1	.00045	-.00541	4.5046	6.5308	-.00615
#2	.00064	-.00366	4.5186	6.4808	-.00651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-2-A Acquired: 10/8/2023 21:27:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.989**	**5.3104**	**.29025**	**51.353**	**.00166**
Stddev	.275	.0400	.00043	.219	.00034
%RSD	.67049	.75392	.14732	.42571	20.352
#1	41.183	5.3387	.28995	51.508	.00190
#2	40.794	5.2821	.29055	51.198	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5189**	**.00200**	**47.232**	**-.00273**	**.00013**
Stddev	.0010	.00188	.225	.00075	.00389
%RSD	.1959	94.040	.47584	27.603	3065.0
#1	.5196	.00067	47.073	-.00220	.00287
#2	.5182	.00333	47.391	-.00327	-.00262
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2077**	**.00043**	**.35804**	**-.0300**	**.00161**
Stddev	.0057	.00008	.00072	.0202	.00032
%RSD	.13659	17.718	.20231	67.19	19.886
#1	4.2118	.00049	.35856	-.0443	.00183
#2	4.2036	.00038	.35753	-.0158	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-2-A Acquired: 10/8/2023 21:27:39 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00047**	**.54634**	**.0128**
Stddev	.00157	.00019	.00210	.0011
%RSD	260.08	40.407	.38403	8.218
#1	.00051	-.00033	.54782	.0135
#2	-.00171	-.00060	.54486	.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12030.**	**12193.**	**72584.**	**5688.0**
Stddev	26.	15.	348.	39.0
%RSD	.21744	.12141	.47968	.68487
#1	12048.	12203.	72338.	5660.4
#2	12011.	12182.	72830.	5715.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.242%	96.454%	96.131%	94.755%
Range				

Sample Name: 480-212958-C-3-A Acquired: 10/8/2023 21:31:19 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.15742**	**.02279**	**17.105**	**.02758**
Stddev	.00041	.00131	.00260	.002	.00002
%RSD	83.481	.82956	11.423	.01241	.07844
#1	.00078	.15650	.02095	17.103	.02756
#2	.00020	.15835	.02463	17.106	.02759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**299.73**	**-.00028**	**-.0139**	**-.00399**
Stddev	.00014	1.52	.00003	.0467	.00019
%RSD	388.55	.50742	10.973	335.8	4.7371
#1	-.00006	300.81	-.00030	-.0469	-.00412
#2	.00013	298.66	-.00026	.0191	-.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**-.00501**	**.40135**	**222.00**	**1.5247**
Stddev	.00069	.00103	.00509	1.28	.0069
%RSD	66.333	20.528	1.2680	.57456	.45614
#1	.00055	-.00574	.39775	222.90	1.5297
#2	.00153	-.00428	.40495	221.10	1.5198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-3-A Acquired: 10/8/2023 21:31:19 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9219**	**1.5239**	**4.0617**	**202.29**	**.00758**
Stddev	.0244	.0010	.0004	.11	.00075
%RSD	.41129	.06574	.01022	.05438	9.8945
#1	5.9046	1.5246	4.0614	202.37	.00705
#2	5.9391	1.5232	4.0620	202.22	.00811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5190**	**.00560**	F **498.69**	**-.01622**	**.00022**
Stddev	.0025	.00089	.15	.00146	.00087
%RSD	.4755	15.944	.03082	9.0275	396.02
#1	.5208	.00497	498.80	-.01518	.00084
#2	.5173	.00623	498.58	-.01725	-.00040
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3671**	**.00007**	**.90139**	**-.0216**	**.00223**
Stddev	.0008	.00003	.00391	.0019	.00020
%RSD	.03558	45.443	.43338	8.672	8.7556
#1	2.3665	.00009	.90415	-.0229	.00209
#2	2.3677	.00005	.89863	-.0202	.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-3-A Acquired: 10/8/2023 21:31:19 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00027**	**.00122**	**.0120**
Stddev	.00027	.00008	.00031	.0013
%RSD	124.52	29.963	25.429	10.86
#1	.00041	-.00033	.00144	.0111
#2	.00003	-.00021	.00100	.0129
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11195.**	**11882.**	**69792.**	**5682.4**
Stddev	15.	30.	190.	59.8
%RSD	.13586	.25388	.27221	1.0526
#1	11206.	11904.	69926.	5640.2
#2	11184.	11861.	69657.	5724.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.050%	93.999%	92.433%	94.662%
Range				

Sample Name: 480-212958-C-3-B MS Acquired: 10/8/2023 21:35:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05017**	**10.412**	**.23853**	**16.796**	**.23235**
Stddev	.00026	.020	.00049	.029	.00059
%RSD	.51831	.19665	.20738	.17501	.25454
#1	.04999	10.426	.23888	16.817	.23277
#2	.05036	10.397	.23818	16.775	.23194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20900**	**303.30**	**.21442**	**-.0107**	**.21381**
Stddev	.00098	2.98	.00035	.0087	.00004
%RSD	.46914	.98278	.16394	80.82	.01659
#1	.20831	301.20	.21467	-.0168	.21384
#2	.20969	305.41	.21418	-.0046	.21379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21377**	**.20177**	**10.386**	**225.87**	**1.6892**
Stddev	.00036	.00039	.008	.28	.0049
%RSD	.16791	.19113	.08003	.12316	.29049
#1	.21352	.20204	10.380	226.07	1.6857
#2	.21403	.20149	10.392	225.68	1.6927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-3-B MS Acquired: 10/8/2023 21:35:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.372**	**1.6870**	**4.1451**	**208.52**	**.21567**
Stddev	.016	.0037	.0071	.29	.00013
%RSD	.10541	.21755	.17198	.13699	.05999
#1	15.360	1.6896	4.1502	208.32	.21576
#2	15.383	1.6844	4.1401	208.73	.21558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5119**	**.21856**	F **494.35**	**.22109**	**.21502**
Stddev	.0002	.00085	.78	.00003	.00061
%RSD	.0434	.38684	.15712	.01201	.28470
#1	.5121	.21797	494.90	.22107	.21545
#2	.5118	.21916	493.80	.22111	.21459
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.622**	**.21270**	**1.0888**	**-.0168**	**.21748**
Stddev	.039	.00037	.0020	.0083	.00113
%RSD	.31097	.17550	.18655	49.67	.51829
#1	12.594	.21244	1.0902	-.0109	.21828
#2	12.650	.21297	1.0873	-.0227	.21669
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-3-B MS Acquired: 10/8/2023 21:35:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20622**	**.21582**	**.20754**	**.0134**
Stddev	.00050	.00021	.00023	.0035
%RSD	.24427	.09577	.11274	25.98
#1	.20587	.21567	.20771	.0109
#2	.20658	.21597	.20737	.0159
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11202.**	**11941.**	**70320.**	**5628.6**
Stddev	19.	39.	252.	6.3
%RSD	.17024	.32838	.35789	.11272
#1	11188.	11913.	70498.	5624.1
#2	11215.	11969.	70142.	5633.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.097%	94.464%	93.133%	93.765%
Range				

Sample Name: 480-212958-C-3-C MSD Acquired: 10/8/2023 21:38:37 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05434**	**11.228**	**.26017**	**17.794**	**.24789**
Stddev	.00023	.025	.00116	.036	.00033
%RSD	.42174	.22237	.44435	.20040	.13462
#1	.05450	11.210	.26099	17.769	.24812
#2	.05418	11.246	.25936	17.819	.24765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22444**	**317.81**	**.23075**	**-.0082**	**.23020**
Stddev	.00037	.10	.00057	.0123	.00018
%RSD	.16509	.03182	.24905	150.0	.07906
#1	.22418	317.73	.23035	-.0168	.23007
#2	.22470	317.88	.23116	.0005	.23033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22976**	**.21449**	**11.099**	**238.10**	**1.7940**
Stddev	.00100	.00046	.020	.09	.0065
%RSD	.43737	.21217	.18178	.03978	.36136
#1	.23047	.21482	11.085	238.03	1.7894
#2	.22905	.21417	11.114	238.17	1.7986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-3-C MSD Acquired: 10/8/2023 21:38:37 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.396**	**1.7945**	**4.4041**	**221.33**	**.23233**
Stddev	.042	.0043	.0072	.34	.00005
%RSD	.25451	.24089	.16416	.15368	.02193
#1	16.425	1.7976	4.3990	221.09	.23229
#2	16.366	1.7915	4.4092	221.57	.23236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5154**	**.23577**	F **522.85**	**.23553**	**.22906**
Stddev	.0032	.00207	.73	.00091	.00132
%RSD	.6193	.87634	.13906	.38773	.57446
#1	.5177	.23431	522.33	.23488	.22813
#2	.5132	.23723	523.36	.23617	.22999
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.418**	**.22585**	**1.1547**	**-.0078**	**.23341**
Stddev	.033	.00103	.0003	.0043	.00045
%RSD	.24218	.45479	.02958	55.27	.19408
#1	13.395	.22512	1.1544	-.0108	.23373
#2	13.441	.22657	1.1549	-.0047	.23309
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-3-C MSD Acquired: 10/8/2023 21:38:37 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.22201**	**.23205**	**.22432**	**.0137**
Stddev	.00187	.00080	.00048	.0012
%RSD	.84372	.34525	.21583	8.438
#1	.22069	.23261	.22466	.0145
#2	.22334	.23148	.22397	.0128
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11097.**	**11862.**	**69736.**	**5637.3**
Stddev	1.	4.	428.	7.4
%RSD	.01332	.03106	.61377	.13084
#1	11096.	11859.	69433.	5642.5
#2	11098.	11865.	70039.	5632.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.323%	93.838%	92.360%	93.911%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 21:42:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0037**	**47.902**	**.98548**	**1.0351**	**.98671**
Stddev	.0028	.150	.00324	.0009	.00099
%RSD	.28249	.31219	.32885	.08949	.10000
#1	1.0017	47.796	.98777	1.0358	.98601
#2	1.0057	48.007	.98319	1.0345	.98740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94623**	**47.670**	**.98827**	**.9963**	**.97333**
Stddev	.00191	.210	.00005	.0140	.00070
%RSD	.20231	.44064	.00480	1.408	.07209
#1	.94488	47.522	.98823	.9864	.97382
#2	.94759	47.819	.98830	1.006	.97283
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0213**	**.97949**	**47.421**	**45.994**	F **.87733**
Stddev	.0004	.00378	.076	.032	.00381
%RSD	.03623	.38564	.16014	.07006	.43378
#1	1.0210	.97682	47.367	46.017	.87464
#2	1.0215	.98216	47.475	45.971	.88003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/8/2023 21:42:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.679**	**.96342**	**1.0165**	**47.134**	**.96716**
Stddev	.044	.00116	.0006	.143	.00076
%RSD	.08914	.11998	.05791	.30338	.07831
#1	49.710	.96423	1.0161	47.033	.96662
#2	49.648	.96260	1.0170	47.235	.96769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.23**	**.98134**	**25.592**	**.99081**	**.97554**
Stddev	.00	.00176	.004	.00116	.00081
%RSD	.0032	.17929	.01480	.11692	.08272
#1	25.23	.98258	25.589	.99163	.97497
#2	25.23	.98010	25.595	.98999	.97611
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4789**	**.97441**	**.98634**	**.9718**	**.99385**
Stddev	.0382	.00199	.00115	.0159	.00051
%RSD	.40355	.20378	.11662	1.632	.05124
#1	9.4519	.97581	.98552	.9606	.99349
#2	9.5060	.97300	.98715	.9831	.99421
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 21:42:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97973**	**1.0055**	**1.0132**	**.9824**
Stddev	.00104	.0002	.0001	.0077
%RSD	.10650	.02053	.00726	.7822
#1	.98046	1.0056	1.0133	.9770
#2	.97899	1.0053	1.0132	.9878
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12089.**	**12560.**	**73505.**	**5652.2**
Stddev	6.	9.	251.	37.4
%RSD	.05087	.06882	.34167	.66129
#1	12084.	12554.	73328.	5678.7
#2	12093.	12566.	73683.	5625.8

Sample Name: CCB-7506043 Acquired: 10/8/2023 21:45:49 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00147**	**-.02313**	**-.00063**	**.01589**	**-.00001**
Stddev	.00007	.02989	.00029	.00003	.00001
%RSD	5.0356	129.27	46.564	.21606	89.971
#1	.00152	-.00199	-.00084	.01586	-.00002
#2	.00141	-.04426	-.00042	.01591	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00189**	**-.00002**	**.0060**	**-.00013**
Stddev	.00006	.00193	.00014	.0360	.00011
%RSD	101.83	102.39	589.87	599.7	85.837
#1	.00002	-.00052	.00007	-.0195	-.00005
#2	.00010	-.00325	-.00012	.0315	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00791**	**-.00120**	**.14964**	**-.00528**
Stddev	.00016	.00047	.00042	.02987	.00045
%RSD	88.069	5.9513	35.327	19.964	8.5238
#1	.00007	-.00824	-.00090	.17076	-.00496
#2	.00029	-.00757	-.00150	.12851	-.00560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 21:45:49 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**-.00001**	**.00028**	**-.01008**	**.00019**
Stddev	.00097	.00006	.00012	.00147	.00043
%RSD	70.243	415.21	41.321	14.581	222.42
#1	.00207	.00003	.00037	-.01112	-.00011
#2	.00070	-.00006	.00020	-.00904	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4192**	**-.00156**	**.05549**	**.00037**	**.00296**
Stddev	.0015	.00065	.00310	.00267	.00027
%RSD	.3489	41.442	5.5900	723.38	9.0754
#1	.4182	-.00202	.05768	.00226	.00277
#2	.4203	-.00111	.05330	-.00152	.00315
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02033**	**-.00013**	**.00009**	**-.0158**	**.00008**
Stddev	.00510	.00006	.00006	.0015	.00006
%RSD	25.077	43.629	70.781	9.611	79.090
#1	-.01672	-.00009	.00013	-.0147	.00004
#2	-.02393	-.00017	.00004	-.0168	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 21:45:49 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00040**	**-.00018**	**.0124**
Stddev	.00221	.00029	.00024	.0003
%RSD	777.80	72.948	133.81	2.640
#1	.00128	-.00020	-.00001	.0122
#2	-.00185	-.00061	-.00035	.0126
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13894.**	**13017.**	**76795.**	**5769.1**
Stddev	2.	3.	500.	12.5
%RSD	.01273	.02554	.65102	.21734
#1	13896.	13019.	76441.	5760.2
#2	13893.	13014.	77149.	5778.0

Sample Name: CCVL-7610998 Acquired: 10/8/2023 21:49:30 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00645**	**.20243**	**.01531**	F **.03244**	**.00205**
Stddev	.00002	.03737	.00104	.00045	.00001
%RSD	.37052	18.463	6.8239	1.3819	.24579
#1	.00643	.22885	.01457	.03276	.00206
#2	.00647	.17600	.01605	.03213	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.48976**	**.00206**	**.0247**	**.00366**
Stddev	.00015	.00159	.00002	.0239	.00006
%RSD	7.7138	.32498	1.1234	96.78	1.7720
#1	.00189	.48864	.00204	.0416	.00371
#2	.00211	.49089	.00208	.0078	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	F **.00431**	**.04926**	**.62239**	**.02127**
Stddev	.00010	.00048	.00045	.08989	.00132
%RSD	2.3564	11.253	.91345	14.442	6.2061
#1	.00430	.00465	.04958	.55883	.02220
#2	.00416	.00396	.04894	.68595	.02033
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 21:49:30 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20073**	**.00304**	**.01069**	**.96667**	**.00959**
Stddev	.00112	.00004	.00018	.00164	.00009
%RSD	.55939	1.3422	1.6895	.16969	.91333
#1	.19993	.00301	.01056	.96783	.00965
#2	.20152	.00307	.01082	.96551	.00953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4186**	**.00908**	**.25745**	**.02122**	**.02327**
Stddev	.0015	.00154	.00181	.00282	.00001
%RSD	.3521	17.000	.70284	13.270	.05892
#1	.4196	.01017	.25617	.01923	.02326
#2	.4175	.00799	.25873	.02321	.02328
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44381**	**.00891**	**.00501**	F **-.0325**	**.00499**
Stddev	.00679	.00020	.00003	.0143	.00054
%RSD	1.5290	2.2252	.54258	43.92	10.870
#1	.43901	.00905	.00503	-.0224	.00461
#2	.44861	.00877	.00499	-.0425	.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 21:49:30 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01863**	**.00489**	**.00992**	F **.0133**
Stddev	.00125	.00010	.00007	.0015
%RSD	6.6899	2.0398	.75374	11.09
#1	.01951	.00482	.00987	.0123
#2	.01775	.00496	.00998	.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13737.**	**12963.**	**77029.**	**5782.0**
Stddev	3.	3.	109.	60.6
%RSD	.01918	.01967	.14143	1.0486
#1	13739.	12965.	77106.	5739.1
#2	13736.	12961.	76952.	5824.8

Sample Name: 480-212958-C-4-A Acquired: 10/8/2023 21:53:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**2.1915**	**.00095**	**1.0234**	**.02506**
Stddev	.00018	.0007	.00357	.0027	.00010
%RSD	20.268	.03117	376.31	.25955	.37979
#1	.00077	2.1920	-.00158	1.0253	.02500
#2	.00103	2.1910	.00347	1.0215	.02513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**33.213**	**.00030**	**.0004**	**.00081**
Stddev	.00033	.302	.00011	.0138	.00003
%RSD	127.92	.90958	36.606	3556.	4.2450
#1	.00002	33.000	.00038	.0101	.00083
#2	.00049	33.427	.00023	-.0094	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00545**	**-.00202**	**2.7923**	**4.4674**	**-.00259**
Stddev	.00055	.00006	.0376	.0529	.00253
%RSD	10.146	3.2068	1.3469	1.1841	97.706
#1	.00584	-.00198	2.7657	4.5048	-.00438
#2	.00506	-.00207	2.8189	4.4300	-.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-4-A Acquired: 10/8/2023 21:53:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9753**	**.03551**	**.04348**	**1.7637**	**.00323**
Stddev	.0015	.00020	.00002	.0112	.00056
%RSD	.03030	.57393	.04735	.63491	17.376
#1	4.9742	.03537	.04347	1.7558	.00363
#2	4.9764	.03566	.04350	1.7716	.00284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.6709**	**.00227**	**8.8138**	**-.00144**	**.00308**
Stddev	.0013	.00064	.0000	.00041	.00491
%RSD	.1930	28.405	.00044	28.657	159.35
#1	.6719	.00181	8.8138	-.00174	-.00039
#2	.6700	.00272	8.8138	-.00115	.00655
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4829**	**.00032**	**.09742**	**-.0319**	**.02484**
Stddev	.0306	.00012	.00027	.0084	.00045
%RSD	.68175	37.073	.27682	26.26	1.8296
#1	4.4613	.00041	.09723	-.0260	.02452
#2	4.5045	.00024	.09761	-.0378	.02516
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-4-A Acquired: 10/8/2023 21:53:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00381**	**.03317**	**.0134**
Stddev	.00039	.00008	.00053	.0021
%RSD	466.32	2.0666	1.6106	15.43
#1	.00019	.00375	.03355	.0120
#2	-.00036	.00386	.03280	.0149
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13325.**	**12917.**	**75913.**	**5852.3**
Stddev	32.	39.	397.	12.1
%RSD	.24022	.30250	.52354	.20720
#1	13302.	12889.	75632.	5860.9
#2	13347.	12944.	76194.	5843.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.847%	102.18%	100.54%	97.493%
Range				

Sample Name: 480-212958-C-5-A Acquired: 10/8/2023 21:56:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**2.9067**	**.05617**	**.06670**	**.28354**
Stddev	.00035	.0135	.00083	.00019	.00147
%RSD	163.52	.46457	1.4760	.28068	.51906
#1	-.00003	2.9163	.05559	.06683	.28458
#2	.00046	2.8972	.05676	.06657	.28250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**84.825**	**.00040**	**.0068**	**.00270**
Stddev	.00003	.242	.00006	.0182	.00008
%RSD	6.9053	.28482	15.871	266.8	2.8665
#1	.00046	84.995	.00045	-.0060	.00275
#2	.00042	84.654	.00036	.0197	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00523**	**.00029**	**12.365**	**2.1262**	**-.00226**
Stddev	.00020	.00051	.021	.0054	.00281
%RSD	3.8126	178.36	.17175	.25322	124.52
#1	.00537	-.00007	12.350	2.1224	-.00027
#2	.00509	.00065	12.380	2.1300	-.00425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-5-A Acquired: 10/8/2023 21:56:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.229**	**2.4946**	**.00779**	**42.470**	**.00610**
Stddev	.186	.0108	.00003	.153	.00009
%RSD	.55884	.43255	.41833	.36005	1.5129
#1	33.360	2.5022	.00782	42.578	.00604
#2	33.098	2.4870	.00777	42.362	.00617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.290**	**.00680**	**.30108**	**.00249**	**-.00023**
Stddev	.003	.00055	.00206	.00126	.00647
%RSD	.2518	8.0617	.68261	50.726	2810.4
#1	1.287	.00641	.29963	.00159	-.00481
#2	1.292	.00718	.30254	.00338	.00435
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5438**	**.00002**	**.33154**	**-.0025**	**.03159**
Stddev	.0067	.00069	.00030	.0114	.00069
%RSD	.07854	4143.0	.09020	449.0	2.1745
#1	8.5486	-.00047	.33133	-.0106	.03207
#2	8.5391	.00050	.33176	.0055	.03110
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-5-A Acquired: 10/8/2023 21:56:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00158**	**.00744**	**.02022**	**.0151**
Stddev	.00023	.00010	.00025	.0031
%RSD	14.695	1.3862	1.2227	20.53
#1	-.00174	.00736	.02039	.0129
#2	-.00141	.00751	.02004	.0173
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12408.**	**12604.**	**74369.**	**5768.1**
Stddev	13.	3.	302.	21.7
%RSD	.10450	.02467	.40566	.37679
#1	12398.	12602.	74156.	5752.8
#2	12417.	12606.	74583.	5783.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.044%	99.706%	98.496%	96.090%
Range				

Sample Name: 480-212958-C-6-A Acquired: 10/8/2023 22:00:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02316**	**.00196**	**.09745**	**.10025**
Stddev	.00043	.05750	.00190	.00008	.00025
%RSD	241.99	248.30	96.908	.08287	.25001
#1	.00013	.06381	.00062	.09751	.10007
#2	-.00048	-.01750	.00330	.09740	.10042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**47.203**	**.00038**	**-.0074**	**-.00001**
Stddev	.00012	.153	.00015	.0641	.00018
%RSD	62.170	.32352	39.367	868.3	2490.1
#1	.00029	47.095	.00049	-.0527	.00012
#2	.00011	47.311	.00028	.0379	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**-.00387**	**.04099**	**1.2350**	**-.00355**
Stddev	.00046	.00042	.00052	.0432	.00052
%RSD	63.025	10.909	1.2653	3.4937	14.751
#1	.00040	-.00357	.04062	1.2655	-.00318
#2	.00105	-.00416	.04136	1.2045	-.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-6-A Acquired: 10/8/2023 22:00:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.089**	**.75744**	**.01097**	**27.838**	**.00161**
Stddev	.017	.00049	.00017	.063	.00003
%RSD	.07498	.06404	1.5773	.22567	1.6375
#1	22.077	.75778	.01109	27.794	.00163
#2	22.101	.75710	.01084	27.883	.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4430**	**-.00001**	**.95401**	**-.00008**	**-.00102**
Stddev	.0019	.00030	.00215	.00041	.00073
%RSD	.4366	3034.1	.22515	536.66	71.937
#1	.4416	.00020	.95553	-.00037	-.00050
#2	.4444	-.00022	.95249	.00022	-.00153
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4662**	**.00025**	**.29271**	**-.0320**	**.00068**
Stddev	.0468	.00031	.00047	.0052	.00032
%RSD	.85601	122.96	.16179	16.28	47.414
#1	5.4331	.00047	.29238	-.0283	.00045
#2	5.4992	.00003	.29305	-.0357	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-6-A Acquired: 10/8/2023 22:00:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00048**	**.00511**	**.0125**
Stddev	.00038	.00016	.00013	.0001
%RSD	5061.4	32.819	2.5274	.9314
#1	-.00027	-.00037	.00501	.0126
#2	.00026	-.00060	.00520	.0124
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13028.**	**12844.**	**75358.**	**5760.9**
Stddev	39.	32.	72.	11.9
%RSD	.29813	.24986	.09534	.20615
#1	13001.	12822.	75307.	5769.3
#2	13056.	12867.	75409.	5752.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.648%	101.61%	99.806%	95.970%
Range				

Sample Name: 480-212958-C-7-A Acquired: 10/8/2023 22:04:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**.17275**	**.00439**	**15.321**	**.05881**
Stddev	.00066	.00277	.00060	.019	.00004
%RSD	77.725	1.6022	13.787	.12487	.06540
#1	.00133	.17471	.00481	15.308	.05878
#2	.00039	.17080	.00396	15.335	.05884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**141.92**	**.00002**	**.0336**	**-.00042**
Stddev	.00012	.19	.00012	.0255	.00005
%RSD	62.576	.13453	583.28	75.97	12.870
#1	.00011	142.05	-.00006	.0156	-.00038
#2	.00028	141.78	.00010	.0517	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**-.00435**	**.23940**	**2.9992**	**.01416**
Stddev	.00029	.00200	.00131	.0121	.00040
%RSD	29.847	45.897	.54556	.40260	2.8161
#1	.00117	-.00576	.23848	2.9906	.01445
#2	.00076	-.00294	.24033	3.0077	.01388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-7-A Acquired: 10/8/2023 22:04:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.523**	**.05459**	**.67223**	**12.306**	**.00078**
Stddev	.001	.00006	.00043	.018	.00001
%RSD	.00377	.11371	.06375	.14465	1.4678
#1	29.524	.05464	.67192	12.318	.00077
#2	29.522	.05455	.67253	12.293	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5404**	**.00292**	F **97.750**	**-.00404**	**-.00134**
Stddev	.0021	.00137	.086	.00011	.00301
%RSD	.3836	46.976	.08796	2.7153	224.21
#1	.5389	.00195	97.689	-.00412	-.00347
#2	.5419	.00390	97.811	-.00397	.00078
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3739**	**.00034**	**.16667**	**-.0238**	**.00319**
Stddev	.0099	.00019	.00023	.0137	.00055
%RSD	.11786	54.385	.13606	57.64	17.313
#1	8.3669	.00048	.16683	-.0334	.00358
#2	8.3809	.00021	.16651	-.0141	.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-7-A Acquired: 10/8/2023 22:04:13 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00067**	**.00010**	**.00459**	**.0144**
Stddev	.00186	.00029	.00006	.0008
%RSD	278.64	291.01	1.3454	5.685
#1	-.00065	-.00011	.00463	.0139
#2	.00199	.00030	.00455	.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12518.**	**12406.**	**73795.**	**5726.3**
Stddev	3.	5.	118.	20.1
%RSD	.02607	.03971	.15940	.35150
#1	12515.	12410.	73712.	5740.6
#2	12520.	12403.	73878.	5712.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.859%	98.144%	97.735%	95.393%
Range				

Sample Name: 480-212958-C-8-A Acquired: 10/8/2023 22:07:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**.16704**	**.00423**	**15.693**	**.05966**
Stddev	.00012	.03910	.00115	.019	.00008
%RSD	9.4925	23.410	27.271	.12258	.13387
#1	.00131	.13939	.00341	15.706	.05961
#2	.00115	.19469	.00504	15.679	.05972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**145.79**	**.00011**	**.0637**	**-.00059**
Stddev	.00002	.30	.00019	.0302	.00015
%RSD	7.8283	.20525	162.87	47.35	25.265
#1	.00018	146.01	-.00002	.0424	-.00048
#2	.00021	145.58	.00025	.0851	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**-.00381**	**.18463**	**3.1355**	**.01552**
Stddev	.00003	.00091	.00049	.0019	.00272
%RSD	2.6129	23.765	.26767	.05888	17.537
#1	.00122	-.00317	.18429	3.1342	.01745
#2	.00118	-.00445	.18498	3.1368	.01360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-8-A Acquired: 10/8/2023 22:07:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.953**	**.05523**	**.68963**	**12.488**	**.00081**
Stddev	.032	.00008	.00136	.022	.00005
%RSD	.10782	.13867	.19778	.17662	6.3696
#1	29.976	.05517	.69060	12.504	.00085
#2	29.930	.05528	.68867	12.473	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5377**	**.00345**	F **100.14**	**-.00485**	**-.00231**
Stddev	.0011	.00092	.14	.00231	.00080
%RSD	.2107	26.788	.14473	47.716	34.683
#1	.5385	.00411	100.24	-.00321	-.00175
#2	.5369	.00280	100.04	-.00649	-.00288
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5694**	**.00025**	**.17136**	**-.0336**	**.00273**
Stddev	.0768	.00040	.00054	.0036	.00011
%RSD	.89590	157.79	.31585	10.75	4.1379
#1	8.6237	-.00003	.17098	-.0361	.00265
#2	8.5151	.00054	.17174	-.0310	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-8-A Acquired: 10/8/2023 22:07:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00172**	**.00014**	**.01200**	**.0103**
Stddev	.00042	.00026	.00031	.0031
%RSD	24.402	187.86	2.5899	30.20
#1	-.00142	-.00004	.01222	.0125
#2	-.00201	.00032	.01178	.0081
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12485.**	**12379.**	**73891.**	**5721.5**
Stddev	17.	19.	178.	31.8
%RSD	.13553	.15648	.24105	.55602
#1	12473.	12365.	73765.	5744.0
#2	12497.	12392.	74017.	5699.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.618%	97.925%	97.863%	95.313%
Range				

Sample Name: 480-212958-C-9-A Acquired: 10/8/2023 22:11:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.03416**	**-.00133**	**.02197**	**.00002**
Stddev	.00010	.01567	.00114	.00152	.00003
%RSD	11.569	45.881	85.768	6.9208	130.89
#1	.00078	.02308	-.00052	.02304	.00004
#2	.00092	.04524	-.00214	.02089	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00365**	**.00025**	**-.0114**	**-.00016**
Stddev	.00001	.00605	.00015	.0177	.00013
%RSD	6.2729	165.57	58.130	155.0	77.568
#1	.00019	-.00062	.00036	.0011	-.00026
#2	.00021	.00793	.00015	-.0240	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**-.00752**	**.00389**	**.16441**	**-.00213**
Stddev	.00020	.00023	.00025	.00470	.00085
%RSD	21.815	3.1139	6.5122	2.8602	40.156
#1	.00077	-.00735	.00407	.16774	-.00152
#2	.00105	-.00768	.00371	.16109	-.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-9-A Acquired: 10/8/2023 22:11:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00145**	**.00029**	**.00017**	**.11525**	**-.00003**
Stddev	.00197	.00002	.00001	.00276	.00007
%RSD	135.49	7.7241	7.6408	2.3933	231.37
#1	-.00285	.00028	.00018	.11720	.00002
#2	-.00006	.00031	.00016	.11330	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4189**	**-.00127**	**.05034**	**.00076**	**.00213**
Stddev	.0012	.00047	.00255	.00168	.00171
%RSD	.2784	37.115	5.0718	220.94	80.179
#1	.4197	-.00093	.05215	-.00043	.00092
#2	.4180	-.00160	.04854	.00195	.00334
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02056**	**-.00039**	**.00001**	**-.0224**	**.00006**
Stddev	.01745	.00064	.00004	.0203	.00026
%RSD	84.848	166.19	603.87	90.60	456.19
#1	-.00823	.00007	-.00002	-.0080	-.00013
#2	-.03290	-.00084	.00003	-.0367	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-9-A Acquired: 10/8/2023 22:11:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00150**	**.00019**	**.00011**	**.0110**
Stddev	.00014	.00011	.00008	.0005
%RSD	9.4002	58.264	74.952	4.233
#1	-.00140	.00027	.00017	.0113
#2	-.00160	.00011	.00005	.0107
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13783.**	**12989.**	**77259.**	**5833.8**
Stddev	71.	63.	96.	8.0
%RSD	.51665	.48394	.12395	.13663
#1	13733.	12944.	77326.	5828.2
#2	13834.	13033.	77191.	5839.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.25%	102.75%	102.32%	97.184%
Range				

Sample Name: 480-212958-C-10-A Acquired: 10/8/2023 22:15:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.09054**	**-.00080**	**.01523**	**.00003**
Stddev	.00043	.00830	.00032	.00006	.00002
%RSD	43.090	9.1633	39.801	.40605	51.943
#1	.00070	.09640	-.00058	.01528	.00005
#2	.00132	.08467	-.00103	.01519	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00853**	**.00011**	**.0052**	**-.00016**
Stddev	.00000	.00494	.00009	.0470	.00011
%RSD	.35716	57.893	83.044	896.0	70.489
#1	.00018	.00504	.00018	-.0280	-.00024
#2	.00018	.01202	.00005	.0384	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00510**	**.00454**	**.12380**	**-.00210**
Stddev	.00037	.00200	.00030	.00201	.00145
%RSD	50.432	39.231	6.5825	1.6230	69.096
#1	.00048	-.00651	.00476	.12238	-.00313
#2	.00101	-.00368	.00433	.12522	-.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-10-A Acquired: 10/8/2023 22:15:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00613**	**.00033**	**.00012**	**1.2251**	**.00022**
Stddev	.00070	.00003	.00028	.0124	.00029
%RSD	11.499	9.8737	224.19	1.0152	134.56
#1	.00663	.00036	.00032	1.2163	.00043
#2	.00563	.00031	-.00007	1.2339	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4179**	**-.00112**	**.05037**	**.00067**	**.00060**
Stddev	.0017	.00047	.00062	.00242	.00045
%RSD	.4043	42.023	1.2214	361.47	74.613
#1	.4167	-.00079	.05081	-.00104	.00028
#2	.4191	-.00145	.04994	.00238	.00092
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01108**	**.00020**	**.00003**	**-.0193**	**.00013**
Stddev	.00050	.00031	.00027	.0046	.00004
%RSD	4.5435	151.22	849.41	23.98	27.326
#1	-.01144	-.00001	-.00016	-.0160	.00015
#2	-.01073	.00042	.00023	-.0226	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212958-C-10-A Acquired: 10/8/2023 22:15:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00102**	**.00009**	**.00213**	**.0109**
Stddev	.00067	.00004	.00029	.0034
%RSD	66.065	47.908	13.726	30.71
#1	-.00150	.00006	.00192	.0133
#2	-.00054	.00012	.00233	.0086
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13748.**	**12967.**	**77492.**	**5817.6**
Stddev	34.	36.	268.	5.6
%RSD	.24568	.27566	.34576	.09685
#1	13724.	12941.	77303.	5821.5
#2	13772.	12992.	77682.	5813.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.99%	102.58%	102.63%	96.913%
Range				

Sample Name: 480-212988-D-1-A Acquired: 10/8/2023 22:18:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.04076**	**-.00076**	**.21117**	**.08904**
Stddev	.00035	.03354	.00073	.00171	.00014
%RSD	110.89	82.288	95.952	.80973	.15925
#1	.00007	.06448	-.00024	.20996	.08894
#2	.00056	.01704	-.00128	.21238	.08914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**29.593**	**.00015**	**-.0339**	**-.00011**
Stddev	.00002	.103	.00016	.0359	.00013
%RSD	14.224	.34753	108.68	106.0	116.46
#1	.00015	29.520	.00003	-.0592	-.00020
#2	.00013	29.666	.00026	-.0085	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**-.00293**	**.09008**	**3.8986**	**.10968**
Stddev	.00020	.00095	.00485	.0216	.00057
%RSD	20.055	32.590	5.3816	.55516	.52252
#1	.00115	-.00225	.09351	3.9139	.11008
#2	.00086	-.00360	.08665	3.8833	.10927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212988-D-1-A Acquired: 10/8/2023 22:18:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8563**	**.04697**	**-.00000**	**113.43**	**-.00027**
Stddev	.0034	.00003	.00007	.14	.00047
%RSD	.04373	.06111	1584.4	.12625	174.06
#1	7.8587	.04695	.00005	113.53	-.00060
#2	7.8539	.04699	-.00006	113.33	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4250**	**-.00020**	**.17597**	**-.00241**	**.00081**
Stddev	.0002	.00009	.00032	.00002	.00099
%RSD	.0402	44.044	.18122	.75852	121.66
#1	.4252	-.00014	.17620	-.00242	.00011
#2	.4249	-.00026	.17575	-.00240	.00151
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3319**	**-.00025**	**.42124**	**-.0080**	**.00016**
Stddev	.0087	.00018	.00126	.0018	.00000
%RSD	.13805	71.216	.29997	22.46	1.1242
#1	6.3257	-.00038	.42035	-.0067	.00016
#2	6.3380	-.00012	.42214	-.0092	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212988-D-1-A Acquired: 10/8/2023 22:18:52 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00028**	**.00081**	**.0115**
Stddev	.00123	.00009	.00001	.0013
%RSD	213.60	30.899	.74084	11.14
#1	-.00144	-.00035	.00080	.0125
#2	.00029	-.00022	.00081	.0106
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12500.**	**12599.**	**74573.**	**5706.5**
Stddev	50.	57.	132.	14.4
%RSD	.39878	.45313	.17682	.25316
#1	12536.	12639.	74480.	5696.3
#2	12465.	12558.	74667.	5716.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.731%	99.665%	98.766%	95.063%
Range				

Sample Name: 480-212976-O-1-A Acquired: 10/8/2023 22:22:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00372**	**115.56**	**.07562**	**.31518**	**.70453**
Stddev	.00173	.47	.00135	.00017	.00094
%RSD	46.471	.40513	1.7847	.05256	.13400
#1	.00494	115.90	.07467	.31529	.70520
#2	.00250	115.23	.07657	.31506	.70387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
IS Ref	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.69818**	**.00651**	**883.44**	**.00872**	**.3116**
Stddev	.00921	.00010	17.78	.00008	.0609
%RSD	1.3193	1.5315	2.0128	.96453	19.53
#1	.69167	.00658	896.01	.00866	.3546
#2	.70470	.00644	870.86	.00878	.2686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Co2286	Cr2677	Cu3273	Fe2714	K_7664
Line	228.616 {447}	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09118**	**.28819**	**.50996**	**190.60**	**26.574**
Stddev	.00011	.00210	.00263	1.01	.067
%RSD	.12128	.72878	.51514	.53179	.25287
#1	.09111	.28670	.50810	191.32	26.526
#2	.09126	.28967	.51182	189.88	26.621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212976-O-1-A Acquired: 10/8/2023 22:22:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18285**	**80.945**	**2.9640**	**.05254**	**408.15**
Stddev	.00080	.335	.0162	.00029	.67
%RSD	.43578	.41411	.54796	.55840	.16354
#1	.18228	80.708	2.9754	.05233	408.62
#2	.18341	81.182	2.9525	.05274	407.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Line	231.604 {446}	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}
IS Ref	(In2306)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37985**	**4.396**	**.63175**	**63.250**	**.03206**
Stddev	.00143	.001	.00183	.046	.00117
%RSD	.37553	.0169	.29010	.07252	3.6458
#1	.38086	4.396	.63046	63.282	.03124
#2	.37884	4.397	.63305	63.217	.03289
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01229**	F **75.631**	**.04840**	**1.2077**	**.1690**
Stddev	.00208	.021	.00051	.0021	.0027
%RSD	16.891	.02773	1.0609	.17703	1.619
#1	.01375	75.645	.04876	1.2092	.1709
#2	.01082	75.616	.04803	1.2062	.1671
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
High Limit		45.000			
Low Limit		-.50000			

Sample Name: 480-212976-O-1-A Acquired: 10/8/2023 22:22:32 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	TI1908	V_2924	Zn2062	Zr3438
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0727**	**-.00109**	**.25953**	**5.5820**	**.0239**
Stddev	.0015	.00086	.00148	.0120	.0003
%RSD	.13747	78.651	.56975	.21504	1.096
#1	1.0716	-.00170	.25849	5.5735	.0241
#2	1.0737	-.00049	.26058	5.5904	.0237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10178.**	**13012.**	**75014.**	**6266.1**
Stddev	11.	4.	37.	35.2
%RSD	.11034	.03071	.04975	.56158
#1	10170.	13009.	75041.	6241.2
#2	10186.	13015.	74988.	6290.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.505%	102.94%	99.350%	104.38%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 22:26:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0152**	**47.279**	**.96189**	**.99250**	**.97795**
Stddev	.0419	.264	.00246	.00160	.00925
%RSD	4.1281	.55773	.25590	.16093	.94545
#1	1.0448	47.466	.96015	.99137	.98449
#2	.98554	47.093	.96363	.99363	.97141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93597**	**47.113**	**.96029**	**.9317**	**.94638**
Stddev	.00936	.341	.00073	.0166	.00010
%RSD	.99980	.72355	.07597	1.779	.01064
#1	.94258	47.354	.95977	.9435	.94645
#2	.92935	46.871	.96081	.9200	.94630
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0268**	**.98323**	**46.621**	**45.679**	F **.86670**
Stddev	.0423	.04388	.226	.505	.01009
%RSD	4.1210	4.4630	.48538	1.1066	1.1636
#1	1.0567	1.0143	46.781	46.037	.87383
#2	.99684	.95221	46.461	45.322	.85957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/8/2023 22:26:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.325**	**.97172**	**.98810**	**46.687**	**.94206**
Stddev	2.095	.04107	.00251	.489	.00140
%RSD	4.1623	4.2264	.25420	1.0465	.14869
#1	51.806	1.0008	.98632	47.033	.94305
#2	48.844	.94268	.98987	46.342	.94107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.51**	**.95503**	**24.871**	**.96352**	**.95261**
Stddev	.04	.00195	.051	.00159	.00133
%RSD	.1828	.20392	.20576	.16507	.13985
#1	24.48	.95640	24.835	.96239	.95167
#2	24.54	.95365	24.907	.96464	.95356
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5259**	**.94988**	**.97751**	**.9592**	**.99874**
Stddev	.0483	.00269	.00814	.0038	.04243
%RSD	.50648	.28357	.83308	.3983	4.2482
#1	9.5600	.94798	.98327	.9619	1.0287
#2	9.4918	.95178	.97175	.9565	.96874
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 22:26:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.95729**	**1.0120**	**1.0271**	**.9743**
Stddev	.00165	.0438	.0419	.0140
%RSD	.17188	4.3236	4.0767	1.440
#1	.95613	1.0430	1.0567	.9842
#2	.95845	.98110	.99752	.9643
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12367.**	**12849.**	**72699.**	**5723.2**
Stddev	19.	7.	1862.	32.2
%RSD	.15004	.05139	2.5609	.56335
#1	12354.	12844.	71382.	5700.4
#2	12380.	12854.	74015.	5746.0

Sample Name: CCB-7506043 Acquired: 10/8/2023 22:30:01 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.01379**	**-.00083**	**.00772**	**-.00001**
Stddev	.00024	.00584	.00098	.00020	.00003
%RSD	41.861	42.353	118.98	2.5570	210.81
#1	.00041	.01792	-.00013	.00786	.00001
#2	.00075	.00966	-.00152	.00758	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00629**	**.00001**	**.0153**	**-.00010**
Stddev	.00001	.00251	.00020	.0120	.00012
%RSD	31.140	39.985	1530.0	78.64	117.01
#1	.00003	-.00451	.00016	.0237	-.00018
#2	.00004	-.00806	-.00013	.0068	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00492**	**.00069**	**.10212**	**-.00415**
Stddev	.00049	.00055	.00663	.03085	.00254
%RSD	268.93	11.168	958.05	30.211	61.155
#1	.00016	-.00453	.00538	.12394	-.00594
#2	-.00053	-.00531	-.00400	.08031	-.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 22:30:01 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.00001**	**.00000**	**-.02514**	**-.00038**
Stddev	.00146	.00003	.00012	.00557	.00028
%RSD	123.65	213.68	3450.7	22.141	72.709
#1	-.00015	-.00004	-.00008	-.02120	-.00058
#2	-.00221	.00001	.00009	-.02908	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4193**	**-.00216**	**.01778**	**.00079**	**-.00379**
Stddev	.0006	.00005	.00215	.00020	.00024
%RSD	.1496	2.1141	12.074	25.424	6.3732
#1	.4189	-.00219	.01930	.00064	-.00362
#2	.4198	-.00212	.01626	.00093	-.00396
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00504**	**-.00013**	**-.00013**	**-.0417**	**.00033**
Stddev	.01351	.00058	.00012	.0164	.00016
%RSD	268.26	442.20	87.954	39.37	47.577
#1	.01459	.00028	-.00021	-.0533	.00022
#2	-.00452	-.00054	-.00005	-.0301	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 22:30:01 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00015**	**-.00046**	**.0124**
Stddev	.00129	.00002	.00002	.0003
%RSD	229.75	15.357	3.9014	2.397
#1	.00035	.00013	-.00044	.0126
#2	-.00147	.00016	-.00047	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13831.**	**12973.**	**77643.**	**5764.5**
Stddev	30.	11.	534.	45.1
%RSD	.21782	.08207	.68729	.78295
#1	13852.	12980.	78020.	5796.4
#2	13809.	12965.	77265.	5732.5

Sample Name: CCVL-7610998 Acquired: 10/8/2023 22:33:43 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00655**	**.18890**	**.01346**	W **.02673**	**.00205**
Stddev	.00056	.01657	.00004	.00004	.00005
%RSD	8.5009	8.7728	.33152	.14518	2.2684
#1	.00695	.17719	.01349	.02670	.00201
#2	.00616	.20062	.01343	.02675	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.48762**	**.00209**	**-.0139**	**.00378**
Stddev	.00003	.00620	.00008	.0023	.00019
%RSD	1.5830	1.2715	3.8354	16.82	4.9049
#1	.00198	.49201	.00204	-.0156	.00365
#2	.00194	.48324	.00215	-.0122	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00460**	F **.00331**	**.04959**	**.62113**	**.02139**
Stddev	.00007	.00099	.00079	.01016	.00238
%RSD	1.4284	30.047	1.5983	1.6356	11.142
#1	.00465	.00401	.05015	.62831	.01971
#2	.00456	.00261	.04903	.61395	.02308
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 22:33:43 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20215**	**.00303**	**.01070**	**.96156**	**.00947**
Stddev	.00058	.00001	.00033	.01803	.00001
%RSD	.28853	.26901	3.1075	1.8755	.05655
#1	.20174	.00303	.01093	.97431	.00947
#2	.20256	.00304	.01046	.94881	.00946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4198**	**.00888**	**.22634**	**.02100**	**.02177**
Stddev	.0013	.00028	.00243	.00213	.00159
%RSD	.3114	3.1865	1.0744	10.127	7.2800
#1	.4189	.00868	.22462	.02250	.02289
#2	.4207	.00908	.22806	.01949	.02065
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45479**	**.00963**	**.00503**	F **-.0268**	**.00495**
Stddev	.00095	.00021	.00000	.0054	.00011
%RSD	.20848	2.1562	.02323	20.19	2.1284
#1	.45546	.00949	.00503	-.0306	.00487
#2	.45412	.00978	.00503	-.0229	.00502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 22:33:43 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01915**	**.00522**	**.01022**	F **.0108**
Stddev	.00008	.00040	.00001	.0038
%RSD	.40771	7.6894	.11261	34.89
#1	.01909	.00550	.01022	.0134
#2	.01920	.00493	.01023	.0081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13739.**	**12987.**	**76683.**	**5793.2**
Stddev	25.	33.	511.	55.3
%RSD	.17961	.25547	.66585	.95411
#1	13722.	12964.	77044.	5754.1
#2	13757.	13011.	76322.	5832.2

Sample Name: 480-212977-B-1-A Acquired: 10/8/2023 22:37:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**.03369**	**.00140**	**.11682**	**.23422**
Stddev	.00088	.00274	.00025	.00010	.00130
%RSD	78.208	8.1219	17.950	.08815	.55472
#1	.00050	.03175	.00122	.11675	.23514
#2	.00175	.03562	.00158	.11690	.23330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**105.26**	**.00032**	**-.0219**	**-.00002**
Stddev	.00005	.65	.00014	.0382	.00015
%RSD	43.842	.62101	41.846	174.2	967.19
#1	.00009	105.72	.00042	-.0489	.00009
#2	.00016	104.80	.00023	.0051	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**-.00140**	**3.5315**	**4.7470**	**.00230**
Stddev	.00017	.00068	.0041	.0367	.00091
%RSD	19.215	48.591	.11489	.77344	39.505
#1	.00077	-.00188	3.5344	4.7211	.00294
#2	.00102	-.00092	3.5286	4.7730	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212977-B-1-A Acquired: 10/8/2023 22:37:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.348**	**.50217**	**.00038**	**152.02**	**.00081**
Stddev	.150	.00180	.00004	1.03	.00019
%RSD	.67243	.35841	9.4119	.67837	23.409
#1	22.454	.50345	.00035	152.75	.00094
#2	22.242	.50090	.00040	151.29	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5223**	**.00131**	**4.0632**	**.00022**	**.00050**
Stddev	.0039	.00041	.0092	.00028	.00276
%RSD	.7463	31.608	.22645	126.31	553.53
#1	.5195	.00102	4.0697	.00041	.00245
#2	.5250	.00160	4.0567	.00002	-.00146
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6451**	**.00021**	**.67875**	**-.0302**	**.00100**
Stddev	.0157	.00044	.00608	.0091	.00028
%RSD	.27826	204.56	.89535	30.23	27.581
#1	5.6562	.00052	.68305	-.0367	.00081
#2	5.6340	-.00010	.67445	-.0238	.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212977-B-1-A Acquired: 10/8/2023 22:37:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00027**	**.00814**	**.0106**
Stddev	.00017	.00013	.00036	.0027
%RSD	24.332	49.159	4.4843	25.89
#1	.00057	.00018	.00839	.0125
#2	.00081	.00037	.00788	.0087
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12044.**	**12325.**	**72858.**	**5738.1**
Stddev	8.	4.	666.	75.8
%RSD	.06316	.02871	.91452	1.3215
#1	12050.	12327.	72387.	5684.5
#2	12039.	12322.	73329.	5791.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.347%	97.497%	96.495%	95.589%
Range				

Sample Name: 480-212937-F-1-A Acquired: 10/8/2023 22:41:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00319**	**.51069**	**.09040**	F **139.95**	**.47843**
Stddev	.00085	.02937	.00252	.90	.00168
%RSD	26.607	5.7514	2.7872	.64323	.35094
#1	.00379	.53146	.09218	140.59	.47725
#2	.00259	.48992	.08861	139.31	.47962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**44.509**	**-.00046**	**.0183**	**.03010**
Stddev	.00002	.158	.00031	.0458	.00012
%RSD	6.3774	.35492	66.441	251.0	.38895
#1	.00035	44.621	-.00024	-.0141	.03018
#2	.00038	44.397	-.00068	.0507	.03002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16028**	**.00411**	**4.9686**	**247.43**	**.11579**
Stddev	.00049	.00097	.0095	.42	.00232
%RSD	.30827	23.549	.19171	.16861	2.0001
#1	.15993	.00342	4.9754	247.72	.11743
#2	.16063	.00479	4.9619	247.13	.11416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212937-F-1-A Acquired: 10/8/2023 22:41:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.392**	**.18069**	**.04907**	F **2729.0**	**.39141**
Stddev	.422	.00042	.00009	9.2	.00118
%RSD	.46726	.22983	.18004	.33668	.30252
#1	90.093	.18039	.04901	2735.5	.39058
#2	90.690	.18098	.04914	2722.5	.39225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.732**	**.00514**	**40.881**	**.00895**	**-.00165**
Stddev	.010	.00037	.026	.00326	.00098
%RSD	.1256	7.1972	.06278	36.432	59.273
#1	7.739	.00540	40.899	.00665	-.00234
#2	7.725	.00488	40.862	.01126	-.00096
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.389**	**.01672**	**.54551**	**-.0285**	**.27283**
Stddev	.166	.00003	.00096	.0160	.00129
%RSD	1.0786	.18882	.17689	56.08	.47427
#1	15.506	.01675	.54619	-.0397	.27192
#2	15.272	.01670	.54482	-.0172	.27375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212937-F-1-A Acquired: 10/8/2023 22:41:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00090**	**.07713**	**.04280**	**.4761**
Stddev	.00063	.00010	.00051	.0004
%RSD	70.092	.12970	1.1853	.0880
#1	.00135	.07720	.04244	.4764
#2	.00046	.07706	.04315	.4758
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9775.5**	**11038.**	**63214.**	**5567.2**
Stddev	3.3	10.	222.	.4
%RSD	.03391	.08649	.35072	.00705
#1	9773.1	11031.	63370.	5567.4
#2	9777.8	11045.	63057.	5566.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.517%	87.318%	83.721%	92.742%
Range				

Sample Name: 620-14074-B-1-A Acquired: 10/8/2023 22:44:53 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**244.66**	**.04230**	**.11679**	**.07349**
Stddev	.00016	.49	.00092	.00607	.00353
%RSD	48.932	.19861	2.1742	5.1975	4.8030
#1	.00021	244.31	.04295	.12108	.07598
#2	.00044	245.00	.04165	.11250	.07099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**14.113**	**.00051**	**.0504**	**.00722**
Stddev	.00005	.053	.00003	.0105	.00008
%RSD	5.3024	.37613	4.9600	20.86	1.0539
#1	.00091	14.076	.00049	.0430	.00716
#2	.00098	14.151	.00053	.0578	.00727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40731**	**.04933**	**42.675**	**3.7167**	**-.00156**
Stddev	.01987	.00383	.140	.0246	.00021
%RSD	4.8783	7.7691	.32716	.66094	13.248
#1	.42136	.05204	42.576	3.6993	-.00170
#2	.39326	.04662	42.774	3.7341	-.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14074-B-1-A Acquired: 10/8/2023 22:44:53 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0258**	**1.7943**	**.00428**	**65.659**	**.01812**
Stddev	.1444	.0840	.00002	.298	.00034
%RSD	4.7717	4.6796	.42173	.45373	1.8733
#1	3.1279	1.8537	.00427	65.869	.01836
#2	2.9237	1.7350	.00429	65.448	.01788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.098**	**.03541**	**27.870**	**-.00764**	**.00053**
Stddev	.008	.00139	.012	.00006	.00035
%RSD	.2584	3.9365	.04399	.74964	66.620
#1	3.104	.03443	27.879	-.00768	.00078
#2	3.093	.03640	27.862	-.00760	.00028
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.052**	**.00334**	**.10388**	**.0383**	**.40428**
Stddev	.026	.00013	.00032	.0300	.01768
%RSD	.18546	3.9259	.31194	78.25	4.3726
#1	14.070	.00325	.10365	.0595	.41678
#2	14.034	.00343	.10411	.0171	.39178
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-14074-B-1-A Acquired: 10/8/2023 22:44:53 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00133**	**.10450**	**.08012**	**.0411**
Stddev	.00142	.00474	.00389	.0012
%RSD	106.75	4.5402	4.8510	2.980
#1	-.00234	.10786	.08287	.0419
#2	-.00033	.10115	.07737	.0402
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12489.**	**13252.**	**74450.**	**5961.5**
Stddev	12.	12.	2515.	22.1
%RSD	.09949	.08844	3.3782	.36995
#1	12480.	13243.	72672.	5945.9
#2	12498.	13260.	76228.	5977.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.646%	104.83%	98.603%	99.311%
Range				

Sample Name: rinse Acquired: 10/8/2023 22:48:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.00592**	**.00062**	**.05987**	**.00000**
Stddev	.00015	.00140	.00086	.00235	.00003
%RSD	19.467	23.688	137.91	3.9319	608.82
#1	.00087	.00691	.00002	.06154	.00003
#2	.00066	.00493	.00123	.05821	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00485**	**-.00000**	**.0109**	**-.00009**
Stddev	.00004	.00064	.00011	.0270	.00008
%RSD	22.890	13.180	3113.8	247.1	86.000
#1	.00021	-.00440	.00007	.0300	-.00004
#2	.00015	-.00531	-.00008	-.0081	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00668**	**-.00165**	**.24377**	**-.00295**
Stddev	.00000	.00095	.00183	.00161	.00402
%RSD	.37056	14.249	111.18	.66168	136.26
#1	-.00022	-.00601	-.00294	.24491	-.00580
#2	-.00022	-.00735	-.00035	.24263	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 22:48:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.00005**	**.00007**	**.12038**	**.00005**
Stddev	.00143	.00002	.00021	.00086	.00010
%RSD	182.44	41.555	301.30	.71073	195.28
#1	.00023	-.00003	-.00008	.12098	-.00002
#2	-.00180	-.00006	.00022	.11977	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4171**	**-.00145**	**.01489**	**.00055**	**.00100**
Stddev	.0006	.00037	.00033	.00168	.00098
%RSD	.1398	25.141	2.2309	304.88	98.171
#1	.4175	-.00119	.01512	-.00064	.00169
#2	.4167	-.00171	.01465	.00174	.00031
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**-.00012**	**.00010**	**-.0132**	**.00027**
Stddev	.00763	.00029	.00010	.0279	.00014
%RSD	950.65	250.11	104.43	212.1	51.413
#1	-.00620	.00009	.00003	.0066	.00017
#2	.00459	-.00032	.00017	-.0329	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 22:48:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00044**	**-.00016**	**.0107**
Stddev	.00117	.00027	.00027	.0011
%RSD	165.05	60.739	173.24	10.16
#1	-.00154	.00063	-.00035	.0099
#2	.00012	.00025	.00004	.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13950.**	**13083.**	**77307.**	**5792.4**
Stddev	17.	28.	181.	31.9
%RSD	.12415	.21444	.23445	.55111
#1	13938.	13063.	77179.	5769.9
#2	13962.	13102.	77435.	5815.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.49%	103.49%	102.39%	96.495%
Range				

Sample Name: MB 480-685465/1-A Acquired: 10/8/2023 22:52:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**-.02591**	**-.00050**	F **.04600**	**.00002**
Stddev	.00044	.00091	.00043	.00097	.00001
%RSD	38.334	3.5250	86.047	2.1065	50.469
#1	.00083	-.02655	-.00020	.04668	.00001
#2	.00145	-.02526	-.00081	.04531	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00345**	**.00015**	**.0173**	**.00002**
Stddev	.00003	.00007	.00004	.0262	.00006
%RSD	20.746	2.1738	28.840	151.8	300.43
#1	.00011	.00350	.00012	-.0013	-.00002
#2	.00014	.00340	.00019	.0358	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	F **-.00553**	**.00014**	**.18013**	**-.00415**
Stddev	.00004	.00033	.00201	.04440	.00041
%RSD	64.794	5.9833	1417.3	24.651	9.9358
#1	-.00003	-.00577	.00156	.21153	-.00386
#2	-.00008	-.00530	-.00128	.14873	-.00444
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.00400			

Sample Name: MB 480-685465/1-A Acquired: 10/8/2023 22:52:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**.00064**	**.00011**	**.05728**	**-.00003**
Stddev	.00185	.00000	.00010	.00623	.00025
%RSD	79.337	.60171	96.243	10.875	863.60
#1	.00364	.00064	.00003	.06169	.00015
#2	.00102	.00064	.00018	.05288	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4183**	**-.00137**	**-.01518**	**-.00067**	**.00068**
Stddev	.0007	.00075	.00333	.00073	.00235
%RSD	.1632	54.610	21.940	110.32	343.42
#1	.4188	-.00190	-.01283	-.00118	-.00098
#2	.4178	-.00084	-.01754	-.00015	.00235
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01516**	**-.00060**	**-.00016**	**-.0139**	**.00002**
Stddev	.01594	.00024	.00003	.0089	.00057
%RSD	105.14	39.507	20.329	63.82	2340.6
#1	-.00389	-.00077	-.00018	-.0077	-.00038
#2	-.02644	-.00044	-.00014	-.0202	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685465/1-A Acquired: 10/8/2023 22:52:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00000**	**.00014**	**.0128**
Stddev	.00044	.00038	.00004	.0042
%RSD	94.466	9009.2	25.139	33.17
#1	-.00016	-.00027	.00012	.0158
#2	-.00078	.00027	.00017	.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13910.**	**13093.**	**77302.**	**5781.4**
Stddev	17.	6.	54.	78.3
%RSD	.12110	.04360	.06959	1.3545
#1	13898.	13089.	77340.	5726.1
#2	13922.	13097.	77264.	5836.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.19%	103.58%	102.38%	96.312%
Range				

Sample Name: LCS 480-685465/2-A Acquired: 10/8/2023 22:55:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04818**	**10.094**	**.20852**	F **.24947**	**.21223**
Stddev	.00060	.019	.00051	.00004	.00094
%RSD	1.2416	.18619	.24321	.01583	.44083
#1	.04860	10.107	.20816	.24945	.21289
#2	.04776	10.080	.20888	.24950	.21156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20455**	**10.023**	**.20941**	**.0058**	**.20673**
Stddev	.00099	.046	.00105	.0086	.00133
%RSD	.48612	.45741	.49920	148.0	.64243
#1	.20525	10.055	.20867	.0119	.20579
#2	.20385	9.9902	.21015	-.0003	.20767
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21636**	**.19890**	**9.9874**	**9.9990**	**.17678**
Stddev	.00133	.00142	.0143	.0611	.00153
%RSD	.61445	.71151	.14312	.61139	.86769
#1	.21730	.19990	9.9773	9.9558	.17569
#2	.21542	.19790	9.9976	10.042	.17786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685465/2-A Acquired: 10/8/2023 22:55:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.378**	**.20875**	**.21736**	**9.9559**	**.19937**
Stddev	.051	.00107	.00095	.0584	.00136
%RSD	.49088	.51080	.43870	.58691	.68458
#1	10.414	.20950	.21669	9.9972	.19840
#2	10.342	.20799	.21804	9.9146	.20033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4121**	**.20827**	**10.898**	F **.23336**	**.20577**
Stddev	.0019	.00190	.060	.00085	.00298
%RSD	.4511	.91152	.55104	.36269	1.4487
#1	.4134	.20693	10.856	.23276	.20366
#2	.4108	.20961	10.941	.23396	.20788
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5827**	**.20043**	**.21102**	**-.0202**	**.21217**
Stddev	.0203	.00147	.00054	.0043	.00047
%RSD	.21218	.73535	.25750	21.50	.22115
#1	9.5683	.19939	.21140	-.0171	.21251
#2	9.5971	.20147	.21063	-.0233	.21184
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685465/2-A Acquired: 10/8/2023 22:55:51 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21319**	**.21160**	**.20852**	**.0112**
Stddev	.00250	.00075	.00118	.0002
%RSD	1.1713	.35374	.56600	1.812
#1	.21143	.21213	.20935	.0114
#2	.21496	.21107	.20768	.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13260.**	**12968.**	**76024.**	**5784.2**
Stddev	59.	39.	250.	62.2
%RSD	.44304	.29796	.32826	1.0760
#1	13302.	12995.	75847.	5740.2
#2	13219.	12941.	76200.	5828.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.369%	102.59%	100.69%	96.358%
Range				

Sample Name: 480-213123-B-1-A Acquired: 10/8/2023 22:59:25 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.05844**	**-.00058**	**.03482**	**.00030**
Stddev	.00008	.04333	.00018	.00032	.00002
%RSD	10.560	74.141	30.768	.92237	5.9430
#1	.00085	.02780	-.00045	.03505	.00029
#2	.00073	.08908	-.00070	.03459	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.07253**	**.00007**	**-.0190**	**-.00015**
Stddev	.00001	.00139	.00001	.0100	.00007
%RSD	6.1552	1.9217	18.529	52.57	49.141
#1	.00017	.07154	.00006	-.0119	-.00020
#2	.00015	.07351	.00008	-.0261	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00034**	**.00114**	**.22673**	**-.00386**
Stddev	.00003	.00021	.00071	.03217	.00145
%RSD	8.4289	61.251	62.498	14.189	37.483
#1	.00043	-.00019	.00064	.24947	-.00284
#2	.00038	-.00048	.00165	.20398	-.00489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-A Acquired: 10/8/2023 22:59:25 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02269**	**.00022**	**.00015**	**.04055**	**-.00015**
Stddev	.00128	.00005	.00017	.00189	.00005
%RSD	5.6566	24.185	111.62	4.6682	31.503
#1	.02360	.00025	.00027	.03921	-.00018
#2	.02178	.00018	.00003	.04189	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4238**	**-.00044**	**-.00951**	**-.00012**	**.00298**
Stddev	.0010	.00105	.00113	.00017	.00183
%RSD	.2393	240.61	11.893	138.72	61.322
#1	.4246	-.00118	-.00871	-.00000	.00428
#2	.4231	.00031	-.01030	-.00025	.00169
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00690**	**-.00028**	**.00030**	**-.0217**	**-.00009**
Stddev	.00656	.00036	.00011	.0015	.00003
%RSD	95.054	128.95	35.551	7.031	30.517
#1	-.01153	-.00002	.00037	-.0206	-.00011
#2	-.00226	-.00053	.00022	-.0228	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-A Acquired: 10/8/2023 22:59:25 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.00024**	**.00814**	**.0107**
Stddev	.00012	.00002	.00000	.0047
%RSD	12.014	9.0881	.04209	44.36
#1	-.00093	.00025	.00814	.0140
#2	-.00110	.00022	.00814	.0073
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13869.**	**13078.**	**77407.**	**5801.9**
Stddev	10.	24.	590.	11.5
%RSD	.07464	.18492	.76257	.19838
#1	13862.	13061.	76990.	5793.8
#2	13876.	13095.	77824.	5810.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.88%	103.46%	102.52%	96.653%
Range				

Sample Name: 480-213123-B-1-Asd@5 Acquired: 10/8/2023 23:03:08 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.04016**	**.00022**	**.02877**	**.00028**
Stddev	.00026	.03808	.00121	.00002	.00001
%RSD	30.702	94.821	559.76	.07877	2.7141
#1	.00065	.01323	.00107	.02876	.00027
#2	.00101	.06708	-.00064	.02879	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.04961**	**-.00000**	**.0085**	**-.00008**
Stddev	.00016	.00149	.00003	.0143	.00003
%RSD	1453.5	3.0080	4280.6	168.5	34.862
#1	-.00010	.05067	-.00002	.0186	-.00010
#2	.00012	.04856	.00002	-.0016	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00417**	**-.00010**	**.17548**	**-.00303**
Stddev	.00021	.00102	.00042	.02591	.00094
%RSD	67.061	24.506	412.30	14.765	30.940
#1	.00046	-.00490	-.00040	.19380	-.00237
#2	.00017	-.00345	.00020	.15716	-.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-Asd@5 Acquired: 10/8/2023 23:03:08 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00174**	**.00006**	**.00024**	**.03872**	**-.00012**
Stddev	.00162	.00001	.00008	.02732	.00004
%RSD	92.679	14.410	33.499	70.547	33.297
#1	.00060	.00006	.00019	.01941	-.00009
#2	.00288	.00007	.00030	.05804	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4176**	**-.00084**	**.00734**	**.00041**	**-.00096**
Stddev	.0020	.00002	.00130	.00001	.00120
%RSD	.4823	1.7860	17.748	2.5995	124.74
#1	.4190	-.00085	.00642	.00042	-.00181
#2	.4162	-.00083	.00827	.00041	-.00011
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01523**	**-.00017**	**.00032**	**-.0387**	**.00039**
Stddev	.01084	.00050	.00016	.0168	.00003
%RSD	71.216	295.68	49.714	43.42	8.4497
#1	-.02290	.00018	.00021	-.0268	.00036
#2	-.00756	-.00052	.00043	-.0506	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-Asd@5 Acquired: 10/8/2023 23:03:08 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.00003**	**.00245**	**.0129**
Stddev	.00041	.00018	.00018	.0010
%RSD	64.140	583.63	7.3142	8.145
#1	-.00093	-.00010	.00232	.0136
#2	-.00035	.00016	.00258	.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13812.**	**13019.**	**77543.**	**5729.7**
Stddev	22.	14.	235.	1.5
%RSD	.15910	.10629	.30332	.02665
#1	13828.	13028.	77377.	5730.8
#2	13797.	13009.	77710.	5728.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.46%	102.99%	102.70%	95.450%
Range				

Sample Name: 480-213123-B-1-APDS Acquired: 10/8/2023 23:06:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05200**	**10.232**	**.20035**	**.23580**	**.21845**
Stddev	.00245	.015	.00122	.00015	.01061
%RSD	4.7166	.14348	.60897	.06401	4.8583
#1	.05373	10.242	.19949	.23591	.22595
#2	.05027	10.221	.20121	.23569	.21094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20272**	**9.9886**	**.20090**	**.0291**	**.19748**
Stddev	.00044	.0085	.00033	.0729	.00020
%RSD	.21949	.08477	.16449	250.5	.10288
#1	.20303	9.9827	.20067	.0806	.19762
#2	.20240	9.9946	.20114	-.0224	.19733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21284**	**.20396**	**9.7834**	**10.159**	**.18332**
Stddev	.01057	.00947	.0123	.010	.00027
%RSD	4.9658	4.6423	.12555	.10225	.14922
#1	.22032	.21066	9.7747	10.151	.18352
#2	.20537	.19727	9.7920	10.166	.18313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-APDS Acquired: 10/8/2023 23:06:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.256**	**.20712**	**.20812**	**10.262**	**.19199**
Stddev	.493	.00933	.00023	.043	.00070
%RSD	4.8046	4.5055	.11233	.42322	.36519
#1	10.605	.21372	.20795	10.293	.19150
#2	9.9078	.20052	.20828	10.231	.19249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4186**	**.20111**	**10.688**	**.22180**	**.19688**
Stddev	.0014	.00276	.012	.00076	.00142
%RSD	.3370	1.3741	.11556	.34343	.72194
#1	.4196	.20307	10.679	.22126	.19588
#2	.4176	.19916	10.696	.22234	.19789
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.113**	**.19725**	**.21562**	**-.0170**	**.20981**
Stddev	.065	.00006	.00019	.0173	.01018
%RSD	.64671	.02929	.08944	101.7	4.8521
#1	10.160	.19729	.21576	-.0048	.21701
#2	10.067	.19721	.21549	-.0292	.20261
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-APDS Acquired: 10/8/2023 23:06:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20161**	**.20856**	**.21109**	**.0106**
Stddev	.00196	.00977	.01094	.0029
%RSD	.96971	4.6850	5.1806	27.15
#1	.20299	.21547	.21882	.0126
#2	.20023	.20165	.20335	.0086
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13516.**	**13204.**	**76394.**	**5770.2**
Stddev	2.	6.	2313.	19.9
%RSD	.01361	.04885	3.0271	.34534
#1	13515.	13209.	74759.	5756.1
#2	13517.	13200.	78030.	5784.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.27%	104.46%	101.18%	96.124%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 23:10:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97937**	**46.325**	**.95923**	**1.0061**	**.96117**
Stddev	.00461	.259	.00220	.0008	.00411
%RSD	.47092	.55826	.22917	.07558	.42715
#1	.98263	46.507	.96079	1.0066	.96407
#2	.97611	46.142	.95768	1.0056	.95827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91814**	**46.209**	**.96079**	**.9388**	**.94434**
Stddev	.00611	.279	.00032	.0213	.00091
%RSD	.66522	.60285	.03369	2.264	.09619
#1	.92246	46.406	.96056	.9538	.94498
#2	.91382	46.012	.96102	.9238	.94370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99194**	**.94838**	**45.401**	F **44.802**	F **.84886**
Stddev	.00179	.00160	.050	.149	.00325
%RSD	.18017	.16878	.11049	.33227	.38255
#1	.99320	.94951	45.366	44.907	.85115
#2	.99068	.94725	45.437	44.697	.84656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
Value				50.000	1.0000
Range				-10.000%	-10.000%

Sample Name: CCV-7538313 Acquired: 10/8/2023 23:10:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.333**	**.93616**	**.98854**	**45.870**	**.93803**
Stddev	.212	.00353	.00094	.261	.00020
%RSD	.43780	.37737	.09471	.56867	.02181
#1	48.482	.93866	.98788	46.054	.93817
#2	48.183	.93366	.98921	45.685	.93788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.56**	**.95189**	**24.887**	**.96364**	**.94827**
Stddev	.01	.00169	.020	.00418	.00036
%RSD	.0545	.17772	.07842	.43401	.03830
#1	24.55	.95070	24.901	.96069	.94801
#2	24.57	.95309	24.873	.96660	.94852
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1741**	**.94719**	**.96083**	**.9539**	**.96642**
Stddev	.0433	.00080	.00636	.0340	.00375
%RSD	.47150	.08416	.66209	3.561	.38775
#1	9.2047	.94662	.96533	.9779	.96907
#2	9.1435	.94775	.95633	.9299	.96377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 23:10:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.95201**	**.97649**	**.98608**	**.9557**
Stddev	.00241	.00206	.00461	.0028
%RSD	.25356	.21121	.46720	.2947
#1	.95372	.97795	.98934	.9577
#2	.95030	.97503	.98282	.9537
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12378.**	**12849.**	**74575.**	**5785.5**
Stddev	6.	16.	429.	30.2
%RSD	.04934	.12325	.57485	.52176
#1	12382.	12861.	74272.	5764.1
#2	12374.	12838.	74878.	5806.8

Sample Name: CCB-7506043 Acquired: 10/8/2023 23:13:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.03275**	**-.00076**	F **.02030**	**-.00002**
Stddev	.00062	.02535	.00009	.00071	.00001
%RSD	196.89	77.402	11.473	3.4769	80.439
#1	.00075	.05068	-.00082	.02080	-.00002
#2	-.00012	.01483	-.00069	.01980	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00118**	**.00008**	**-.0050**	**-.00013**
Stddev	.00007	.00112	.00007	.0254	.00013
%RSD	37.300	94.928	86.620	508.7	100.77
#1	.00014	-.00197	.00003	-.0230	-.00004
#2	.00023	-.00039	.00012	.0130	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00582**	**.00064**	**.13398**	**-.00292**
Stddev	.00038	.00114	.00046	.00553	.00004
%RSD	293.77	19.498	70.954	4.1276	1.2035
#1	.00040	-.00502	.00032	.13006	-.00294
#2	-.00014	-.00663	.00096	.13789	-.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 23:13:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00002**	**.00004**	**.00422**	**.00003**
Stddev	.00166	.00001	.00008	.00291	.00037
%RSD	144.10	57.263	215.94	69.105	1219.8
#1	-.00002	.00001	-.00002	.00628	-.00023
#2	.00233	.00003	.00009	.00216	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4187**	**-.00103**	**.00458**	**-.00008**	**.00013**
Stddev	.0011	.00007	.00062	.00259	.00268
%RSD	.2544	7.0338	13.554	3199.2	1992.0
#1	.4194	-.00098	.00502	.00175	-.00176
#2	.4179	-.00108	.00414	-.00192	.00203
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00749**	**-.00009**	**-.00007**	**-.0283**	**.00035**
Stddev	.00017	.00005	.00006	.0113	.00014
%RSD	2.2471	55.899	87.200	39.97	39.810
#1	-.00737	-.00012	-.00003	-.0363	.00025
#2	-.00761	-.00005	-.00011	-.0203	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 23:13:57 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00120**	**-.00004**	**-.00033**	**.0112**
Stddev	.00060	.00019	.00002	.0009
%RSD	49.918	448.97	5.5151	8.000
#1	.00078	.00009	-.00032	.0119
#2	.00162	-.00017	-.00034	.0106
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14014.**	**13137.**	**77137.**	**5766.8**
Stddev	109.	117.	219.	8.8
%RSD	.77754	.89107	.28405	.15322
#1	13937.	13054.	76982.	5760.5
#2	14091.	13220.	77292.	5773.0

Sample Name: CCVL-7610998 Acquired: 10/8/2023 23:17:40 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00710**	**.19003**	**.01340**	F **.03810**	**.00203**
Stddev	.00017	.01297	.00097	.00004	.00002
%RSD	2.4215	6.8244	7.2304	.09950	.97726
#1	.00698	.19920	.01272	.03807	.00204
#2	.00723	.18086	.01409	.03812	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.49194**	**.00211**	**.0023**	**.00363**
Stddev	.00012	.00750	.00005	.0000	.00018
%RSD	5.9018	1.5236	2.5225	.1877	4.9937
#1	.00206	.48664	.00207	.0023	.00350
#2	.00189	.49724	.00215	.0023	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00457**	W **.00517**	**.04935**	**.60124**	**.02409**
Stddev	.00016	.00023	.00312	.02066	.00136
%RSD	3.4595	4.5062	6.3312	3.4365	5.6275
#1	.00446	.00500	.04715	.61585	.02313
#2	.00468	.00533	.05156	.58663	.02505
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-30.000%			

Sample Name: CCVL-7610998 Acquired: 10/8/2023 23:17:40 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20248**	**.00304**	**.01057**	**.98866**	**.00934**
Stddev	.00086	.00003	.00010	.00285	.00023
%RSD	.42399	1.0084	.93308	.28799	2.4138
#1	.20308	.00306	.01064	.98665	.00918
#2	.20187	.00301	.01050	.99068	.00950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4188**	**.00876**	**.21580**	**.02124**	**.02342**
Stddev	.0012	.00043	.00040	.00056	.00359
%RSD	.2977	4.8801	.18450	2.6395	15.345
#1	.4179	.00846	.21551	.02085	.02088
#2	.4197	.00906	.21608	.02164	.02596
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44014**	**.00916**	**.00496**	F **-.0383**	**.00484**
Stddev	.00425	.00007	.00009	.0021	.00022
%RSD	.96514	.73766	1.8650	5.411	4.5201
#1	.44315	.00911	.00502	-.0398	.00469
#2	.43714	.00921	.00489	-.0369	.00500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/8/2023 23:17:40 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01923**	**.00520**	**.00986**	F **.0096**
Stddev	.00025	.00031	.00007	.0017
%RSD	1.3094	6.0481	.66707	17.66
#1	.01905	.00498	.00991	.0108
#2	.01941	.00543	.00981	.0084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13744.**	**13007.**	**77041.**	**5743.5**
Stddev	19.	9.	182.	34.5
%RSD	.13887	.07211	.23617	.59996
#1	13730.	13000.	76913.	5719.2
#2	13757.	13014.	77170.	5767.9

Sample Name: 480-213123-B-1-B MS Acquired: 10/8/2023 23:21:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04994**	**10.081**	**.20532**	**.22771**	**.21296**
Stddev	.00024	.000	.00213	.00505	.00003
%RSD	.47765	.00056	1.0397	2.2175	.01206
#1	.05011	10.081	.20683	.23128	.21297
#2	.04977	10.081	.20381	.22414	.21294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20154**	**9.9718**	**.20509**	**-.0460**	**.20289**
Stddev	.00086	.0366	.00434	.0071	.00408
%RSD	.42539	.36666	2.1176	15.48	2.0121
#1	.20214	9.9977	.20816	-.0410	.20577
#2	.20093	9.9459	.20202	-.0510	.20000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21458**	**.20248**	**9.8349**	**9.8664**	**.17654**
Stddev	.00080	.00032	.0097	.0619	.00130
%RSD	.37372	.15607	.09857	.62702	.73481
#1	.21402	.20270	9.8280	9.8226	.17562
#2	.21515	.20225	9.8417	9.9101	.17745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-B MS Acquired: 10/8/2023 23:21:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.238**	**.20561**	**.21447**	**9.9469**	**.19528**
Stddev	.015	.00036	.00467	.0083	.00374
%RSD	.14995	.17526	2.1797	.08377	1.9148
#1	10.249	.20586	.21777	9.9410	.19793
#2	10.227	.20535	.21116	9.9528	.19264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4151**	**.20349**	**10.822**	**.22838**	**.20224**
Stddev	.0008	.00356	.221	.00406	.00160
%RSD	.2040	1.7510	2.0416	1.7789	.79207
#1	.4157	.20601	10.978	.23126	.20337
#2	.4145	.20097	10.665	.22551	.20111
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6496**	**.19840**	**.21242**	**-.0271**	**.21084**
Stddev	.0590	.00400	.00032	.0110	.00040
%RSD	.61130	2.0177	.14894	40.59	.19202
#1	9.6079	.20123	.21264	-.0349	.21113
#2	9.6913	.19557	.21219	-.0193	.21055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-B MS Acquired: 10/8/2023 23:21:22 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20693**	**.20954**	**.21095**	**.0115**
Stddev	.00239	.00012	.00052	.0012
%RSD	1.1537	.05835	.24555	10.43
#1	.20862	.20945	.21059	.0124
#2	.20524	.20963	.21132	.0107
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13369.**	**13070.**	**76753.**	**5868.5**
Stddev	183.	194.	317.	27.4
%RSD	1.3707	1.4866	.41253	.46738
#1	13239.	12932.	76529.	5887.9
#2	13498.	13207.	76977.	5849.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.175%	103.39%	101.65%	97.762%
Range				

Sample Name: 480-213123-B-1-C MSD Acquired: 10/8/2023 23:24:54 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04929**	**9.9525**	**.20325**	**.22173**	**.20951**
Stddev	.00037	.0342	.00468	.00526	.00090
%RSD	.75790	.34348	2.3015	2.3743	.42814
#1	.04956	9.9283	.20655	.22545	.20888
#2	.04903	9.9767	.19994	.21800	.21015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20134**	**9.9848**	**.20342**	**-.0201**	**.20078**
Stddev	.00075	.0393	.00443	.0252	.00459
%RSD	.37227	.39317	2.1760	125.0	2.2868
#1	.20081	9.9571	.20655	-.0379	.20403
#2	.20187	10.013	.20029	-.0023	.19753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21128**	**.20078**	**9.7572**	**9.8105**	**.17546**
Stddev	.00125	.00086	.0160	.0804	.00041
%RSD	.59319	.42844	.16358	.81965	.23276
#1	.21039	.20017	9.7459	9.7537	.17575
#2	.21216	.20139	9.7685	9.8674	.17518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-C MSD Acquired: 10/8/2023 23:24:54 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.159**	**.20459**	**.21126**	**9.9013**	**.19363**
Stddev	.058	.00176	.00483	.0399	.00398
%RSD	.56621	.85994	2.2860	.40273	2.0575
#1	10.119	.20334	.21467	9.8731	.19645
#2	10.200	.20583	.20784	9.9295	.19082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4188**	**.20275**	**10.635**	**.22624**	**.20096**
Stddev	.0004	.00427	.222	.00591	.00885
%RSD	.0968	2.1056	2.0914	2.6138	4.4036
#1	.4185	.20576	10.792	.23042	.20722
#2	.4191	.19973	10.477	.22206	.19470
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5826**	**.19548**	**.20873**	**-.0271**	**.20834**
Stddev	.0604	.00416	.00005	.0132	.00121
%RSD	.63039	2.1293	.02186	48.65	.57884
#1	9.5399	.19843	.20869	-.0364	.20749
#2	9.6253	.19254	.20876	-.0178	.20920
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-1-C MSD Acquired: 10/8/2023 23:24:54 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20613**	**.20768**	**.20959**	**.0136**
Stddev	.00338	.00071	.00073	.0005
%RSD	1.6401	.34073	.35061	3.963
#1	.20852	.20718	.20907	.0132
#2	.20374	.20818	.21011	.0140
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13425.**	**13134.**	**76682.**	**5787.0**
Stddev	225.	209.	313.	17.0
%RSD	1.6729	1.5936	.40822	.29338
#1	13266.	12986.	76904.	5775.0
#2	13584.	13282.	76461.	5799.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.591%	103.90%	101.56%	96.404%
Range				

Sample Name: 480-213123-B-2-A Acquired: 10/8/2023 23:28:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.02667**	**-.00026**	**.07133**	**.06957**
Stddev	.00002	.02375	.00002	.00031	.00011
%RSD	2.1675	89.030	8.3333	.42798	.16132
#1	.00074	.00988	-.00025	.07154	.06965
#2	.00072	.04347	-.00028	.07111	.06949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**96.959**	**.00047**	**.0020**	**-.00011**
Stddev	.00005	.383	.00017	.0296	.00008
%RSD	30.174	.39522	37.208	1505.	70.410
#1	.00018	97.230	.00035	.0229	-.00006
#2	.00012	96.688	.00059	-.0190	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00306**	**.00226**	**-.00047**	**1.9663**	**-.00438**
Stddev	.00000	.00024	.00357	.0381	.00219
%RSD	.01436	10.829	761.70	1.9373	50.155
#1	.00306	.00209	-.00299	1.9394	-.00593
#2	.00306	.00243	.00205	1.9933	-.00282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-2-A Acquired: 10/8/2023 23:28:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.025**	**.00016**	**.00004**	**40.219**	**.00022**
Stddev	.023	.00005	.00045	.153	.00034
%RSD	.04719	28.486	1115.8	.37936	152.14
#1	49.009	.00019	-.00028	40.326	.00046
#2	49.041	.00013	.00036	40.111	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4429**	**.00215**	**10.357**	**-.00063**	**.00275**
Stddev	.0013	.00098	.004	.00190	.00412
%RSD	.2989	45.546	.04195	303.88	149.95
#1	.4419	.00284	10.360	.00072	-.00017
#2	.4438	.00146	10.354	-.00197	.00566
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.195**	**-.00019**	**.08447**	**-.0390**	**.00094**
Stddev	.031	.00037	.00023	.0111	.00014
%RSD	.25268	190.33	.26998	28.44	14.383
#1	12.216	-.00045	.08431	-.0311	.00104
#2	12.173	.00007	.08464	-.0468	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-2-A Acquired: 10/8/2023 23:28:26 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00029**	**.01235**	**.0103**
Stddev	.00176	.00026	.00034	.0013
%RSD	1191.6	90.814	2.7169	12.80
#1	-.00140	.00010	.01211	.0112
#2	.00110	.00047	.01258	.0094
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12490.**	**12531.**	**74234.**	**5693.4**
Stddev	25.	22.	177.	10.9
%RSD	.20053	.17684	.23786	.19077
#1	12473.	12516.	74359.	5685.7
#2	12508.	12547.	74109.	5701.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.658%	99.134%	98.317%	94.845%
Range				

Sample Name: 480-213123-B-3-A Acquired: 10/8/2023 23:32:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**-.01192**	**.00091**	**.02741**	**.04070**
Stddev	.00033	.02906	.00038	.00001	.00008
%RSD	25.789	243.76	41.593	.02864	.20840
#1	.00104	.00863	.00064	.02741	.04076
#2	.00150	-.03247	.00117	.02742	.04064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**84.900**	**.00056**	**.0420**	**-.00015**
Stddev	.00001	.304	.00000	.0596	.00001
%RSD	5.1401	.35818	.16181	141.9	7.0213
#1	.00026	85.115	.00056	.0842	-.00014
#2	.00024	84.685	.00056	-.0001	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**.00803**	**.05157**	**1.4734**	**-.00551**
Stddev	.00007	.00000	.00282	.0147	.00161
%RSD	7.4862	.00069	5.4720	.99730	29.156
#1	.00094	.00803	.05357	1.4838	-.00437
#2	.00104	.00803	.04958	1.4631	-.00664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-3-A Acquired: 10/8/2023 23:32:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.365**	**.00073**	**.00002**	**5.4573**	**-.00022**
Stddev	.149	.00001	.00037	.0205	.00037
%RSD	.32079	.93007	2329.2	.37633	166.46
#1	46.470	.00074	.00028	5.4718	-.00049
#2	46.260	.00073	-.00025	5.4428	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4409**	**.00221**	**10.510**	**-.00000**	**-.00087**
Stddev	.0001	.00152	.009	.00101	.00036
%RSD	.0153	68.643	.08286	21418.	41.097
#1	.4409	.00114	10.516	-.00072	-.00112
#2	.4408	.00328	10.504	.00071	-.00062
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1436**	**-.00030**	**.05902**	**-.0328**	**.00082**
Stddev	.0437	.00061	.00026	.0264	.00012
%RSD	.53693	206.17	.43465	80.42	14.994
#1	8.1745	-.00073	.05883	-.0514	.00074
#2	8.1127	.00014	.05920	-.0141	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-3-A Acquired: 10/8/2023 23:32:05 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00051**	**.01013**	**.0108**
Stddev	.00018	.00049	.00020	.0010
%RSD	502.18	96.003	1.9848	9.010
#1	.00009	-.00085	.00999	.0101
#2	-.00016	-.00016	.01027	.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13011.**	**12841.**	**76290.**	**5829.5**
Stddev	25.	15.	352.	41.9
%RSD	.19576	.12007	.46108	.71826
#1	12993.	12830.	76041.	5799.9
#2	13029.	12852.	76539.	5859.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.521%	101.59%	101.04%	97.113%
Range				

Sample Name: 480-213123-B-4-A Acquired: 10/8/2023 23:35:43 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**-.01078**	**.00029**	**.02511**	**.03238**
Stddev	.00031	.04763	.00005	.00004	.00016
%RSD	48.575	442.04	16.636	.17874	.48657
#1	.00086	.02290	.00026	.02508	.03249
#2	.00042	-.04445	.00033	.02514	.03226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**80.052**	**.00048**	**.0062**	**-.00022**
Stddev	.00005	.100	.00011	.0009	.00007
%RSD	94.919	.12521	23.581	15.35	30.527
#1	.00009	80.123	.00040	.0068	-.00027
#2	.00002	79.981	.00056	.0055	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**-.00293**	**.00554**	**1.2394**	**-.00614**
Stddev	.00003	.00085	.00366	.0086	.00126
%RSD	2.7106	29.108	66.041	.69477	20.541
#1	.00099	-.00233	.00812	1.2334	-.00525
#2	.00102	-.00353	.00295	1.2455	-.00704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-4-A Acquired: 10/8/2023 23:35:43 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.930**	**.00046**	**.00033**	**5.4279**	**-.00053**
Stddev	.167	.00007	.00029	.0098	.00005
%RSD	.37167	16.016	87.992	.18024	9.7611
#1	45.048	.00040	.00012	5.4210	-.00049
#2	44.812	.00051	.00053	5.4348	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4638**	**.00057**	**5.4311**	**-.00372**	**-.00225**
Stddev	.0003	.00082	.0096	.00414	.00118
%RSD	.0625	144.70	.17668	111.29	52.394
#1	.4640	.00115	5.4243	-.00079	-.00142
#2	.4636	-.00001	5.4379	-.00664	-.00308
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4582**	**-.00013**	**.06187**	**-.0270**	**.00086**
Stddev	.0070	.00018	.00047	.0020	.00019
%RSD	.07403	131.85	.76334	7.535	22.102
#1	9.4532	-.00026	.06220	-.0284	.00100
#2	9.4631	-.00001	.06153	-.0256	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-4-A Acquired: 10/8/2023 23:35:43 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.00088**	**1.3982**	**.0116**
Stddev	.00043	.00011	.0050	.0040
%RSD	53.889	11.996	.35519	34.40
#1	-.00110	-.00095	1.4017	.0087
#2	-.00049	-.00080	1.3947	.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12838.**	**12662.**	**75347.**	**5738.2**
Stddev	10.	10.	362.	3.3
%RSD	.07591	.08260	.48022	.05791
#1	12832.	12655.	75091.	5740.5
#2	12845.	12669.	75603.	5735.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.239%	100.17%	99.791%	95.591%
Range				

Sample Name: 480-213123-B-5-A Acquired: 10/8/2023 23:39:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**.01964**	**-.00128**	**.02560**	**.04004**
Stddev	.00025	.00349	.00079	.00026	.00002
%RSD	19.076	17.769	62.030	1.0193	.04935
#1	.00115	.01718	-.00072	.02579	.04005
#2	.00151	.02211	-.00184	.02542	.04002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**97.011**	**.00042**	**.0052**	**-.00018**
Stddev	.00007	.254	.00006	.0269	.00017
%RSD	29.849	.26219	15.075	517.9	97.257
#1	.00030	97.191	.00047	-.0138	-.00006
#2	.00019	96.831	.00038	.0242	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.02198**	**.02573**	**2.1024**	**-.00846**
Stddev	.00027	.00163	.00023	.0660	.00168
%RSD	26.040	7.3935	.87588	3.1400	19.897
#1	.00124	.02313	.02557	2.0557	-.00965
#2	.00085	.02084	.02589	2.1491	-.00727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-5-A Acquired: 10/8/2023 23:39:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.418**	**.00071**	**.00008**	**6.8799**	**-.00072**
Stddev	.175	.00001	.00015	.0182	.00012
%RSD	.32708	2.0700	200.82	.26437	16.181
#1	53.541	.00072	-.00003	6.8927	-.00080
#2	53.294	.00070	.00018	6.8670	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4559**	**.00250**	**10.786**	**-.00368**	**-.00141**
Stddev	.0014	.00059	.042	.00414	.00312
%RSD	.3092	23.508	.38917	112.39	221.55
#1	.4549	.00291	10.816	-.00661	.00080
#2	.4569	.00208	10.757	-.00076	-.00361
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0432**	**-.00057**	**.06873**	**-.0295**	**.00110**
Stddev	.0099	.00008	.00043	.0038	.00043
%RSD	.12288	13.779	.63205	12.99	39.096
#1	8.0502	-.00051	.06842	-.0267	.00080
#2	8.0362	-.00062	.06903	-.0322	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213123-B-5-A Acquired: 10/8/2023 23:39:21 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00073**	**-.00038**	**.01655**	**.0125**
Stddev	.00054	.00013	.00000	.0020
%RSD	74.331	32.705	.02637	16.38
#1	.00111	-.00047	.01655	.0110
#2	.00034	-.00030	.01654	.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12686.**	**12552.**	**74385.**	**5692.2**
Stddev	4.	11.	245.	21.5
%RSD	.03184	.08586	.32893	.37792
#1	12683.	12544.	74212.	5677.0
#2	12689.	12559.	74558.	5707.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.107%	99.294%	98.517%	94.825%
Range				

Sample Name: rinse Acquired: 10/8/2023 23:43:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00807**	**.00080**	**.00849**	**-.00001**
Stddev	.00057	.03167	.00083	.00050	.00001
%RSD	99.677	392.37	104.13	5.8486	153.94
#1	.00017	.03046	.00139	.00884	-.00002
#2	.00098	-.01432	.00021	.00814	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00496**	**.00018**	**-.0129**	**-.00012**
Stddev	.00009	.00454	.00012	.0355	.00002
%RSD	68.237	91.679	69.987	275.2	18.622
#1	.00019	-.00174	.00009	-.0380	-.00014
#2	.00007	-.00817	.00027	.0122	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00665**	**-.00252**	**.15715**	**-.00329**
Stddev	.00014	.00000	.00166	.00892	.00232
%RSD	380.78	.06159	65.966	5.6738	70.314
#1	-.00014	-.00665	-.00135	.16346	-.00493
#2	.00006	-.00664	-.00370	.15085	-.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 23:43:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.00001**	**.00005**	**-.03612**	**.00008**
Stddev	.00294	.00005	.00000	.00032	.00022
%RSD	172.72	534.77	4.4968	.89818	265.37
#1	-.00038	-.00003	.00004	-.03635	-.00007
#2	.00378	.00005	.00005	-.03589	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4166**	**-.00112**	**.00172**	**-.00056**	**-.00105**
Stddev	.0015	.00005	.00028	.00068	.00182
%RSD	.3570	4.7787	16.310	119.79	172.37
#1	.4155	-.00108	.00192	-.00104	.00023
#2	.4176	-.00115	.00152	-.00009	-.00234
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01644**	**-.00015**	**-.00013**	**-.0168**	**.00001**
Stddev	.00060	.00047	.00009	.0222	.00068
%RSD	3.6739	320.85	68.732	132.4	6942.5
#1	-.01602	-.00048	-.00007	-.0325	.00049
#2	-.01687	.00018	-.00019	-.0011	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/8/2023 23:43:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00016**	**-.00047**	**.0114**
Stddev	.00076	.00013	.00012	.0027
%RSD	169.60	80.208	25.352	23.43
#1	.00009	.00007	-.00056	.0096
#2	-.00098	.00025	-.00039	.0133
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13908.**	**13021.**	**77184.**	**5804.5**
Stddev	8.	2.	193.	55.5
%RSD	.05912	.01626	.24980	.95557
#1	13914.	13020.	77048.	5843.7
#2	13903.	13023.	77321.	5765.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.18%	103.01%	102.22%	96.696%
Range				

Sample Name: MB 480-685631/1-A Acquired: 10/8/2023 23:46:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**-.00369**	**-.00055**	**.00850**	**.00004**
Stddev	.00074	.02086	.00105	.00025	.00001
%RSD	83.130	565.78	191.03	2.9117	16.530
#1	.00037	.01106	-.00130	.00867	.00004
#2	.00141	-.01844	.00019	.00832	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00790**	**-.00003**	**-.0063**	**-.00024**
Stddev	.00015	.00262	.00016	.0119	.00018
%RSD	71.269	33.176	553.01	188.0	76.513
#1	.00011	.00975	.00009	.0021	-.00036
#2	.00033	.00605	-.00015	-.0147	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	F **-.00632**	**.00012**	**.15865**	**-.00291**
Stddev	.00062	.00142	.00343	.01523	.00070
%RSD	1182.4	22.495	2860.4	9.5983	24.169
#1	.00049	-.00531	.00254	.16942	-.00341
#2	-.00038	-.00732	-.00230	.14789	-.00241
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.00400			

Sample Name: MB 480-685631/1-A Acquired: 10/8/2023 23:46:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.00019**	**.00007**	**-.02102**	**-.00001**
Stddev	.00002	.00001	.00035	.00039	.00004
%RSD	.89261	4.2741	533.75	1.8363	486.76
#1	.00213	.00018	-.00018	-.02129	.00002
#2	.00216	.00019	.00031	-.02074	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4169**	**-.00126**	**-.01516**	**-.00088**	**-.00105**
Stddev	.0002	.00000	.00137	.00030	.00183
%RSD	.0589	.25893	9.0142	34.326	174.47
#1	.4171	-.00126	-.01419	-.00110	.00025
#2	.4168	-.00127	-.01612	-.00067	-.00235
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00381**	**-.00016**	**.00001**	**-.0355**	**.00023**
Stddev	.00644	.00011	.00010	.0039	.00027
%RSD	168.83	71.985	1502.7	11.11	116.59
#1	.00074	-.00008	-.00006	-.0382	.00004
#2	-.00836	-.00024	.00008	-.0327	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-685631/1-A Acquired: 10/8/2023 23:46:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00217**	**.00016**	**.00095**	**.0103**
Stddev	.00151	.00048	.00030	.0034
%RSD	69.511	306.07	31.586	32.77
#1	-.00324	.00049	.00074	.0127
#2	-.00110	-.00018	.00116	.0079
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13800.**	**13027.**	**77715.**	**5778.2**
Stddev	9.	1.	114.	27.2
%RSD	.06750	.00787	.14661	.46986
#1	13806.	13027.	77634.	5797.4
#2	13793.	13026.	77795.	5759.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.37%	103.05%	102.93%	96.257%
Range				

Sample Name: LCS 480-685631/2-A Acquired: 10/8/2023 23:50:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04992**	**10.132**	**.20737**	**.21876**	**.21433**
Stddev	.00107	.009	.00255	.00048	.00001
%RSD	2.1337	.08598	1.2299	.21869	.00616
#1	.05067	10.139	.20557	.21842	.21434
#2	.04917	10.126	.20917	.21909	.21432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20392**	**10.002**	**.20677**	**-.0209**	**.20488**
Stddev	.00068	.057	.00061	.0296	.00043
%RSD	.33476	.56903	.29529	141.6	.20967
#1	.20440	10.042	.20720	-.0418	.20518
#2	.20343	9.9619	.20634	.0000	.20458
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21336**	**.19969**	**9.8670**	**10.003**	**.17933**
Stddev	.00009	.00017	.0277	.031	.00187
%RSD	.04257	.08737	.28117	.31199	1.0402
#1	.21330	.19956	9.8867	10.025	.18065
#2	.21343	.19981	9.8474	9.9806	.17801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685631/2-A Acquired: 10/8/2023 23:50:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.240**	**.20802**	**.21542**	**10.038**	**.19746**
Stddev	.023	.00002	.00010	.059	.00040
%RSD	.22459	.00994	.04626	.58991	.20505
#1	10.224	.20800	.21549	10.080	.19718
#2	10.256	.20803	.21535	9.9962	.19775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4130**	**.20525**	**10.818**	F **.23052**	**.20542**
Stddev	.0016	.00019	.009	.00017	.00412
%RSD	.3878	.09340	.07911	.07298	2.0055
#1	.4142	.20511	10.824	.23064	.20833
#2	.4119	.20538	10.811	.23040	.20250
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.23000	
Low Limit				.17000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7950**	**.19925**	**.21203**	**-.0131**	**.21090**
Stddev	.0141	.00031	.00089	.0085	.00073
%RSD	.14424	.15524	.41987	64.78	.34684
#1	9.8050	.19947	.21266	-.0071	.21038
#2	9.7850	.19904	.21140	-.0191	.21142
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-685631/2-A Acquired: 10/8/2023 23:50:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21007**	**.21002**	**.20492**	**.0126**
Stddev	.00179	.00014	.00031	.0028
%RSD	.85179	.06594	.14894	21.95
#1	.20881	.21011	.20470	.0107
#2	.21134	.20992	.20513	.0146
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13213.**	**12927.**	**76589.**	**5769.6**
Stddev	10.	16.	218.	38.7
%RSD	.07896	.12190	.28485	.67125
#1	13206.	12916.	76434.	5742.2
#2	13221.	12938.	76743.	5797.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.021%	102.26%	101.44%	96.114%
Range				

Sample Name: CCV-7538313 Acquired: 10/8/2023 23:54:03 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0197**	**47.396**	**.98856**	**1.0151**	**.98802**
Stddev	.0031	.278	.00230	.0014	.00593
%RSD	.30282	.58733	.23270	.14126	.60017
#1	1.0218	47.593	.98694	1.0161	.99222
#2	1.0175	47.199	.99019	1.0141	.98383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94057**	**47.162**	**.98589**	**.9155**	**.97542**
Stddev	.00637	.275	.00007	.0173	.00046
%RSD	.67714	.58234	.00759	1.884	.04720
#1	.94507	47.356	.98584	.9033	.97509
#2	.93606	46.968	.98595	.9277	.97574
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0194**	**.97850**	**46.786**	**46.002**	F **.86696**
Stddev	.0050	.00229	.163	.328	.00878
%RSD	.48980	.23355	.34861	.71352	1.0130
#1	1.0229	.98012	46.671	46.235	.87317
#2	1.0158	.97688	46.901	45.770	.86075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/8/2023 23:54:03 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.876**	**.96607**	**1.0126**	**46.989**	**.97105**
Stddev	.245	.00004	.0006	.377	.00191
%RSD	.49202	.00421	.06121	.80246	.19618
#1	50.049	.96610	1.0130	47.256	.96970
#2	49.702	.96604	1.0122	46.723	.97239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**.98162**	**25.558**	**.99190**	**.98111**
Stddev	.00	.00088	.005	.00527	.00777
%RSD	.0083	.08941	.02112	.53139	.79172
#1	25.13	.98100	25.555	.98818	.98660
#2	25.13	.98224	25.562	.99563	.97561
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3716**	**.97625**	**.98832**	**.9536**	**.99336**
Stddev	.0623	.00096	.00321	.0086	.00186
%RSD	.66521	.09875	.32518	.9003	.18718
#1	9.4157	.97557	.99060	.9475	.99467
#2	9.3275	.97693	.98605	.9597	.99204
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/8/2023 23:54:03 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98598**	**1.0055**	**1.0162**	**.9769**
Stddev	.00488	.0017	.0029	.0016
%RSD	.49488	.16897	.28312	.1606
#1	.98943	1.0067	1.0182	.9780
#2	.98253	1.0043	1.0142	.9758
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12131.**	**12630.**	**73428.**	**5701.1**
Stddev	5.	1.	271.	28.2
%RSD	.04472	.00666	.36864	.49486
#1	12135.	12630.	73236.	5681.2
#2	12127.	12631.	73619.	5721.1

Sample Name: CCB-7506043 Acquired: 10/8/2023 23:57:36 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**-.01236**	**-.00051**	**.00651**	**.00001**
Stddev	.00010	.04075	.00046	.00013	.00002
%RSD	14.781	329.73	90.354	2.0475	363.70
#1	.00061	.01645	-.00084	.00660	.00002
#2	.00075	-.04117	-.00019	.00641	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00500**	**-.00000**	**-.0252**	**-.00016**
Stddev	.00006	.00017	.00006	.0054	.00007
%RSD	60.981	3.3376	1884.3	21.22	41.961
#1	.00006	-.00512	-.00005	-.0290	-.00011
#2	.00015	-.00488	.00004	-.0214	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00599**	**-.00153**	**.08277**	**-.00510**
Stddev	.00000	.00013	.00386	.01169	.00315
%RSD	2.2072	2.1055	252.14	14.125	61.624
#1	-.00012	-.00590	-.00426	.07450	-.00288
#2	-.00012	-.00608	.00120	.09104	-.00733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 23:57:36 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**-.00001**	**.00020**	**-.01885**	**-.00002**
Stddev	.00314	.00002	.00015	.00759	.00064
%RSD	272.69	292.59	73.881	40.253	3364.8
#1	.00107	-.00002	.00031	-.01348	-.00047
#2	-.00337	.00001	.00010	-.02421	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4179**	**-.00066**	**.00256**	**.00072**	**.00310**
Stddev	.0014	.00018	.00041	.00064	.00273
%RSD	.3354	27.795	15.988	87.880	87.950
#1	.4189	-.00053	.00285	.00117	.00503
#2	.4169	-.00079	.00227	.00027	.00117
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03080**	**-.00015**	**.00009**	**-.0320**	**.00014**
Stddev	.01673	.00001	.00005	.0033	.00049
%RSD	54.320	3.7780	55.892	10.43	340.09
#1	-.04263	-.00015	.00005	-.0296	.00049
#2	-.01897	-.00016	.00013	-.0344	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/8/2023 23:57:36 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00039**	**-.00006**	**.0097**
Stddev	.00094	.00031	.00027	.0018
%RSD	263.62	79.284	461.18	19.12
#1	-.00031	.00060	-.00025	.0110
#2	.00102	.00017	.00013	.0083
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13939.**	**13074.**	**77861.**	**5745.3**
Stddev	152.	139.	642.	19.2
%RSD	1.0929	1.0606	.82399	.33387
#1	13831.	12976.	77407.	5731.7
#2	14046.	13172.	78314.	5758.8

Sample Name: CCVL-7610998 Acquired: 10/9/2023 0:01:20 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00719**	**.17963**	**.01423**	**.02600**	**.00208**
Stddev	.00024	.02537	.00029	.00057	.00002
%RSD	3.2947	14.126	2.0652	2.1979	.98058
#1	.00735	.16168	.01443	.02640	.00206
#2	.00702	.19757	.01402	.02559	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.49006**	**.00211**	**.0330**	**.00355**
Stddev	.00014	.00154	.00013	.0419	.00015
%RSD	6.6693	.31483	6.1731	126.9	4.2723
#1	.00194	.48896	.00220	.0627	.00344
#2	.00213	.49115	.00202	.0034	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00425**	F **.00315**	**.04591**	**.59260**	**.02244**
Stddev	.00020	.00003	.00229	.00889	.00078
%RSD	4.6028	1.0437	4.9845	1.4994	3.4644
#1	.00412	.00318	.04429	.59888	.02189
#2	.00439	.00313	.04753	.58632	.02299
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/9/2023 0:01:20 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19869**	**.00302**	**.01034**	**.95780**	**.00962**
Stddev	.00070	.00008	.00009	.01501	.00011
%RSD	.35273	2.5495	.86686	1.5669	1.1554
#1	.19819	.00296	.01028	.96841	.00954
#2	.19918	.00307	.01040	.94719	.00969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4184**	**.00926**	**.21692**	**.02085**	**.02440**
Stddev	.0011	.00015	.00004	.00179	.00364
%RSD	.2744	1.6162	.01783	8.6079	14.914
#1	.4176	.00937	.21694	.02212	.02183
#2	.4192	.00916	.21689	.01958	.02697
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43034**	**.00948**	**.00497**	F **-.0125**	**.00552**
Stddev	.00623	.00006	.00005	.0106	.00036
%RSD	1.4472	.68487	.93214	85.13	6.4426
#1	.42594	.00953	.00500	-.0200	.00527
#2	.43475	.00944	.00494	-.0050	.00577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 0:01:20 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01902**	**.00519**	**.00987**	F **.0122**
Stddev	.00131	.00004	.00004	.0018
%RSD	6.8909	.71965	.36077	14.51
#1	.01809	.00516	.00990	.0109
#2	.01994	.00521	.00985	.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13760.**	**13009.**	**77123.**	**5750.0**
Stddev	28.	40.	212.	1.9
%RSD	.20078	.31006	.27530	.03253
#1	13740.	12980.	77273.	5751.3
#2	13779.	13037.	76973.	5748.7

Sample Name: 480-213170-A-1-A Acquired: 10/9/2023 0:05:02 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**-.03686**	**.00308**	**.15452**	**.02216**
Stddev	.00003	.01875	.00094	.00063	.00001
%RSD	2.1038	50.873	30.475	.40996	.04390
#1	.00127	-.05012	.00374	.15407	.02217
#2	.00124	-.02360	.00241	.15496	.02215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**150.69**	**.00054**	**-.0632**	**-.00031**
Stddev	.00006	.11	.00015	.0112	.00004
%RSD	16.481	.07343	28.576	17.70	11.604
#1	.00038	150.77	.00064	-.0553	-.00029
#2	.00030	150.61	.00043	-.0712	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00605**	**5.0695**	**3.1132**	**.04694**
Stddev	.00011	.00188	.0112	.0226	.00353
%RSD	50.342	31.038	.22015	.72586	7.5201
#1	.00014	-.00472	5.0616	3.0972	.04444
#2	.00030	-.00738	5.0774	3.1292	.04943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-1-A Acquired: 10/9/2023 0:05:02 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.112**	**.05398**	**.01154**	**23.593**	**-.00082**
Stddev	.067	.00018	.00006	.041	.00008
%RSD	.08040	.33869	.51247	.17481	10.152
#1	83.159	.05411	.01159	23.564	-.00077
#2	83.065	.05386	.01150	23.622	-.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4178**	**.00389**	F **107.04**	**.00070**	**-.00167**
Stddev	.0020	.00012	.04	.00104	.00111
%RSD	.4677	3.0011	.03707	149.45	66.712
#1	.4192	.00397	107.02	.00143	-.00245
#2	.4165	.00381	107.07	-.00004	-.00088
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.438**	**.00009**	**4.1739**	**-.0256**	**.00115**
Stddev	.009	.00014	.0174	.0003	.00003
%RSD	.07503	147.84	.41772	1.176	2.3239
#1	11.444	-.00000	4.1863	-.0258	.00117
#2	11.432	.00019	4.1616	-.0254	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-1-A Acquired: 10/9/2023 0:05:02 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00118**	**.00140**	**.0115**
Stddev	.00057	.00000	.00010	.0003
%RSD	141.69	.11328	7.1014	2.170
#1	-.00000	-.00119	.00147	.0114
#2	.00081	-.00118	.00133	.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12410.**	**12426.**	**74220.**	**5793.4**
Stddev	11.	4.	14.	20.5
%RSD	.08562	.03103	.01819	.35431
#1	12403.	12429.	74210.	5778.9
#2	12418.	12423.	74229.	5807.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.063%	98.298%	98.298%	96.511%
Range				

Sample Name: 480-213170-A-2-A Acquired: 10/9/2023 0:08:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**-.01276**	**-.00080**	**.00532**	**.00004**
Stddev	.00087	.00955	.00106	.00037	.00000
%RSD	62.138	74.863	132.22	6.8980	4.8820
#1	.00079	-.01951	-.00155	.00506	.00004
#2	.00202	-.00600	-.00005	.00558	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00620**	**.00010**	**.0288**	**-.00015**
Stddev	.00006	.00128	.00004	.0508	.00008
%RSD	75.263	20.680	43.952	176.7	55.585
#1	.00013	.00529	.00013	.0647	-.00009
#2	.00004	.00711	.00007	-.0072	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00739**	**.00300**	**.14239**	**-.00376**
Stddev	.00019	.00010	.00014	.04418	.00021
%RSD	46.921	1.3325	4.5556	31.028	5.6569
#1	.00026	-.00746	.00290	.17363	-.00361
#2	.00053	-.00732	.00310	.11115	-.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-2-A Acquired: 10/9/2023 0:08:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00271**	**-.00001**	**.00007**	**-.03456**	**-.00002**
Stddev	.00257	.00000	.00010	.00879	.00040
%RSD	94.837	7.2159	148.76	25.431	2649.3
#1	.00089	-.00001	.00014	-.04078	.00027
#2	.00453	-.00001	-.00000	-.02835	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4191**	**-.00080**	**-.01489**	**-.00006**	**-.00140**
Stddev	.0020	.00006	.00114	.00074	.00257
%RSD	.4771	7.5144	7.6420	1282.6	183.64
#1	.4205	-.00076	-.01409	-.00058	-.00322
#2	.4177	-.00084	-.01569	.00047	.00042
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02585**	**-.00017**	**-.00010**	**-.0143**	**.00006**
Stddev	.00084	.00044	.00014	.0084	.00013
%RSD	3.2624	259.78	132.50	58.95	221.94
#1	-.02645	.00014	-.00001	-.0084	-.00003
#2	-.02525	-.00049	-.00020	-.0203	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-2-A Acquired: 10/9/2023 0:08:40 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00167**	**.00027**	**.00049**	**.0109**
Stddev	.00089	.00024	.00007	.0011
%RSD	53.496	92.337	13.849	10.19
#1	-.00230	.00044	.00044	.0102
#2	-.00104	.00009	.00053	.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14078.**	**13254.**	**78835.**	**5917.4**
Stddev	27.	18.	80.	12.4
%RSD	.18895	.13360	.10175	.20983
#1	14060.	13241.	78779.	5908.6
#2	14097.	13267.	78892.	5926.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.44%	104.85%	104.41%	98.576%
Range				

Sample Name: 480-213170-A-3-A Acquired: 10/9/2023 0:12:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**-.00749**	**.00119**	**.31988**	**.03861**
Stddev	.00004	.00365	.00043	.00005	.00004
%RSD	2.2313	48.702	36.334	.01446	.11225
#1	.00162	-.00491	.00088	.31991	.03864
#2	.00157	-.01007	.00149	.31985	.03857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**89.816**	**.00080**	**.0062**	**.01192**
Stddev	.00007	.059	.00022	.0485	.00005
%RSD	51.582	.06586	27.985	781.8	.41027
#1	.00018	89.858	.00096	.0405	.01189
#2	.00008	89.774	.00064	-.0281	.01196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00433**	**.92004**	**5.6020**	**.04693**
Stddev	.00016	.00015	.00536	.0029	.00088
%RSD	293.94	3.5373	.58257	.05126	1.8835
#1	.00006	-.00443	.91625	5.6040	.04631
#2	-.00017	-.00422	.92383	5.6000	.04756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-3-A Acquired: 10/9/2023 0:12:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.835**	**.00939**	**.02861**	**49.821**	**.00012**
Stddev	.253	.00004	.00033	.069	.00080
%RSD	.36756	.47097	1.1609	.13754	646.49
#1	69.014	.00942	.02884	49.870	-.00044
#2	68.656	.00936	.02837	49.773	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4217**	**.00101**	F **100.29**	**-.00137**	**-.00224**
Stddev	.0002	.00124	.17	.00255	.00016
%RSD	.0573	122.50	.16625	186.70	7.1059
#1	.4215	.00014	100.17	-.00317	-.00235
#2	.4218	.00189	100.40	.00044	-.00213
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5974**	**-.00061**	**8.1745**	**-.0262**	**.00132**
Stddev	.0008	.00054	.0140	.0033	.00008
%RSD	.00973	87.329	.17066	12.71	5.8842
#1	8.5968	-.00099	8.1647	-.0238	.00138
#2	8.5980	-.00023	8.1844	-.0285	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-3-A Acquired: 10/9/2023 0:12:24 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00086**	**.00293**	**.0142**
Stddev	.00084	.00054	.00002	.0034
%RSD	755.08	62.771	.72305	24.02
#1	.00048	-.00048	.00291	.0166
#2	-.00071	-.00124	.00294	.0118
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12349.**	**12351.**	**73899.**	**5745.1**
Stddev	11.	1.	443.	40.5
%RSD	.08581	.00596	.59948	.70489
#1	12357.	12350.	73586.	5716.5
#2	12342.	12351.	74213.	5773.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.611%	97.705%	97.874%	95.706%
Range				

Sample Name: 480-213170-A-4-A Acquired: 10/9/2023 0:16:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.04191**	**.00152**	**.42760**	**.02838**
Stddev	.00016	.00337	.00073	.00145	.00006
%RSD	17.910	8.0295	48.110	.33929	.20050
#1	.00076	.03953	.00204	.42862	.02842
#2	.00098	.04429	.00100	.42657	.02834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**77.938**	**.00070**	**-.0144**	**.00007**
Stddev	.00015	.393	.00002	.0064	.00020
%RSD	103.59	.50476	2.2930	44.74	295.51
#1	.00004	78.216	.00069	-.0098	.00021
#2	.00026	77.660	.00071	-.0189	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00518**	**.91490**	**3.2706**	**.03372**
Stddev	.00011	.00080	.00087	.0602	.00062
%RSD	274.69	15.448	.09562	1.8396	1.8408
#1	.00012	-.00575	.91552	3.3132	.03416
#2	-.00004	-.00461	.91428	3.2281	.03329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-4-A Acquired: 10/9/2023 0:16:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**72.508**	**.03906**	**.02307**	**42.485**	**-.00011**
Stddev	.023	.00006	.00001	.212	.00012
%RSD	.03127	.15607	.04642	.49995	106.08
#1	72.492	.03901	.02306	42.635	-.00020
#2	72.524	.03910	.02308	42.335	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4417**	**.00195**	**83.714**	**-.00117**	**-.00006**
Stddev	.0003	.00126	.079	.00050	.00187
%RSD	.0615	64.507	.09427	43.000	2920.6
#1	.4415	.00106	83.770	-.00082	.00126
#2	.4418	.00285	83.658	-.00153	-.00139
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8586**	**-.00001**	F **12.589**	**-.0325**	**.00073**
Stddev	.0288	.00044	.075	.0031	.00036
%RSD	.32527	3950.9	.59501	9.670	49.538
#1	8.8789	.00030	12.642	-.0303	.00047
#2	8.8382	-.00032	12.536	-.0347	.00099
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213170-A-4-A Acquired: 10/9/2023 0:16:09 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00044**	**-.00081**	**.00115**	**.0112**
Stddev	.00004	.00046	.00016	.0014
%RSD	8.9897	56.386	14.377	12.45
#1	.00047	-.00049	.00103	.0102
#2	.00041	-.00113	.00126	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12429.**	**12423.**	**73884.**	**5699.9**
Stddev	17.	16.	123.	39.8
%RSD	.13541	.12831	.16706	.69881
#1	12441.	12434.	73972.	5671.8
#2	12417.	12411.	73797.	5728.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.203%	98.273%	97.854%	94.954%
Range				

Sample Name: 480-213170-A-5-A Acquired: 10/9/2023 0:19:53 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.02725**	**.00107**	**.41600**	**.04582**
Stddev	.00043	.01489	.00066	.00219	.00031
%RSD	496.34	54.659	61.517	.52626	.66951
#1	.00039	.03778	.00154	.41445	.04560
#2	-.00022	.01672	.00061	.41755	.04603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**86.486**	**.00027**	**.0053**	**.00014**
Stddev	.00005	.241	.00004	.0450	.00007
%RSD	25.891	.27902	16.417	847.7	51.617
#1	.00025	86.315	.00024	.0371	.00019
#2	.00017	86.657	.00030	-.0265	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**-.00535**	**2.5456**	**4.6811**	**.02215**
Stddev	.00010	.00063	.0133	.0055	.00188
%RSD	9.9880	11.819	.52089	.11662	8.5104
#1	.00108	-.00490	2.5362	4.6772	.02081
#2	.00094	-.00579	2.5549	4.6850	.02348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-5-A Acquired: 10/9/2023 0:19:53 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.180**	**.07100**	**.00208**	**61.875**	**-.00010**
Stddev	.075	.00012	.00018	.190	.00008
%RSD	.19536	.16971	8.6695	.30764	75.740
#1	38.127	.07109	.00221	62.009	-.00016
#2	38.232	.07092	.00196	61.740	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.7327**	**.00106**	F **137.09**	**.00026**	**-.00109**
Stddev	.0007	.00080	.35	.00048	.00100
%RSD	.0891	75.610	.25173	187.61	92.514
#1	.7323	.00163	136.84	.00060	-.00038
#2	.7332	.00049	137.33	-.00008	-.00180
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5514**	**-.00051**	F **12.585**	**-.0244**	**.00114**
Stddev	.0336	.00032	.210	.0038	.00027
%RSD	.35173	62.265	1.6677	15.59	23.331
#1	9.5276	-.00073	12.437	-.0217	.00133
#2	9.5751	-.00029	12.734	-.0271	.00095
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213170-A-5-A Acquired: 10/9/2023 0:19:53 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00036**	**.00094**	**.0118**
Stddev	.00017	.00043	.00001	.0037
%RSD	146.59	119.87	1.5247	31.15
#1	-.00000	-.00067	.00095	.0092
#2	.00024	-.00006	.00093	.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12538.**	**12544.**	**74374.**	**5745.6**
Stddev	27.	22.	8.	28.1
%RSD	.21208	.17550	.01088	.48846
#1	12557.	12560.	74368.	5765.5
#2	12519.	12528.	74379.	5725.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.012%	99.233%	98.502%	95.715%
Range				

Sample Name: 480-213170-A-6-A Acquired: 10/9/2023 0:23:35 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.01214**	**.00123**	**.05948**	**.05707**
Stddev	.00013	.00382	.00078	.00047	.00018
%RSD	38.017	31.514	63.514	.79510	.31085
#1	.00026	-.01484	.00068	.05914	.05719
#2	.00045	-.00943	.00178	.05981	.05694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**116.43**	**.00049**	**-.0536**	**.00194**
Stddev	.00005	.07	.00008	.0238	.00004
%RSD	71.372	.05612	15.799	44.43	2.1285
#1	.00011	116.38	.00055	-.0367	.00191
#2	.00004	116.48	.00044	-.0704	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00411**	**.88486**	**1.4919**	**.00178**
Stddev	.00020	.00116	.00138	.0604	.00013
%RSD	80.116	28.353	.15589	4.0451	7.1048
#1	.00040	-.00493	.88584	1.5346	.00169
#2	.00011	-.00328	.88389	1.4492	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-A Acquired: 10/9/2023 0:23:35 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.638**	**.31378**	**.01431**	**25.382**	**.00276**
Stddev	.140	.00014	.00031	.036	.00046
%RSD	.30587	.04389	2.1798	.14008	16.581
#1	45.737	.31387	.01409	25.357	.00244
#2	45.539	.31368	.01453	25.407	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4916**	**.00236**	**60.849**	**-.00115**	**-.00113**
Stddev	.0007	.00014	.210	.00201	.00426
%RSD	.1417	5.8115	.34432	175.24	378.54
#1	.4911	.00226	60.701	.00027	.00189
#2	.4921	.00245	60.997	-.00257	-.00414
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4056**	**-.00027**	**2.7477**	**-.0319**	**.00091**
Stddev	.0208	.00051	.0039	.0032	.00063
%RSD	.47162	190.84	.14075	10.03	68.945
#1	4.3909	.00009	2.7505	-.0341	.00136
#2	4.4203	-.00063	2.7450	-.0296	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-A Acquired: 10/9/2023 0:23:35 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00170**	**-.00025**	**.00116**	**.0121**
Stddev	.00055	.00006	.00010	.0014
%RSD	32.642	25.036	8.6607	11.92
#1	-.00209	-.00030	.00109	.0131
#2	-.00130	-.00021	.00124	.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12485.**	**12404.**	**73873.**	**5702.1**
Stddev	5.	1.	246.	27.2
%RSD	.03846	.00711	.33262	.47749
#1	12489.	12405.	73699.	5721.3
#2	12482.	12404.	74047.	5682.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.619%	98.127%	97.839%	94.989%
Range				

Sample Name: 480-213170-A-6-Asd@5 Acquired: 10/9/2023 0:27:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.03567**	**-.00075**	**.01422**	**.01112**
Stddev	.00072	.01129	.00042	.00063	.00001
%RSD	116.06	31.646	56.193	4.4154	.06653
#1	.00113	.04365	-.00104	.01466	.01111
#2	.00011	.02769	-.00045	.01378	.01112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**22.520**	**.00022**	**.0024**	**.00026**
Stddev	.00018	.045	.00023	.0151	.00009
%RSD	249.70	.19944	103.71	627.3	36.456
#1	.00020	22.488	.00038	.0131	.00019
#2	-.00005	22.551	.00006	-.0083	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00651**	**.17544**	**.34195**	**-.00187**
Stddev	.00026	.00058	.00010	.02045	.00014
%RSD	497.80	8.9694	.05736	5.9817	7.3519
#1	-.00024	-.00692	.17537	.32748	-.00197
#2	.00013	-.00609	.17551	.35641	-.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-Asd@5 Acquired: 10/9/2023 0:27:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8051**	**.06127**	**.00276**	**4.8553**	**.00036**
Stddev	.0036	.00019	.00009	.0274	.00002
%RSD	.04055	.31544	3.3876	.56486	4.6467
#1	8.8076	.06141	.00270	4.8360	.00037
#2	8.8026	.06114	.00283	4.8747	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4314**	**-.00106**	**11.408**	**.00071**	**.00075**
Stddev	.0018	.00043	.006	.00154	.00008
%RSD	.4129	40.936	.05384	219.01	10.087
#1	.4301	-.00075	11.404	.00180	.00080
#2	.4326	-.00137	11.413	-.00039	.00070
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82067**	**-.00019**	**.52375**	**-.0284**	**-.00020**
Stddev	.01698	.00033	.00133	.0002	.00046
%RSD	2.0688	174.65	.25344	.8493	225.47
#1	.83267	-.00042	.52469	-.0286	.00012
#2	.80866	.00004	.52281	-.0282	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-Asd@5 Acquired: 10/9/2023 0:27:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.00007**	**.00019**	**.0108**
Stddev	.00095	.00005	.00014	.0017
%RSD	83.432	76.953	73.372	15.29
#1	-.00047	.00011	.00009	.0096
#2	-.00181	.00003	.00029	.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13509.**	**12962.**	**76756.**	**5761.6**
Stddev	23.	33.	80.	31.8
%RSD	.17281	.25826	.10387	.55224
#1	13492.	12938.	76812.	5784.1
#2	13525.	12985.	76700.	5739.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.21%	102.54%	101.66%	95.981%
Range				

Sample Name: 480-213170-A-6-APDS Acquired: 10/9/2023 0:30:54 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05135**	**10.295**	**.22078**	**.27405**	**.26843**
Stddev	.00108	.090	.00393	.00069	.00159
%RSD	2.1086	.87411	1.7783	.25289	.59312
#1	.05211	10.359	.22355	.27356	.26956
#2	.05058	10.232	.21800	.27454	.26731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21260**	**119.52**	**.21849**	**-.0306**	**.21552**
Stddev	.00163	.56	.00010	.0140	.00023
%RSD	.76465	.46639	.04475	45.80	.10781
#1	.21375	119.91	.21856	-.0405	.21536
#2	.21145	119.12	.21842	-.0207	.21569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22040**	**.20713**	**10.907**	**11.467**	**.19199**
Stddev	.00057	.00166	.092	.107	.00058
%RSD	.25867	.80219	.83975	.93055	.30043
#1	.22080	.20595	10.972	11.543	.19240
#2	.21999	.20830	10.842	11.392	.19158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-APDS Acquired: 10/9/2023 0:30:54 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.207**	**.50477**	**.23892**	**33.953**	**.20918**
Stddev	.354	.00221	.00055	.254	.00029
%RSD	.66626	.43793	.22899	.74802	.13985
#1	53.458	.50634	.23931	34.133	.20897
#2	52.957	.50321	.23853	33.774	.20939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4829**	**.21716**	**68.093**	**.23757**	**.21549**
Stddev	.0011	.00073	.108	.00075	.00106
%RSD	.2337	.33679	.15895	.31365	.49038
#1	.4821	.21768	68.017	.23810	.21623
#2	.4837	.21665	68.170	.23705	.21474
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.072**	**.20181**	**2.7864**	**-.0405**	**.21955**
Stddev	.108	.00003	.0240	.0004	.00061
%RSD	.76605	.01354	.86193	.8855	.27693
#1	14.148	.20183	2.8034	-.0408	.21998
#2	13.996	.20179	2.7694	-.0403	.21912
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-APDS Acquired: 10/9/2023 0:30:54 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21544**	**.21940**	**.21154**	**.0113**
Stddev	.00017	.00111	.00135	.0007
%RSD	.07998	.50681	.63722	5.798
#1	.21556	.22018	.21249	.0118
#2	.21531	.21861	.21058	.0109
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12293.**	**12489.**	**74009.**	**5699.2**
Stddev	3.	8.	325.	8.8
%RSD	.02832	.06773	.43945	.15378
#1	12291.	12483.	73779.	5705.4
#2	12296.	12495.	74239.	5693.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.194%	98.800%	98.018%	94.941%
Range				

Sample Name: 480-213170-A-6-B MS Acquired: 10/9/2023 0:34:27 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05058**	**10.277**	**.21913**	**.27752**	**.27028**
Stddev	.00022	.013	.00045	.00091	.00007
%RSD	.44347	.12937	.20626	.32967	.02689
#1	.05042	10.287	.21945	.27687	.27023
#2	.05074	10.268	.21881	.27816	.27033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20946**	**126.69**	**.21580**	**-.0638**	**.21445**
Stddev	.00016	.34	.00017	.0050	.00003
%RSD	.07828	.27041	.08010	7.855	.01235
#1	.20958	126.94	.21568	-.0602	.21443
#2	.20934	126.45	.21592	-.0673	.21447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21732**	**.20405**	**10.901**	**11.588**	**.19119**
Stddev	.00027	.00085	.004	.070	.00053
%RSD	.12338	.41785	.04030	.60732	.27925
#1	.21713	.20345	10.898	11.638	.19081
#2	.21751	.20466	10.904	11.538	.19156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-B MS Acquired: 10/9/2023 0:34:27 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.129**	**.50206**	**.23741**	**36.138**	**.20741**
Stddev	.002	.00042	.00054	.140	.00068
%RSD	.00332	.08279	.22873	.38859	.32862
#1	56.128	.50177	.23702	36.237	.20693
#2	56.130	.50236	.23779	36.039	.20789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4919**	**.21593**	**72.654**	**.23840**	**.21357**
Stddev	.0011	.00034	.071	.00396	.00391
%RSD	.2173	.15611	.09742	1.6621	1.8290
#1	.4927	.21569	72.604	.24120	.21080
#2	.4911	.21617	72.704	.23559	.21633
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.543**	**.20914**	**3.0110**	**-.0003**	**.21776**
Stddev	.003	.00008	.0101	.0010	.00158
%RSD	.02061	.03864	.33583	365.4	.72604
#1	14.545	.20919	3.0181	-.0009	.21664
#2	14.541	.20908	3.0038	.0004	.21888
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-B MS Acquired: 10/9/2023 0:34:27 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21376**	**.21472**	**.20685**	**.0144**
Stddev	.00171	.00123	.00030	.0002
%RSD	.79769	.57232	.14331	1.671
#1	.21496	.21385	.20664	.0142
#2	.21255	.21559	.20706	.0145
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12195.**	**12419.**	**73630.**	**5658.6**
Stddev	17.	15.	135.	46.2
%RSD	.13954	.11844	.18319	.81634
#1	12183.	12409.	73534.	5625.9
#2	12207.	12429.	73725.	5691.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.467%	98.245%	97.516%	94.265%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 0:38:00 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0141**	**47.488**	**.98936**	**1.0162**	**.98970**
Stddev	.0006	.200	.00013	.0006	.00395
%RSD	.06242	.42218	.01334	.05520	.39872
#1	1.0145	47.346	.98926	1.0158	.98691
#2	1.0136	47.630	.98945	1.0166	.99249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93976**	**47.447**	**.98876**	**.8901**	**.97356**
Stddev	.00166	.165	.00078	.0328	.00087
%RSD	.17638	.34776	.07904	3.688	.08950
#1	.93859	47.330	.98931	.8669	.97418
#2	.94094	47.563	.98821	.9133	.97295
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0176**	**.97608**	**46.804**	**45.818**	F **.87121**
Stddev	.0003	.00455	.047	.029	.00050
%RSD	.02562	.46576	.10053	.06276	.05709
#1	1.0175	.97930	46.837	45.798	.87086
#2	1.0178	.97287	46.771	45.839	.87157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/9/2023 0:38:00 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.377**	**.96194**	**1.0178**	**47.172**	**.96727**
Stddev	.059	.00179	.0009	.078	.00078
%RSD	.11949	.18649	.08867	.16623	.08052
#1	49.419	.96321	1.0172	47.117	.96782
#2	49.336	.96067	1.0185	47.228	.96672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.23**	**.97907**	**25.622**	**.99199**	**.97807**
Stddev	.03	.00100	.019	.00083	.00438
%RSD	.1074	.10233	.07290	.08366	.44796
#1	25.25	.97978	25.635	.99258	.98117
#2	25.21	.97836	25.609	.99140	.97497
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3964**	**.97393**	**.98719**	**.9644**	**.99314**
Stddev	.0477	.00095	.00446	.0151	.00255
%RSD	.50762	.09751	.45165	1.563	.25643
#1	9.3626	.97460	.98404	.9538	.99494
#2	9.4301	.97326	.99034	.9751	.99134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 0:38:00 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97755**	**1.0024**	**1.0107**	**.9815**
Stddev	.00236	.0019	.0010	.0015
%RSD	.24115	.19151	.10430	.1492
#1	.97922	1.0038	1.0115	.9826
#2	.97588	1.0010	1.0100	.9805
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12151.**	**12615.**	**73932.**	**5678.3**
Stddev	16.	27.	206.	1.3
%RSD	.13049	.21731	.27912	.02211
#1	12162.	12635.	74078.	5677.5
#2	12140.	12596.	73786.	5679.2

Sample Name: CCB-7506043 Acquired: 10/9/2023 0:41:34 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.01509**	**.00010**	**.00317**	**.00002**
Stddev	.00075	.00157	.00042	.00058	.00004
%RSD	186.45	10.400	411.39	18.366	149.17
#1	.00093	-.01620	-.00020	.00358	.00005
#2	-.00013	-.01398	.00040	.00276	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00485**	**-.00003**	**.0012**	**-.00012**
Stddev	.00012	.00362	.00008	.0535	.00006
%RSD	111.07	74.772	265.09	4509.	45.695
#1	.00002	-.00741	.00003	.0390	-.00008
#2	.00019	-.00228	-.00009	-.0366	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00577**	**.00173**	**.16021**	**-.00393**
Stddev	.00006	.00130	.00060	.00800	.00025
%RSD	41.025	22.539	34.753	4.9928	6.4590
#1	-.00011	-.00669	.00130	.16586	-.00411
#2	-.00020	-.00485	.00215	.15455	-.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 0:41:34 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00365**	**.00002**	**.00034**	**-.02711**	**-.00002**
Stddev	.00201	.00003	.00018	.00826	.00046
%RSD	55.187	178.22	53.909	30.468	2200.7
#1	-.00507	.00004	.00047	-.02127	.00030
#2	-.00222	-.00000	.00021	-.03295	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4173**	**-.00111**	**.01285**	**.00146**	**.00065**
Stddev	.0013	.00157	.00091	.00003	.00189
%RSD	.3158	141.39	7.1011	1.9291	293.03
#1	.4164	-.00000	.01220	.00148	.00198
#2	.4183	-.00221	.01349	.00144	-.00069
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01465**	**-.00031**	**-.00011**	**-.0322**	**.00027**
Stddev	.02545	.00049	.00003	.0039	.00008
%RSD	173.69	159.64	24.550	12.03	29.360
#1	-.03265	-.00066	-.00009	-.0350	.00021
#2	.00334	.00004	-.00012	-.0295	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 0:41:34 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.00007**	**-.00040**	**.0115**
Stddev	.00156	.00027	.00021	.0023
%RSD	273.97	360.96	52.265	20.09
#1	-.00167	-.00012	-.00054	.0098
#2	.00053	.00026	-.00025	.0131
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13900.**	**13025.**	**77429.**	**5746.0**
Stddev	26.	39.	59.	19.8
%RSD	.18498	.29806	.07573	.34423
#1	13919.	13052.	77470.	5732.0
#2	13882.	12998.	77388.	5760.0

Sample Name: CCVL-7610998 Acquired: 10/9/2023 0:45:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00628**	**.21817**	**.01408**	**.02165**	**.00205**
Stddev	.00008	.00144	.00202	.00022	.00001
%RSD	1.3309	.66127	14.369	1.0056	.43577
#1	.00633	.21919	.01265	.02150	.00205
#2	.00622	.21715	.01551	.02181	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.47582**	**.00205**	**-.0026**	**.00367**
Stddev	.00006	.00790	.00004	.0264	.00005
%RSD	3.0792	1.6613	2.1426	1004.	1.4677
#1	.00197	.48141	.00202	.0160	.00370
#2	.00205	.47023	.00208	-.0213	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00402**	F **.00370**	**.04586**	**.59568**	**.02169**
Stddev	.00022	.00076	.00023	.02141	.00354
%RSD	5.3865	20.443	.49962	3.5941	16.347
#1	.00417	.00317	.04570	.58054	.01918
#2	.00386	.00424	.04602	.61082	.02419
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-50.000%			

Sample Name: CCVL-7610998 Acquired: 10/9/2023 0:45:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19376**	**.00297**	**.01041**	**.94320**	**.00922**
Stddev	.00384	.00006	.00011	.00565	.00018
%RSD	1.9817	1.9414	1.0768	.59907	1.9973
#1	.19105	.00293	.01033	.93920	.00909
#2	.19648	.00301	.01049	.94719	.00935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4194**	**.00767**	**.21867**	**.02070**	**.02427**
Stddev	.0018	.00181	.00117	.00011	.00215
%RSD	.4354	23.623	.53368	.55220	8.8767
#1	.4207	.00896	.21949	.02079	.02579
#2	.4181	.00639	.21784	.02062	.02275
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42100**	**.00961**	**.00503**	F **-.0236**	**.00494**
Stddev	.00925	.00035	.00016	.0010	.00011
%RSD	2.1965	3.5979	3.2654	4.428	2.1708
#1	.42754	.00985	.00491	-.0228	.00502
#2	.41446	.00936	.00515	-.0243	.00487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 0:45:18 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01868**	**.00474**	**.00991**	W **.0087**
Stddev	.00087	.00020	.00014	.0003
%RSD	4.6524	4.2982	1.4576	3.426
#1	.01929	.00488	.01001	.0089
#2	.01806	.00459	.00980	.0085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value				.0060
Range				30.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13953.**	**13210.**	**78052.**	**5854.6**
Stddev	19.	13.	25.	36.9
%RSD	.13398	.09529	.03189	.63107
#1	13966.	13219.	78069.	5880.7
#2	13939.	13201.	78034.	5828.4

Sample Name: 480-213170-A-6-C MSD Acquired: 10/9/2023 0:49:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04995**	**10.132**	**.21407**	**.27070**	**.26482**
Stddev	.00109	.041	.00109	.00060	.00067
%RSD	2.1877	.40929	.50724	.22140	.25290
#1	.05073	10.102	.21484	.27027	.26435
#2	.04918	10.161	.21330	.27112	.26529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20322**	**121.64**	**.20925**	**-.0324**	**.20802**
Stddev	.00083	.61	.00016	.0088	.00031
%RSD	.40957	.50337	.07644	27.04	.14919
#1	.20381	122.07	.20937	-.0262	.20824
#2	.20263	121.20	.20914	-.0386	.20780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21010**	**.19956**	**10.844**	**11.386**	**.18625**
Stddev	.00002	.00143	.080	.048	.00267
%RSD	.00890	.71616	.73813	.42565	1.4344
#1	.21009	.19855	10.900	11.420	.18814
#2	.21011	.20057	10.787	11.351	.18436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-C MSD Acquired: 10/9/2023 0:49:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.992**	**.44267**	**.22937**	**34.766**	**.20077**
Stddev	.028	.00026	.00046	.151	.00085
%RSD	.05229	.05813	.20178	.43317	.42173
#1	53.972	.44285	.22904	34.873	.20137
#2	54.012	.44249	.22970	34.660	.20017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4996**	**.21014**	**69.965**	**.23031**	**.20586**
Stddev	.0063	.00024	.011	.00168	.00242
%RSD	1.264	.11366	.01589	.73099	1.1751
#1	.5040	.20998	69.958	.23150	.20757
#2	.4951	.21031	69.973	.22912	.20415
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.023**	**.20230**	**2.8976**	**-.0088**	**.21072**
Stddev	.103	.00025	.0064	.0007	.00103
%RSD	.73768	.12162	.22075	8.441	.49029
#1	14.096	.20248	2.9022	-.0093	.21145
#2	13.950	.20213	2.8931	-.0082	.20999
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-6-C MSD Acquired: 10/9/2023 0:49:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20915**	**.20786**	**.20127**	**.0090**
Stddev	.00135	.00023	.00007	.0006
%RSD	.64344	.10946	.03575	6.927
#1	.21010	.20802	.20132	.0094
#2	.20820	.20770	.20122	.0085
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12192.**	**12404.**	**73497.**	**5657.7**
Stddev	12.	8.	57.	63.2
%RSD	.09908	.06081	.07693	1.1179
#1	12184.	12398.	73457.	5613.0
#2	12201.	12409.	73537.	5702.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.446%	98.123%	97.341%	94.250%
Range				

Sample Name: 480-213170-A-7-A Acquired: 10/9/2023 0:52:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.04980**	**.00252**	**.15559**	**.02331**
Stddev	.00038	.01728	.00032	.00004	.00008
%RSD	49.094	34.705	12.620	.02635	.36378
#1	.00050	.06203	.00274	.15556	.02337
#2	.00103	.03758	.00229	.15562	.02325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**155.37**	**.00042**	**-.0612**	**-.00037**
Stddev	.00008	.47	.00010	.0199	.00010
%RSD	203.01	.30275	22.838	32.53	25.733
#1	-.00002	155.03	.00035	-.0753	-.00031
#2	.00009	155.70	.00049	-.0471	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00292**	**5.1977**	**3.2273**	**.04900**
Stddev	.00008	.00003	.0013	.0201	.00345
%RSD	72.620	.87905	.02506	.62297	7.0367
#1	.00016	-.00290	5.1968	3.2130	.05143
#2	.00005	-.00293	5.1986	3.2415	.04656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-7-A Acquired: 10/9/2023 0:52:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**86.189**	**.05540**	**.01159**	**24.502**	**-.00104**
Stddev	.187	.00003	.00013	.028	.00024
%RSD	.21689	.04541	1.1331	.11609	23.090
#1	86.321	.05542	.01168	24.482	-.00087
#2	86.057	.05538	.01150	24.522	-.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4190**	**.00245**	F **111.11**	**-.00135**	**.00044**
Stddev	.0000	.00056	.05	.00226	.00190
%RSD	.0062	22.872	.04347	167.07	432.14
#1	.4190	.00285	111.07	.00024	-.00090
#2	.4190	.00206	111.14	-.00295	.00178
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.883**	**-.00026**	**4.3223**	**-.0091**	**.00125**
Stddev	.021	.00077	.0045	.0043	.00042
%RSD	.18008	292.88	.10380	46.91	33.546
#1	11.868	-.00081	4.3255	-.0061	.00155
#2	11.899	.00028	4.3192	-.0121	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-7-A Acquired: 10/9/2023 0:52:34 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00193**	**-.00113**	**.00048**	**.0122**
Stddev	.00048	.00005	.00010	.0012
%RSD	25.005	3.9859	21.379	9.468
#1	.00158	-.00110	.00041	.0114
#2	.00227	-.00116	.00056	.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12163.**	**12218.**	**73022.**	**5646.0**
Stddev	29.	23.	60.	3.3
%RSD	.23726	.18677	.08236	.05792
#1	12142.	12202.	72979.	5648.3
#2	12183.	12235.	73064.	5643.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.227%	96.658%	96.711%	94.056%
Range				

Sample Name: 480-213170-A-8-A Acquired: 10/9/2023 0:56:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**-.00872**	**.00231**	**.10487**	**.03024**
Stddev	.00005	.04764	.00098	.00090	.00016
%RSD	6.2476	546.09	42.545	.85745	.53865
#1	.00079	.02496	.00301	.10551	.03035
#2	.00072	-.04241	.00162	.10424	.03012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**159.80**	**.00065**	**-.0716**	**-.00017**
Stddev	.00007	.76	.00008	.0563	.00000
%RSD	31.319	.47605	11.956	78.59	1.7105
#1	.00017	159.26	.00060	-.0318	-.00017
#2	.00027	160.34	.00071	-.1114	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**-.00367**	**4.9945**	**2.8354**	**.04188**
Stddev	.00031	.00082	.0214	.0263	.00053
%RSD	8729.0	22.391	.42819	.92604	1.2700
#1	.00021	-.00425	4.9794	2.8168	.04151
#2	-.00022	-.00309	5.0096	2.8540	.04226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-8-A Acquired: 10/9/2023 0:56:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**74.542**	**.08316**	**.01134**	**22.267**	**-.00075**
Stddev	.161	.00003	.00010	.017	.00019
%RSD	.21632	.03970	.90333	.07609	25.657
#1	74.656	.08314	.01127	22.255	-.00089
#2	74.428	.08318	.01142	22.279	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4425**	**.00327**	F **95.987**	**-.00419**	**.00075**
Stddev	.0020	.00001	.084	.00139	.00418
%RSD	.4557	.45406	.08739	33.195	555.19
#1	.4440	.00326	95.928	-.00321	-.00220
#2	.4411	.00328	96.046	-.00517	.00371
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.366**	**-.00004**	**4.1248**	**-.0162**	**.00106**
Stddev	.006	.00008	.0024	.0027	.00033
%RSD	.04876	217.30	.05734	16.53	31.251
#1	11.362	-.00009	4.1265	-.0143	.00083
#2	11.370	.00002	4.1231	-.0181	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-8-A Acquired: 10/9/2023 0:56:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00172**	**-.00070**	**.00115**	**.0124**
Stddev	.00132	.00035	.00009	.0005
%RSD	76.596	49.595	8.2419	4.327
#1	.00079	-.00094	.00121	.0128
#2	.00265	-.00045	.00108	.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12210.**	**12242.**	**72975.**	**5671.4**
Stddev	5.	6.	159.	9.5
%RSD	.04504	.04888	.21721	.16822
#1	12214.	12246.	73087.	5678.2
#2	12206.	12237.	72863.	5664.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.576%	96.842%	96.650%	94.479%
Range				

Sample Name: 480-213170-A-9-A Acquired: 10/9/2023 0:59:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.01712**	**.00078**	**.42425**	**.01463**
Stddev	.00031	.01916	.00097	.00124	.00000
%RSD	97.284	111.94	124.59	.29332	.00922
#1	.00010	-.03067	.00147	.42513	.01463
#2	.00054	-.00357	.00009	.42337	.01463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**254.41**	**.00096**	**.0599**	**-.00011**
Stddev	.00002	1.21	.00007	.0476	.00012
%RSD	13.102	.47538	7.2689	79.37	116.24
#1	.00015	255.27	.00091	.0263	-.00019
#2	.00013	253.56	.00101	.0936	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00006**	**6.9779**	**6.2379**	**.18618**
Stddev	.00022	.00093	.0502	.0559	.00223
%RSD	983.21	1664.1	.72003	.89660	1.1979
#1	.00017	.00071	7.0135	6.2775	.18775
#2	-.00013	-.00060	6.9424	6.1984	.18460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-9-A Acquired: 10/9/2023 0:59:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**301.46**	**.06512**	**.01782**	**84.037**	**-.00151**
Stddev	.34	.00008	.00003	.692	.00002
%RSD	.11386	.12431	.18450	.82313	1.4198
#1	301.21	.06507	.01785	84.526	-.00149
#2	301.70	.06518	.01780	83.548	-.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4807**	**.00621**	F **525.95**	**-.00290**	**.00080**
Stddev	.0024	.00052	.95	.00001	.00302
%RSD	.4905	8.3877	.17991	.31334	379.20
#1	.4790	.00657	526.62	-.00289	.00293
#2	.4823	.00584	525.28	-.00291	-.00134
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.426**	**-.00044**	F **9.6566**	**-.0209**	**.00211**
Stddev	.083	.00052	.0521	.0001	.00060
%RSD	.62061	117.27	.53980	.4274	28.438
#1	13.485	-.00081	9.6198	-.0210	.00254
#2	13.367	-.00008	9.6935	-.0209	.00169
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213170-A-9-A Acquired: 10/9/2023 0:59:50 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.00189**	**.00184**	**.0119**
Stddev	.00019	.00019	.00025	.0005
%RSD	24.893	10.134	13.800	4.241
#1	.00062	-.00175	.00166	.0122
#2	.00089	-.00202	.00202	.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11441.**	**11848.**	**70406.**	**5638.8**
Stddev	5.	16.	150.	20.7
%RSD	.04493	.13284	.21356	.36726
#1	11437.	11837.	70512.	5624.2
#2	11444.	11859.	70300.	5653.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.870%	93.730%	93.247%	93.936%
Range				

Sample Name: 480-213170-A-10-A Acquired: 10/9/2023 1:03:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.02031**	**-.00000**	**.31036**	**.03077**
Stddev	.00006	.02954	.00195	.00057	.00000
%RSD	8.4697	145.42	309850.	.18460	.01223
#1	.00074	.04120	-.00138	.31076	.03077
#2	.00066	-.00057	.00138	.30995	.03076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**91.846**	**.00064**	**.0182**	**-.00024**
Stddev	.00016	.574	.00005	.0097	.00004
%RSD	180.20	.62499	7.5778	53.04	15.068
#1	.00020	91.440	.00067	.0114	-.00026
#2	-.00002	92.252	.00061	.0250	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00461**	**2.2701**	**3.4077**	**.05033**
Stddev	.00026	.00030	.0030	.0304	.00212
%RSD	1352.7	6.6101	.13091	.89280	4.2071
#1	.00020	-.00439	2.2722	3.3862	.04883
#2	-.00016	-.00482	2.2680	3.4292	.05183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-10-A Acquired: 10/9/2023 1:03:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.025**	**.02064**	**.02332**	**35.286**	**-.00096**
Stddev	.178	.00006	.00033	.207	.00012
%RSD	.21449	.29308	1.4009	.58588	12.646
#1	82.899	.02069	.02355	35.140	-.00087
#2	83.151	.02060	.02309	35.432	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4197**	**.00181**	**89.055**	**-.00140**	**-.00094**
Stddev	.0010	.00013	.072	.00159	.00158
%RSD	.2491	7.2804	.08090	113.13	168.25
#1	.4190	.00190	89.106	-.00028	.00018
#2	.4205	.00172	89.004	-.00253	-.00206
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.992**	**.00007**	**8.7899**	**-.0384**	**.00134**
Stddev	.059	.00073	.1178	.0046	.00028
%RSD	.53671	1000.8	1.3398	12.00	21.004
#1	10.950	-.00044	8.7066	-.0352	.00114
#2	11.034	.00059	8.8732	-.0417	.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213170-A-10-A Acquired: 10/9/2023 1:03:45 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00088**	**.00187**	**.0124**
Stddev	.00103	.00030	.00027	.0002
%RSD	975.90	34.139	14.444	1.379
#1	.00063	-.00109	.00168	.0125
#2	-.00084	-.00067	.00206	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12368.**	**12384.**	**74009.**	**5688.5**
Stddev	27.	9.	212.	36.6
%RSD	.21867	.07630	.28677	.64366
#1	12349.	12377.	74159.	5714.4
#2	12387.	12391.	73859.	5662.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.748%	97.967%	98.019%	94.763%
Range				

Sample Name: 480-213200-A-1-A Acquired: 10/9/2023 1:07:30 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**-.01150**	**-.00007**	**.00252**	**.00011**
Stddev	.00003	.00887	.00110	.00006	.00001
%RSD	2.5201	77.119	1563.3	2.2235	9.1641
#1	.00121	-.01776	-.00085	.00248	.00010
#2	.00116	-.00523	.00071	.00256	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.01398**	**.00018**	**-.0539**	**-.00006**
Stddev	.00014	.00066	.00012	.0066	.00007
%RSD	273.43	4.7080	67.774	12.26	109.92
#1	-.00005	.01352	.00009	-.0492	-.00011
#2	.00015	.01445	.00027	-.0585	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00430**	**.01835**	**.09130**	**-.00610**
Stddev	.00040	.00006	.00199	.07380	.00229
%RSD	124.12	1.3802	10.853	80.835	37.542
#1	.00004	-.00434	.01694	.03911	-.00448
#2	.00061	-.00425	.01976	.14349	-.00771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-1-A Acquired: 10/9/2023 1:07:30 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00245**	**.00014**	**-.00000**	**-.03649**	**.00193**
Stddev	.00009	.00001	.00021	.01048	.00010
%RSD	3.5393	9.3136	11372.	28.710	5.3745
#1	.00251	.00015	.00015	-.02908	.00200
#2	.00239	.00013	-.00015	-.04390	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4142**	**-.00103**	**.02583**	**.00133**	**-.00299**
Stddev	.0003	.00072	.00194	.00098	.00174
%RSD	.0723	69.643	7.5044	73.685	58.357
#1	.4144	-.00052	.02720	.00203	-.00176
#2	.4140	-.00154	.02446	.00064	-.00422
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02215**	**-.00003**	**.00018**	**-.0341**	**.00015**
Stddev	.01148	.00001	.00012	.0084	.00051
%RSD	51.831	32.130	65.410	24.75	338.46
#1	-.01403	-.00004	.00027	-.0401	.00051
#2	-.03027	-.00003	.00010	-.0281	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-1-A Acquired: 10/9/2023 1:07:30 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.00014**	**.00127**	**.0146**
Stddev	.00049	.00015	.00001	.0009
%RSD	58.166	105.95	.51878	6.016
#1	-.00118	.00024	.00126	.0139
#2	-.00049	.00003	.00127	.0152
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13877.**	**13089.**	**77788.**	**5766.2**
Stddev	30.	46.	247.	37.2
%RSD	.21725	.34789	.31760	.64587
#1	13855.	13057.	77613.	5739.8
#2	13898.	13121.	77963.	5792.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.94%	103.55%	103.02%	96.057%
Range				

Sample Name: 480-213200-A-7-A Acquired: 10/9/2023 1:11:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00377**	**.00065**	**.48712**	**.03003**
Stddev	.00012	.00281	.00038	.00032	.00011
%RSD	21.898	74.482	57.861	.06496	.37979
#1	.00065	.00178	.00092	.48689	.03011
#2	.00047	.00575	.00038	.48734	.02995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**65.034**	**.00045**	**.0151**	**-.00009**
Stddev	.00001	.335	.00007	.0086	.00009
%RSD	4.8916	.51503	15.317	57.16	91.334
#1	.00013	64.797	.00040	.0090	-.00003
#2	.00012	65.271	.00050	.0212	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00451**	**1.2806**	**2.5949**	**.01559**
Stddev	.00010	.00094	.0063	.0186	.00103
%RSD	85.685	20.755	.49606	.71703	6.6218
#1	.00019	-.00385	1.2851	2.6081	.01632
#2	.00005	-.00517	1.2761	2.5818	.01486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-7-A Acquired: 10/9/2023 1:11:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.930**	**.03057**	**.02426**	**51.179**	**-.00018**
Stddev	.054	.00000	.00005	.190	.00006
%RSD	.11072	.00241	.19834	.37152	33.393
#1	48.968	.03057	.02422	51.045	-.00014
#2	48.892	.03057	.02429	51.314	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4280**	**.00126**	**81.131**	**-.00020**	**.00257**
Stddev	.0023	.00019	.017	.00142	.00235
%RSD	.5451	15.215	.02106	707.22	91.427
#1	.4264	.00139	81.143	-.00121	.00091
#2	.4297	.00112	81.119	.00080	.00423
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0800**	**.00002**	F **15.934**	**-.0256**	**.00050**
Stddev	.0177	.00031	.007	.0035	.00036
%RSD	.25044	1828.1	.04091	13.72	72.507
#1	7.0675	.00024	15.939	-.0280	.00024
#2	7.0925	-.00020	15.930	-.0231	.00076
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213200-A-7-A Acquired: 10/9/2023 1:11:12 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00090**	**.00121**	**.0126**
Stddev	.00044	.00022	.00010	.0016
%RSD	186.14	24.341	8.5411	12.50
#1	-.00055	-.00075	.00128	.0137
#2	.00007	-.00106	.00114	.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12489.**	**12440.**	**74075.**	**5723.5**
Stddev	28.	26.	21.	1.9
%RSD	.22087	.21054	.02789	.03304
#1	12469.	12421.	74060.	5722.2
#2	12508.	12458.	74089.	5724.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.645%	98.408%	98.106%	95.347%
Range				

Sample Name: 480-213200-A-7-B MS Acquired: 10/9/2023 1:14:57 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04914**	**10.104**	**.20545**	**.68808**	**.23999**
Stddev	.00038	.042	.00313	.01525	.00142
%RSD	.77223	.41994	1.5247	2.2169	.59124
#1	.04941	10.134	.20767	.69887	.24100
#2	.04887	10.074	.20324	.67729	.23899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19974**	**74.177**	**.20373**	**.0357**	**.20116**
Stddev	.00049	.416	.00445	.0123	.00424
%RSD	.24482	.56072	2.1847	34.36	2.1095
#1	.20009	74.471	.20688	.0443	.20416
#2	.19940	73.883	.20058	.0270	.19816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20557**	**.19439**	**10.719**	**12.561**	**.19991**
Stddev	.00076	.00165	.018	.024	.00132
%RSD	.37066	.84918	.16992	.19379	.65939
#1	.20611	.19556	10.731	12.579	.20084
#2	.20503	.19323	10.706	12.544	.19898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-7-B MS Acquired: 10/9/2023 1:14:57 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.644**	**.22861**	**.23505**	**63.984**	**.19246**
Stddev	.481	.00064	.00585	.004	.00412
%RSD	.83488	.27988	2.4888	.00593	2.1386
#1	57.984	.22906	.23919	63.986	.19537
#2	57.304	.22816	.23091	63.981	.18955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4217**	**.20367**	F **90.219**	**.22504**	**.20010**
Stddev	.0001	.00492	1.904	.00650	.00153
%RSD	.0323	2.4152	2.1098	2.8863	.76250
#1	.4218	.20715	91.565	.22964	.20117
#2	.4216	.20019	88.873	.22045	.19902
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.886**	**.20378**	F **16.103**	**-.0194**	**.20729**
Stddev	.025	.00322	.109	.0266	.00008
%RSD	.14688	1.5820	.67819	137.3	.04007
#1	16.903	.20606	16.180	-.0382	.20735
#2	16.868	.20150	16.026	-.0006	.20723
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213200-A-7-B MS Acquired: 10/9/2023 1:14:57 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20236**	**.20481**	**.19640**	**.0149**
Stddev	.00739	.00122	.00063	.0008
%RSD	3.6501	.59440	.31840	5.431
#1	.20758	.20567	.19684	.0155
#2	.19713	.20395	.19596	.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12269.**	**12484.**	**74252.**	**5630.9**
Stddev	200.	211.	408.	34.4
%RSD	1.6300	1.6901	.54890	.61123
#1	12128.	12335.	73964.	5606.5
#2	12411.	12634.	74541.	5655.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.019%	98.761%	98.341%	93.803%
Range				

Sample Name: 480-213200-A-7-C MSD Acquired: 10/9/2023 1:18:35 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04914**	**10.547**	**.21325**	**.68503**	**.23833**
Stddev	.00011	.472	.00037	.00239	.00083
%RSD	.22213	4.4754	.17168	.34943	.34956
#1	.04906	10.213	.21299	.68334	.23892
#2	.04921	10.880	.21351	.68672	.23774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21508**	**76.876**	**.21017**	**.0378**	**.20832**
Stddev	.00963	3.204	.00009	.0435	.00015
%RSD	4.4772	4.1671	.04281	115.2	.07403
#1	.20827	74.611	.21010	.0685	.20843
#2	.22189	79.141	.21023	.0070	.20821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21134**	**.19892**	**11.444**	**13.081**	**.20443**
Stddev	.00091	.00164	.503	.636	.00568
%RSD	.42860	.82655	4.3945	4.8649	2.7763
#1	.21198	.19776	11.089	12.631	.20041
#2	.21070	.20009	11.800	13.531	.20844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-7-C MSD Acquired: 10/9/2023 1:18:35 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.987**	**.23261**	**.24215**	**65.996**	**.20021**
Stddev	.241	.00069	.00018	2.278	.00009
%RSD	.42345	.29859	.07508	3.4515	.04661
#1	57.158	.23310	.24202	64.385	.20015
#2	56.816	.23212	.24228	67.607	.20028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4244**	**.21114**	**89.161**	**.23434**	**.20818**
Stddev	.0019	.00081	.121	.00065	.00095
%RSD	.4565	.38169	.13528	.27716	.45865
#1	.4231	.21171	89.076	.23388	.20751
#2	.4258	.21057	89.246	.23480	.20886
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.613**	**.20538**	F **16.334**	**-.0382**	**.21252**
Stddev	.755	.00009	.699	.0421	.00016
%RSD	4.2867	.04552	4.2780	110.1	.07322
#1	17.079	.20545	15.840	-.0679	.21241
#2	18.146	.20531	16.829	-.0084	.21263
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213200-A-7-C MSD Acquired: 10/9/2023 1:18:35 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21052**	**.21004**	**.20142**	**.0105**
Stddev	.00005	.00053	.00096	.0034
%RSD	.02598	.25042	.47809	32.50
#1	.21056	.21041	.20210	.0081
#2	.21048	.20967	.20074	.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12390.**	**12624.**	**75160.**	**5571.6**
Stddev	5.	.	235.	152.4
%RSD	.03996	.00072	.31322	2.7351
#1	12387.	12624.	74993.	5679.4
#2	12394.	12624.	75326.	5463.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.916%	99.869%	99.543%	92.816%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 1:22:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0196**	**47.471**	**.99007**	**1.0127**	**.98885**
Stddev	.0030	.037	.00061	.0009	.00104
%RSD	.29666	.07896	.06178	.09126	.10477
#1	1.0218	47.445	.98964	1.0134	.98812
#2	1.0175	47.498	.99050	1.0121	.98958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94337**	**47.308**	**.98828**	**.9101**	**.97740**
Stddev	.00212	.078	.00116	.0927	.00004
%RSD	.22462	.16532	.11749	10.19	.00385
#1	.94487	47.363	.98910	.9757	.97743
#2	.94187	47.253	.98746	.8446	.97738
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0186**	**.97672**	**46.618**	**45.998**	F **.86951**
Stddev	.0028	.00180	.279	.059	.00297
%RSD	.27245	.18381	.59901	.12926	.34117
#1	1.0206	.97799	46.421	46.040	.87161
#2	1.0166	.97545	46.815	45.956	.86741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/9/2023 1:22:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.825**	**.96666**	**1.0158**	**47.203**	**.97227**
Stddev	.146	.00234	.0004	.160	.00079
%RSD	.29330	.24222	.04061	.33944	.08135
#1	49.928	.96832	1.0161	47.316	.97283
#2	49.721	.96501	1.0155	47.090	.97171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.17**	**.98394**	**25.641**	**.99022**	**.98496**
Stddev	.02	.00114	.025	.00066	.00430
%RSD	.0822	.11540	.09662	.06639	.43620
#1	25.19	.98314	25.659	.98975	.98193
#2	25.16	.98475	25.624	.99068	.98800
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4161**	**.97903**	**.98717**	**.9649**	**.99360**
Stddev	.0110	.00041	.00137	.0102	.00126
%RSD	.11703	.04153	.13899	1.056	.12718
#1	9.4239	.97874	.98620	.9577	.99449
#2	9.4083	.97931	.98814	.9721	.99270
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 1:22:14 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98788**	**1.0058**	**1.0159**	**.9819**
Stddev	.00096	.0009	.0006	.0094
%RSD	.09750	.08939	.05448	.9587
#1	.98856	1.0064	1.0163	.9752
#2	.98720	1.0052	1.0155	.9885
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12124.**	**12612.**	**73365.**	**5647.8**
Stddev	9.	9.	19.	50.6
%RSD	.07239	.07394	.02612	.89528
#1	12131.	12605.	73352.	5612.1
#2	12118.	12619.	73379.	5683.6

Sample Name: CCB-7506043 Acquired: 10/9/2023 1:25:48 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**-.01614**	**.00035**	**.00203**	**-.00002**
Stddev	.00010	.04502	.00038	.00012	.00000
%RSD	12.742	278.94	108.67	5.7792	20.754
#1	.00086	.01569	.00062	.00212	-.00002
#2	.00072	-.04797	.00008	.00195	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00342**	**.00001**	**-.0235**	**-.00011**
Stddev	.00024	.00108	.00010	.0215	.00009
%RSD	212.05	31.649	1150.3	91.36	82.027
#1	-.00006	-.00265	-.00006	-.0387	-.00018
#2	.00028	-.00419	.00008	-.0083	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00605**	**.00173**	**.10036**	**-.00373**
Stddev	.00024	.00073	.00369	.03559	.00148
%RSD	2012.9	11.991	212.97	35.466	39.752
#1	-.00016	-.00657	-.00088	.12552	-.00477
#2	.00018	-.00554	.00434	.07519	-.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 1:25:48 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.00004**	**.00012**	**-.03162**	**-.00006**
Stddev	.00062	.00001	.00026	.00002	.00005
%RSD	58.879	15.003	220.69	.05799	80.824
#1	-.00150	.00003	.00030	-.03163	-.00002
#2	-.00062	.00004	-.00007	-.03161	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4174**	**-.00159**	**.02449**	**-.00005**	**.00075**
Stddev	.0007	.00016	.00092	.00039	.00100
%RSD	.1737	10.139	3.7594	710.46	134.47
#1	.4169	-.00171	.02384	.00022	.00146
#2	.4179	-.00148	.02514	-.00033	.00004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01363**	**-.00012**	**.00005**	**-.0261**	**.00027**
Stddev	.01705	.00017	.00009	.0189	.00023
%RSD	125.08	147.91	182.43	72.59	84.009
#1	-.02569	.00001	.00012	-.0394	.00011
#2	-.00158	-.00024	-.00001	-.0127	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 1:25:48 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00011**	**-.00032**	**.0131**
Stddev	.00084	.00022	.00018	.0012
%RSD	240.49	198.15	58.006	9.001
#1	-.00025	-.00027	-.00045	.0122
#2	.00095	.00004	-.00019	.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13967.**	**13107.**	**77603.**	**5781.4**
Stddev	18.	19.	49.	3.3
%RSD	.13057	.14667	.06334	.05721
#1	13954.	13093.	77637.	5779.1
#2	13980.	13120.	77568.	5783.7

Sample Name: CCVL-7610998 Acquired: 10/9/2023 1:29:32 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00657**	**.20568**	**.01355**	**.02118**	**.00206**
Stddev	.00006	.02403	.00042	.00018	.00003
%RSD	.90210	11.685	3.0961	.83200	1.2160
#1	.00662	.22268	.01326	.02105	.00204
#2	.00653	.18869	.01385	.02130	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.48585**	**.00201**	**.0195**	**.00361**
Stddev	.00015	.00363	.00003	.0282	.00002
%RSD	7.1913	.74631	1.7192	144.7	.43598
#1	.00203	.48329	.00203	.0395	.00362
#2	.00225	.48842	.00198	-.0005	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	W **.00548**	**.04720**	**.64003**	**.02200**
Stddev	.00037	.00036	.00014	.00376	.00316
%RSD	8.8428	6.6391	.28843	.58800	14.351
#1	.00388	.00522	.04710	.64269	.01977
#2	.00439	.00573	.04729	.63737	.02423
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		-30.000%			

Sample Name: CCVL-7610998 Acquired: 10/9/2023 1:29:32 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20141**	**.00309**	**.01037**	**.95970**	**.00943**
Stddev	.00036	.00002	.00021	.00521	.00017
%RSD	.18011	.61424	2.0033	.54292	1.8063
#1	.20115	.00310	.01023	.96339	.00931
#2	.20167	.00308	.01052	.95602	.00955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4184**	**.00884**	**.23040**	**.02226**	**.02563**
Stddev	.0004	.00077	.00059	.00150	.00175
%RSD	.0871	8.6872	.25453	6.7312	6.8275
#1	.4187	.00830	.22999	.02120	.02439
#2	.4181	.00939	.23082	.02332	.02686
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43031**	**.00900**	**.00505**	F **-.0228**	**.00525**
Stddev	.01748	.00027	.00002	.0067	.00014
%RSD	4.0620	2.9548	.48418	29.23	2.6512
#1	.44267	.00882	.00503	-.0181	.00535
#2	.41795	.00919	.00506	-.0276	.00516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				-50.00%	

Sample Name: CCVL-7610998 Acquired: 10/9/2023 1:29:32 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01904**	**.00529**	**.00991**	F **.0090**
Stddev	.00013	.00010	.00009	.0007
%RSD	.68820	1.8208	.93667	7.987
#1	.01895	.00522	.00985	.0085
#2	.01914	.00535	.00998	.0095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13820.**	**13094.**	**77210.**	**5719.0**
Stddev	27.	25.	169.	41.1
%RSD	.19400	.19027	.21900	.71954
#1	13839.	13112.	77090.	5748.1
#2	13801.	13077.	77329.	5689.9

Sample Name: 480-213200-A-3-A Acquired: 10/9/2023 1:33:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00065**	**-.00011**	**.35717**	**.01697**
Stddev	.00013	.01377	.00092	.00013	.00000
%RSD	37.295	2124.9	806.02	.03642	.02110
#1	.00043	.00909	.00054	.35708	.01696
#2	.00025	-.01039	-.00077	.35726	.01697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**115.67**	**.00071**	**.0474**	**-.00006**
Stddev	.00007	2.50	.00024	.0159	.00018
%RSD	271.77	2.1573	33.610	33.54	308.69
#1	-.00002	113.91	.00054	.0361	.00007
#2	.00007	117.44	.00087	.0586	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00194**	**.00742**	**4.6682**	**.05595**
Stddev	.00040	.00179	.00447	.1192	.00020
%RSD	332.58	92.207	60.259	2.5529	.35515
#1	.00040	-.00068	.00426	4.5840	.05581
#2	-.00016	-.00321	.01058	4.7525	.05609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-3-A Acquired: 10/9/2023 1:33:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**116.83**	**.00160**	**.02315**	**50.594**	**.00043**
Stddev	.04	.00006	.00020	1.084	.00009
%RSD	.03132	3.9780	.87798	2.1425	20.201
#1	116.85	.00155	.02301	49.828	.00049
#2	116.80	.00164	.02330	51.361	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4214**	**.00105**	F **167.29**	**-.00160**	**-.00174**
Stddev	.0014	.00064	.06	.00153	.00145
%RSD	.3359	61.343	.03448	95.208	83.404
#1	.4204	.00150	167.33	-.00052	-.00277
#2	.4224	.00059	167.25	-.00268	-.00072
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8702**	**-.00020**	F **16.736**	**-.0241**	**.00096**
Stddev	.1899	.00003	.292	.0049	.00009
%RSD	1.9242	14.566	1.7430	20.28	9.0752
#1	9.7359	-.00022	16.530	-.0275	.00102
#2	10.004	-.00018	16.942	-.0206	.00090
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213200-A-3-A Acquired: 10/9/2023 1:33:14 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00137**	**.00552**	**.0135**
Stddev	.00193	.00023	.00006	.0015
%RSD	3632.4	16.684	1.1354	11.00
#1	.00131	-.00121	.00557	.0124
#2	-.00142	-.00153	.00548	.0145
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12265.**	**12425.**	**74211.**	**5568.1**
Stddev	9.	1.	322.	82.2
%RSD	.07114	.00790	.43339	1.4768
#1	12259.	12425.	73984.	5626.3
#2	12271.	12426.	74439.	5510.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.986%	98.295%	98.286%	92.758%
Range				

Sample Name: 480-213200-A-6-A Acquired: 10/9/2023 1:36:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.01309**	**.00094**	**.16775**	**.03190**
Stddev	.00066	.01546	.00034	.00002	.00001
%RSD	161.15	118.13	36.395	.01377	.03907
#1	.00088	.02402	.00118	.16776	.03189
#2	-.00006	.00216	.00070	.16773	.03191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**163.05**	**.00080**	**.0151**	**.00002**
Stddev	.00007	.18	.00007	.0085	.00009
%RSD	38.828	.10937	9.1271	56.24	394.20
#1	.00024	163.17	.00086	.0211	.00009
#2	.00014	162.92	.00075	.0091	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04326**	**-.00426**	**5.0953**	**4.2555**	**.04063**
Stddev	.00582	.00006	.0115	.0213	.00048
%RSD	13.456	1.3397	.22632	.50144	1.1734
#1	.04738	-.00422	5.1035	4.2404	.04030
#2	.03915	-.00430	5.0871	4.2706	.04097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-6-A Acquired: 10/9/2023 1:36:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**121.39**	**.05063**	**.01293**	**45.794**	**.01189**
Stddev	.25	.00053	.00075	.036	.00123
%RSD	.20538	1.0525	5.7938	.07949	10.301
#1	121.21	.05101	.01240	45.769	.01103
#2	121.57	.05025	.01346	45.820	.01276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4296**	**.00095**	F **170.82**	**-.00142**	**.00048**
Stddev	.0063	.00076	.04	.00180	.00025
%RSD	1.462	80.355	.02267	127.13	52.584
#1	.4340	.00041	170.79	-.00014	.00065
#2	.4252	.00148	170.85	-.00269	.00030
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.008**	**-.00068**	F **14.634**	**-.0344**	**.00204**
Stddev	.020	.00078	.079	.0025	.00018
%RSD	.17885	115.30	.53827	7.363	8.7557
#1	10.994	-.00013	14.578	-.0326	.00216
#2	11.022	-.00124	14.689	-.0362	.00191
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213200-A-6-A Acquired: 10/9/2023 1:36:59 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00110**	**.00067**	**.0123**
Stddev	.00016	.00031	.00005	.0003
%RSD	31.743	27.806	6.7630	2.745
#1	.00038	-.00132	.00064	.0126
#2	.00060	-.00089	.00070	.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12176.**	**12376.**	**72335.**	**5669.0**
Stddev	18.	17.	131.	18.0
%RSD	.14813	.13942	.18134	.31767
#1	12163.	12363.	72428.	5681.7
#2	12188.	12388.	72242.	5656.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.322%	97.901%	95.801%	94.438%
Range				

Sample Name: 480-213200-A-9-A Acquired: 10/9/2023 1:40:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.00090**	**.00300**	**.26931**	**.06879**
Stddev	.00024	.03340	.00021	.00070	.00008
%RSD	35.137	3692.6	6.8412	.26119	.12182
#1	.00085	.02453	.00315	.26881	.06885
#2	.00051	-.02272	.00286	.26981	.06873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**52.354**	**.00057**	**.0048**	**-.00022**
Stddev	.00010	.142	.00004	.0106	.00028
%RSD	224.26	.27120	6.2685	222.2	126.93
#1	-.00003	52.454	.00054	-.0027	-.00002
#2	.00011	52.253	.00059	.0122	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00327**	**.47880**	**2.8430**	**.01641**
Stddev	.00013	.00135	.00208	.0265	.00108
%RSD	24.249	41.202	.43517	.93156	6.5563
#1	.00045	-.00232	.48027	2.8243	.01565
#2	.00064	-.00422	.47732	2.8618	.01717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-9-A Acquired: 10/9/2023 1:40:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.548**	**.02052**	**.01449**	**34.168**	**-.00012**
Stddev	.049	.00008	.00004	.110	.00007
%RSD	.09406	.36745	.24295	.32237	60.172
#1	52.583	.02057	.01452	34.246	-.00017
#2	52.513	.02047	.01447	34.090	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4367**	**.00131**	**34.593**	**-.00091**	**.00087**
Stddev	.0029	.00130	.048	.00085	.00231
%RSD	.6635	99.446	.13819	92.799	264.28
#1	.4387	.00223	34.559	-.00031	.00251
#2	.4346	.00039	34.627	-.00151	-.00076
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1646**	**-.00030**	F **16.622**	**-.0450**	**.00092**
Stddev	.0126	.00019	.120	.0012	.00025
%RSD	.15372	63.199	.72372	2.633	27.062
#1	8.1557	-.00016	16.707	-.0459	.00110
#2	8.1735	-.00043	16.537	-.0442	.00075
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-213200-A-9-A Acquired: 10/9/2023 1:40:42 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00078**	**.00097**	**.0124**
Stddev	.00056	.00022	.00018	.0016
%RSD	171.47	28.269	18.142	12.53
#1	-.00007	-.00094	.00110	.0136
#2	.00072	-.00063	.00085	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12586.**	**12531.**	**73931.**	**5664.6**
Stddev	18.	14.	69.	48.7
%RSD	.14594	.10949	.09388	.86008
#1	12574.	12521.	73882.	5630.1
#2	12599.	12541.	73980.	5699.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.370%	99.131%	97.916%	94.365%
Range				

Sample Name: 480-213200-A-10-A Acquired: 10/9/2023 1:44:25 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.01090**	**.00732**	**.17942**	**.03259**
Stddev	.00094	.02630	.00193	.00028	.00001
%RSD	232.98	241.32	26.369	.15657	.01883
#1	-.00026	.00770	.00868	.17962	.03260
#2	.00106	-.02950	.00595	.17922	.03259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**113.73**	**.00065**	**-.0358**	**.00000**
Stddev	.00006	.48	.00027	.0416	.00005
%RSD	73.527	.42541	41.288	116.2	7234.0
#1	.00012	114.07	.00085	-.0064	-.00004
#2	.00004	113.39	.00046	-.0652	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00346**	**2.0850**	**3.7060**	**.08787**
Stddev	.00013	.00009	.0005	.0127	.00194
%RSD	38.076	2.6641	.02354	.34131	2.2120
#1	.00025	-.00339	2.0853	3.6971	.08925
#2	.00043	-.00352	2.0846	3.7150	.08650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-10-A Acquired: 10/9/2023 1:44:25 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**100.06**	**.15125**	**.02810**	**46.409**	**.00057**
Stddev	.18	.00055	.00019	.244	.00018
%RSD	.18398	.36504	.68178	.52553	32.202
#1	100.19	.15164	.02824	46.582	.00044
#2	99.930	.15086	.02797	46.237	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4211**	**.00198**	**67.594**	**-.00270**	**-.00268**
Stddev	.0005	.00068	.130	.00338	.00064
%RSD	.1198	34.435	.19275	125.41	23.688
#1	.4215	.00246	67.502	-.00509	-.00223
#2	.4208	.00149	67.686	-.00031	-.00313
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2286**	**-.00022**	**3.0214**	**-.0099**	**.00160**
Stddev	.0080	.00031	.0076	.0066	.00051
%RSD	.08720	141.68	.25005	66.40	31.957
#1	9.2229	.00000	3.0267	-.0146	.00196
#2	9.2343	-.00044	3.0160	-.0053	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-213200-A-10-A Acquired: 10/9/2023 1:44:25 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.00119**	**.00112**	**.0115**
Stddev	.00090	.00004	.00068	.0038
%RSD	142.92	3.3133	60.989	32.78
#1	-.00126	-.00116	.00064	.0141
#2	.00001	-.00122	.00161	.0088
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12194.**	**12362.**	**73397.**	**5630.9**
Stddev	5.	2.	219.	15.1
%RSD	.04046	.01771	.29795	.26764
#1	12197.	12361.	73242.	5641.5
#2	12190.	12364.	73551.	5620.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.456%	97.796%	97.208%	93.803%
Range				

Sample Name: rinse Acquired: 10/9/2023 1:48:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.04273**	**.00093**	**-.00129**	**-.00016**
Stddev	.00014	.00620	.00008	.00017	.00000
%RSD	34.552	14.506	8.4520	12.969	.57933
#1	.00031	-.04711	.00088	-.00117	-.00016
#2	.00051	-.03834	.00099	-.00141	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**-.00946**	**-.00008**	**-.0239**	**-.00019**
Stddev	.00000	.00150	.00002	.0062	.00001
%RSD	.45041	15.883	22.859	25.82	7.8323
#1	.00072	-.00840	-.00007	-.0282	-.00020
#2	.00073	-.01053	-.00009	-.0195	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	F **-.02266**	**-.00326**	**.16680**	**-.00310**
Stddev	.00001	.00001	.00100	.01576	.00022
%RSD	1.5707	.06190	30.712	9.4462	7.1340
#1	-.00085	-.02265	-.00397	.15566	-.00294
#2	-.00087	-.02267	-.00255	.17794	-.00326
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		23.000			
Low Limit		-.01000			

Sample Name: rinse Acquired: 10/9/2023 1:48:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00031**	**-.00016**	**-.07359**	**.00078**
Stddev	.00053	.00002	.00001	.00147	.00000
%RSD	249.76	6.9673	7.2098	1.9919	.07733
#1	-.00058	-.00029	-.00015	-.07255	.00078
#2	.00016	-.00032	-.00017	-.07463	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4061**	**-.00102**	**-.03655**	**.00597**	**.00804**
Stddev	.0001	.00002	.00019	.00020	.00009
%RSD	.0220	2.0849	.51856	3.2984	1.1527
#1	.4061	-.00104	-.03642	.00583	.00811
#2	.4062	-.00101	-.03668	.00611	.00797
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06441**	**-.00076**	**-.00009**	**-.0250**	**.00185**
Stddev	.00037	.00004	.00002	.0033	.00018
%RSD	.56981	5.0098	23.180	13.25	9.6801
#1	-.06467	-.00074	-.00008	-.0227	.00198
#2	-.06415	-.00079	-.00011	-.0274	.00173
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 10/9/2023 1:48:01 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00043**	**-.00089**	**.0141**
Stddev	.00011	.00007	.00002	.0003
%RSD	65.851	16.787	2.7510	2.314
#1	-.00025	.00038	-.00091	.0139
#2	-.00009	.00049	-.00087	.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**46681.**	**43852.**	**252060.**	**18589.**
Stddev	1028.	1034.	269.	881.
%RSD	2.2029	2.3587	.10654	4.7410
#1	45953.	43120.	251870.	17966.
#2	47408.	44583.	252250.	19213.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	346.29%	346.90%	333.83%	309.68%
Range				

Sample Name: MB 480-684688/1-A Acquired: 10/9/2023 1:51:46 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	F **-.04023**	**.00109**	**-.00152**	**-.00016**
Stddev	.00005	.00515	.00011	.00005	.00001
%RSD	119.99	12.793	9.7665	3.3846	3.9518
#1	.00001	-.04387	.00116	-.00156	-.00016
#2	.00008	-.03659	.00101	-.00149	-.00016
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.04000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**-.01055**	**-.00006**	**-.0089**	**-.00015**
Stddev	.00000	.00075	.00004	.0036	.00003
%RSD	.13008	7.0904	70.034	40.32	19.690
#1	.00070	-.01002	-.00003	-.0114	-.00017
#2	.00070	-.01107	-.00010	-.0063	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	F **-.02271**	**-.00277**	**.17066**	**-.00382**
Stddev	.00006	.00054	.00076	.00095	.00023
%RSD	7.6093	2.3839	27.613	.55943	6.0579
#1	-.00072	-.02232	-.00223	.17134	-.00365
#2	-.00081	-.02309	-.00331	.16999	-.00398
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.00400			

Sample Name: MB 480-684688/1-A Acquired: 10/9/2023 1:51:46 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**-.00028**	**-.00013**	**-.07618**	**.00071**
Stddev	.00055	.00003	.00008	.00354	.00006
%RSD	85.774	11.256	59.961	4.6444	8.9483
#1	-.00025	-.00031	-.00008	-.07869	.00075
#2	-.00102	-.00026	-.00019	-.07368	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4063**	**-.00037**	**-.03816**	**.00562**	**.00687**
Stddev	.0001	.00025	.00007	.00053	.00002
%RSD	.0273	67.798	.17912	9.4517	.27096
#1	.4062	-.00019	-.03811	.00524	.00686
#2	.4064	-.00055	-.03821	.00599	.00689
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06632**	**-.00084**	**-.00011**	**-.0323**	**.00182**
Stddev	.00089	.00013	.00001	.0006	.00005
%RSD	1.3470	15.063	12.676	1.887	2.9010
#1	-.06569	-.00093	-.00013	-.0319	.00185
#2	-.06695	-.00075	-.00010	-.0328	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-684688/1-A Acquired: 10/9/2023 1:51:46 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00050**	**-.00085**	**.0142**
Stddev	.00055	.00004	.00001	.0001
%RSD	384.92	8.3657	1.3510	.4589
#1	-.00053	.00053	-.00086	.0142
#2	.00025	.00047	-.00085	.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**45989.**	**43245.**	**246130.**	**17336.**
Stddev	790.	758.	3186.	197.
%RSD	1.7183	1.7527	1.2946	1.1372
#1	45430.	42709.	248390.	17476.
#2	46548.	43781.	243880.	17197.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	341.16%	342.10%	325.98%	288.80%
Range				

Sample Name: LCS 480-684688/2-A Acquired: 10/9/2023 1:55:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .00020	F -.04606	F .00078	F -.00137	F -.00015
Stddev	.00034	.00351	.00009	.00000	.00001
%RSD	173.54	7.6202	11.150	.14189	6.0717
#1	.00043	-.04855	.00072	-.00138	-.00016
#2	-.00004	-.04358	.00084	-.00137	-.00015
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.05750	11.500	.23000	.23000	.23000
Low Limit	.04250	8.5000	.17000	.17000	.17000

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .00070	F -.01097	F -.00003	-.0227	F -.00018
Stddev	.00003	.00072	.00002	.0095	.00001
%RSD	4.2599	6.5914	55.644	41.97	3.3456
#1	.00072	-.01046	-.00005	-.0160	-.00018
#2	.00068	-.01148	-.00002	-.0294	-.00018
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
High Limit	.23000	11.500	.23000		.23000
Low Limit	.17000	8.5000	.17000		.17000

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F -.00095	F -.02321	F -.00428	F .15939	F -.00325
Stddev	.00000	.00090	.00070	.00251	.00031
%RSD	.48395	3.8605	16.354	1.5745	9.5375
#1	-.00095	-.02257	-.00379	.15762	-.00303
#2	-.00096	-.02384	-.00478	.16117	-.00347
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	.23000	11.500	11.500	12.000
Low Limit	.17000	.17000	8.5000	8.5000	.17000

Sample Name: LCS 480-684688/2-A Acquired: 10/9/2023 1:55:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00002**	F **-.00029**	F **-.00011**	F **-.07296**	F **.00080**
Stddev	.00081	.00000	.00006	.00313	.00001
%RSD	3278.9	.75318	54.201	4.2908	1.4379
#1	.00055	-.00029	-.00015	-.07517	.00081
#2	-.00060	-.00029	-.00007	-.07075	.00080
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	11.500	.23000	.23000	11.500	.23000
Low Limit	8.5000	.17000	.17000	8.5000	.17000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4060**	F **-.00099**	F **-.03896**	F **.00542**	F **.00765**
Stddev	.0001	.00022	.00025	.00001	.00064
%RSD	.0164	22.358	.64434	.18066	8.3008
#1	.4060	-.00083	-.03878	.00542	.00810
#2	.4061	-.00114	-.03913	.00543	.00721
Check ?	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		.23000	11.500	.23000	.23000
Low Limit		.17000	8.5000	.17000	.17000

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.06338**	F **-.00074**	F **-.00004**	**-.0300**	F **.00188**
Stddev	.00318	.00004	.00005	.0099	.00002
%RSD	5.0166	6.0711	122.12	33.07	1.0613
#1	-.06113	-.00071	-.00001	-.0370	.00189
#2	-.06563	-.00077	-.00007	-.0230	.00186
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
High Limit	11.500	.23000	.23000		.23000
Low Limit	8.5000	.17000	.17000		.17000

Sample Name: LCS 480-684688/2-A Acquired: 10/9/2023 1:55:33 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	F **.00013**	F **.00035**	F **-.00092**	**.0137**
Stddev	.00022	.00000	.00005	.0005
%RSD	165.76	1.1755	5.6725	3.736
#1	-.00002	.00034	-.00088	.0133
#2	.00029	.00035	-.00096	.0140
Check ?	Chk Fail	Chk Fail	Chk Fail	None
High Limit	.23000	.23000	.23000	
Low Limit	.17000	.17000	.17000	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**46625.**	**43849.**	**249890.**	**17545.**
Stddev	5.	8.	1329.	290.
%RSD	.01002	.01811	.53189	1.6515
#1	46622.	43855.	250830.	17340.
#2	46629.	43844.	248950.	17750.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	345.88%	346.88%	330.96%	292.27%
Range				

Sample Name: 480-212996-B-1-A Acquired: 10/9/2023 1:59:19 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.05312**	**.00136**	**-.00140**	**-.00016**
Stddev	.00002	.00640	.00003	.00002	.00000
%RSD	10.828	12.040	2.0089	1.4630	.31482
#1	.00017	-.05764	.00138	-.00139	-.00015
#2	.00020	-.04860	.00134	-.00142	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**-.00937**	**-.00005**	**-.0169**	**-.00015**
Stddev	.00000	.00239	.00004	.0190	.00000
%RSD	.06793	25.464	73.511	112.2	3.2678
#1	.00068	-.00768	-.00008	-.0035	-.00014
#2	.00068	-.01106	-.00002	-.0303	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	F **-.02372**	**-.00291**	**.16398**	**-.00341**
Stddev	.00002	.00130	.00110	.00005	.00071
%RSD	2.1443	5.4745	37.778	.03266	20.853
#1	-.00099	-.02280	-.00214	.16394	-.00291
#2	-.00096	-.02464	-.00369	.16401	-.00391
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		23.000			
Low Limit		-.01000			

Sample Name: 480-212996-B-1-A Acquired: 10/9/2023 1:59:19 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00030**	**-.00020**	**-.07765**	**.00078**
Stddev	.00004	.00004	.00001	.00420	.00002
%RSD	42.596	11.631	3.0369	5.4078	2.8193
#1	-.00012	-.00033	-.00020	-.08062	.00079
#2	-.00006	-.00028	-.00021	-.07468	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4065**	**-.00084**	**-.03928**	**.00533**	**.00776**
Stddev	.0006	.00008	.00011	.00021	.00054
%RSD	.1440	9.4059	.27747	4.0205	6.9924
#1	.4069	-.00078	-.03935	.00548	.00814
#2	.4061	-.00089	-.03920	.00518	.00737
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06912**	**-.00059**	**-.00011**	**-.0324**	**.00191**
Stddev	.00396	.00004	.00001	.0047	.00016
%RSD	5.7350	7.1488	6.5832	14.53	8.1571
#1	-.06631	-.00056	-.00011	-.0358	.00180
#2	-.07192	-.00062	-.00010	-.0291	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-1-A Acquired: 10/9/2023 1:59:19 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00036**	**-.00092**	**.0138**
Stddev	.00005	.00012	.00008	.0022
%RSD	64.907	33.219	8.9018	16.33
#1	-.00004	.00028	-.00098	.0153
#2	-.00011	.00045	-.00086	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**46757.**	**44005.**	**247630.**	**17415.**
Stddev	880.	833.	4168.	129.
%RSD	1.8828	1.8924	1.6832	.74257
#1	47379.	44594.	250580.	17324.
#2	46134.	43416.	244690.	17507.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	346.86%	348.12%	327.97%	290.12%
Range				

Sample Name: 480-212996-B-1-Asd@5 Acquired: 10/9/2023 2:03:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.03390**	**.00057**	**-.00143**	**-.00017**
Stddev	.00025	.01143	.00029	.00008	.00001
%RSD	120.06	33.721	51.482	5.8995	6.6526
#1	.00003	-.02582	.00036	-.00137	-.00017
#2	.00038	-.04199	.00078	-.00149	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00964**	**-.00005**	**-.0046**	**-.00017**
Stddev	.00001	.00058	.00002	.0002	.00001
%RSD	1.7316	6.0407	46.310	3.484	3.9920
#1	.00075	-.01005	-.00007	-.0047	-.00016
#2	.00074	-.00923	-.00003	-.0045	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	F **-.02053**	**-.00417**	**.15483**	**-.00314**
Stddev	.00010	.00013	.00127	.01136	.00081
%RSD	10.904	.61534	30.371	7.3342	25.762
#1	-.00089	-.02062	-.00506	.14680	-.00257
#2	-.00103	-.02044	-.00327	.16286	-.00371
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		23.000			
Low Limit		-.01000			

Sample Name: 480-212996-B-1-Asd@5 Acquired: 10/9/2023 2:03:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00029**	**-.00014**	**-.07167**	**.00087**
Stddev	.00035	.00000	.00001	.00229	.00003
%RSD	136.52	1.5719	6.5683	3.1969	3.9113
#1	.00050	-.00029	-.00014	-.07329	.00084
#2	.00001	-.00029	-.00013	-.07005	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4064**	**-.00064**	**-.04141**	**.00556**	**.00776**
Stddev	.0003	.00013	.00099	.00024	.00006
%RSD	.0617	19.805	2.3948	4.3700	.73872
#1	.4066	-.00073	-.04071	.00573	.00780
#2	.4062	-.00055	-.04211	.00539	.00772
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06774**	**-.00062**	**-.00004**	**-.0306**	**.00183**
Stddev	.00265	.00008	.00007	.0123	.00004
%RSD	3.9077	12.291	154.04	40.32	2.1579
#1	-.06587	-.00057	-.00009	-.0393	.00186
#2	-.06961	-.00068	.00000	-.0219	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-1-Asd@5 Acquired: 10/9/2023 2:03:06 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00036**	**-.00087**	**.0140**
Stddev	.00003	.00010	.00002	.0009
%RSD	8.7892	27.326	1.7795	6.683
#1	-.00037	.00029	-.00088	.0147
#2	-.00042	.00042	-.00086	.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**46461.**	**43733.**	**253180.**	**17951.**
Stddev	1014.	960.	667.	641.
%RSD	2.1822	2.1955	.26331	3.5682
#1	45744.	43054.	252700.	17498.
#2	47178.	44412.	253650.	18404.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	344.66%	345.97%	335.31%	299.04%
Range				

Sample Name: CCV-7538313 Acquired: 10/9/2023 2:06:54 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0310**	**47.958**	**.99818**	**1.0131**	**1.0023**
Stddev	.0016	.133	.00652	.0053	.0017
%RSD	.15448	.27684	.65344	.51863	.17174
#1	1.0299	48.052	.99356	1.0094	1.0035
#2	1.0322	47.864	1.0028	1.0169	1.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95777**	**47.710**	**.99225**	**.9465**	**.98364**
Stddev	.00191	.160	.00414	.0872	.00493
%RSD	.19964	.33587	.41756	9.213	.50080
#1	.95912	47.824	.98932	1.008	.98016
#2	.95641	47.597	.99518	.8848	.98713
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0231**	**.98600**	**46.817**	**46.765**	F **.87979**
Stddev	.0004	.00073	.115	.006	.00406
%RSD	.04057	.07431	.24464	.01309	.46152
#1	1.0234	.98549	46.736	46.761	.88266
#2	1.0228	.98652	46.898	46.769	.87692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/9/2023 2:06:54 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.207**	**.98001**	**1.0151**	**48.007**	**.98400**
Stddev	.021	.00016	.0050	.239	.00411
%RSD	.04121	.01660	.49755	.49722	.41760
#1	50.221	.97989	1.0115	48.176	.98110
#2	50.192	.98012	1.0187	47.838	.98691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.21**	**.99013**	**25.739**	**.99803**	**.99233**
Stddev	.09	.00218	.121	.00642	.00444
%RSD	.3684	.22011	.46920	.64292	.44791
#1	25.14	.98859	25.654	.99349	.98919
#2	25.28	.99167	25.825	1.0026	.99547
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4837**	**.98749**	**.99979**	**.9539**	**1.0005**
Stddev	.0933	.00455	.00092	.0003	.0022
%RSD	.98415	.46070	.09208	.0337	.22513
#1	9.5497	.98428	1.0004	.9536	.99894
#2	9.4177	.99071	.99914	.9541	1.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 2:06:54 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99412**	**1.0112**	**1.0196**	**.9862**
Stddev	.00507	.0009	.0002	.0017
%RSD	.50989	.09327	.01914	.1722
#1	.99053	1.0118	1.0195	.9850
#2	.99770	1.0105	1.0198	.9874
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12051.**	**12556.**	**73118.**	**5564.8**
Stddev	33.	23.	35.	46.4
%RSD	.27161	.18198	.04828	.83436
#1	12074.	12572.	73143.	5532.0
#2	12028.	12539.	73093.	5597.7

Sample Name: CCB-7506043 Acquired: 10/9/2023 2:10:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.03248**	**-.00104**	**.00116**	**-.00002**
Stddev	.00170	.01850	.00026	.00019	.00002
%RSD	1964.3	56.955	25.230	16.155	141.91
#1	.00112	.04557	-.00123	.00129	-.00003
#2	-.00129	.01940	-.00085	.00102	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00381**	**-.00006**	**-.0085**	**-.00001**
Stddev	.00007	.00000	.00011	.0186	.00004
%RSD	42.848	.02826	183.46	219.4	658.25
#1	.00011	-.00380	-.00013	.0047	-.00004
#2	.00021	-.00381	.00002	-.0217	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00442**	**.00152**	**.11382**	**-.00366**
Stddev	.00005	.00022	.00273	.02372	.00079
%RSD	11.380	4.9139	178.91	20.839	21.523
#1	-.00046	-.00427	-.00040	.09705	-.00421
#2	-.00039	-.00458	.00345	.13059	-.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 2:10:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00001**	**.00001**	**-.04211**	**.00009**
Stddev	.00068	.00003	.00029	.01113	.00024
%RSD	241.28	253.88	3150.5	26.442	264.48
#1	-.00076	-.00001	.00022	-.04998	-.00008
#2	.00020	.00004	-.00020	-.03424	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4184**	**-.00185**	**.01571**	**-.00134**	**.00012**
Stddev	.0014	.00049	.00338	.00228	.00109
%RSD	.3320	26.508	21.525	170.20	887.61
#1	.4174	-.00220	.01332	.00027	.00089
#2	.4194	-.00150	.01810	-.00295	-.00065
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03003**	**-.00049**	**-.00002**	**-.0280**	**.00039**
Stddev	.02420	.00016	.00004	.0039	.00006
%RSD	80.582	32.281	243.76	14.12	14.727
#1	-.01292	-.00038	-.00004	-.0308	.00035
#2	-.04714	-.00060	.00001	-.0252	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 2:10:27 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00010**	**-.00034**	**.0101**
Stddev	.00002	.00030	.00028	.0010
%RSD	4.0021	289.59	81.587	9.778
#1	.00055	-.00011	-.00054	.0094
#2	.00052	.00032	-.00014	.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13860.**	**13024.**	**76940.**	**5597.9**
Stddev	34.	37.	213.	24.7
%RSD	.24399	.28191	.27661	.44062
#1	13836.	12998.	77091.	5580.4
#2	13884.	13050.	76790.	5615.3

Sample Name: CCVL-7610998 Acquired: 10/9/2023 2:14:10 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00017**	F **-.04541**	F **.00105**	F **-.00161**	F **-.00016**
Stddev	.00002	.00732	.00011	.00007	.00000
%RSD	13.531	16.123	10.109	4.4865	.41698
#1	.00019	-.05059	.00112	-.00156	-.00016
#2	.00015	-.04024	.00097	-.00166	-.00016
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.00600	.20000	.01500	.02000	.00200
Range	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00070**	F **-.01152**	F **-.00004**	**-.0152**	F **-.00015**
Stddev	.00008	.00064	.00002	.0008	.00003
%RSD	10.934	5.5401	52.372	5.092	17.351
#1	.00075	-.01197	-.00003	-.0146	-.00017
#2	.00064	-.01107	-.00006	-.0157	-.00013
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
Value	.00200	.50000	.00200		.00400
Range	-50.000%	-50.000%	-50.000%		-50.000%

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00087**	F **-.02307**	F **-.00365**	F **.15331**	F **-.00387**
Stddev	.00009	.00259	.00100	.01302	.00002
%RSD	10.448	11.246	27.395	8.4932	.53039
#1	-.00093	-.02124	-.00294	.14410	-.00386
#2	-.00081	-.02491	-.00436	.16252	-.00389
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.00400	.01000	.05000	.50000	.03000
Range	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Sample Name: CCVL-7610998 Acquired: 10/9/2023 2:14:10 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00054**	F **-.00030**	F **-.00017**	F **-.07839**	F **.00084**
Stddev	.00051	.00001	.00009	.00450	.00001
%RSD	93.089	3.0253	52.115	5.7383	1.7410
#1	-.00019	-.00029	-.00011	-.07521	.00085
#2	-.00090	-.00031	-.00023	-.08157	.00083
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.20000	.00300	.01000	1.0000	.01000
Range	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4066**	F **-.00089**	F **-.04161**	F **.00578**	F **.00744**
Stddev	.0002	.00006	.00044	.00008	.00079
%RSD	.0404	6.8117	1.0690	1.3908	10.561
#1	.4067	-.00093	-.04129	.00573	.00688
#2	.4065	-.00084	-.04192	.00584	.00799
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.0060	.01000	.20000	.02000	.02500
Range	50.00%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.06573**	F **-.00088**	F **-.00003**	F **-.0334**	F **.00188**
Stddev	.00099	.00004	.00002	.0022	.00001
%RSD	1.4990	4.4576	77.461	6.692	.63255
#1	-.06643	-.00091	-.00004	-.0318	.00187
#2	-.06503	-.00085	-.00001	-.0350	.00189
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	.01000	.00500	.0060	.00500
Range	-50.000%	-50.000%	-50.000%	-50.00%	-50.000%

Sample Name: CCVL-7610998 Acquired: 10/9/2023 2:14:10 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	F **.00001**	F **.00037**	F **-.00082**	F **.0133**
Stddev	.00006	.00000	.00008	.0005
%RSD	563.28	.45755	9.3090	3.763
#1	-.00003	.00037	-.00077	.0129
#2	.00006	.00038	-.00087	.0136
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.02000	.00500	.01000	.0060
Range	-50.000%	-50.000%	-50.000%	50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**47136.**	**44415.**	**250910.**	**17529.**
Stddev	963.	885.	1162.	212.
%RSD	2.0437	1.9930	.46313	1.2088
#1	46455.	43789.	251730.	17679.
#2	47817.	45041.	250080.	17379.

Sample Name: 480-212996-B-1-APDS Acquired: 10/9/2023 2:17:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.04403**	**.00090**	**-.00151**	**-.00015**
Stddev	.00035	.00114	.00024	.00004	.00001
%RSD	1011.3	2.5787	26.870	2.4577	4.0358
#1	.00021	-.04323	.00107	-.00154	-.00016
#2	-.00028	-.04483	.00073	-.00149	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.01131**	**-.00005**	**-.0141**	**-.00015**
Stddev	.00003	.00020	.00001	.0112	.00008
%RSD	5.0268	1.7337	19.221	79.69	52.950
#1	.00064	-.01117	-.00006	-.0061	-.00009
#2	.00069	-.01145	-.00004	-.0220	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	F **-.02597**	**-.00290**	**.14205**	**-.00287**
Stddev	.00008	.00271	.00091	.00398	.00021
%RSD	8.6772	10.426	31.254	2.8014	7.3095
#1	-.00093	-.02406	-.00354	.14486	-.00273
#2	-.00082	-.02789	-.00226	.13923	-.00302
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		23.000			
Low Limit		-.01000			

Sample Name: 480-212996-B-1-APDS Acquired: 10/9/2023 2:17:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00031**	**-.00017**	**-.07760**	**.00100**
Stddev	.00063	.00001	.00008	.01016	.00015
%RSD	119.44	1.7891	48.819	13.096	14.605
#1	-.00098	-.00031	-.00023	-.08479	.00110
#2	-.00008	-.00030	-.00011	-.07042	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4059**	**-.00049**	**-.04140**	**.00615**	**.00789**
Stddev	.0005	.00021	.00076	.00027	.00180
%RSD	.1145	43.206	1.8442	4.4087	22.841
#1	.4062	-.00063	-.04086	.00634	.00917
#2	.4056	-.00034	-.04194	.00595	.00662
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07069**	**-.00083**	**-.00007**	**-.0298**	**.00177**
Stddev	.00668	.00011	.00002	.0072	.00018
%RSD	9.4562	12.841	31.361	24.08	10.422
#1	-.07541	-.00076	-.00008	-.0247	.00164
#2	-.06596	-.00091	-.00005	-.0348	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-1-APDS Acquired: 10/9/2023 2:17:56 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00040**	**-.00083**	**.0141**
Stddev	.00037	.00009	.00005	.0005
%RSD	398.86	23.342	6.5360	3.805
#1	.00017	.00047	-.00079	.0145
#2	-.00036	.00034	-.00086	.0138
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**47401.**	**44589.**	**243310.**	**17853.**
Stddev	122.	115.	1663.	566.
%RSD	.25667	.25819	.68365	3.1716
#1	47315.	44507.	244480.	18254.
#2	47487.	44670.	242130.	17453.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	351.63%	352.73%	322.24%	297.41%
Range				

Sample Name: 480-212996-B-1-B MS Acquired: 10/9/2023 2:21:43 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04662**	**9.7585**	**.19543**	**.20547**	**.25524**
Stddev	.00042	.2312	.00188	.00036	.00067
%RSD	.90889	2.3689	.96086	.17723	.26177
#1	.04632	9.5950	.19410	.20573	.25571
#2	.04692	9.9219	.19676	.20521	.25477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20042**	**107.45**	**.19385**	**.0592**	**.19270**
Stddev	.00479	2.77	.00003	.0014	.00049
%RSD	2.3897	2.5760	.01713	2.401	.25554
#1	.19703	105.49	.19383	.0602	.19305
#2	.20381	109.41	.19388	.0581	.19235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19880**	**.20775**	**9.4875**	**10.672**	**.16978**
Stddev	.00037	.00058	.2522	.210	.00022
%RSD	.18590	.28140	2.6585	1.9661	.13226
#1	.19907	.20734	9.3091	10.524	.16963
#2	.19854	.20817	9.6658	10.820	.16994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-1-B MS Acquired: 10/9/2023 2:21:43 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.029**	**.19106**	**.19926**	**31.079**	**.18551**
Stddev	.332	.00022	.00019	.785	.00072
%RSD	.53506	.11560	.09403	2.5250	.38628
#1	62.264	.19122	.19939	30.524	.18602
#2	61.795	.19091	.19913	31.634	.18500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4390**	**.19720**	**18.687**	**.21346**	**.18862**
Stddev	.0003	.00020	.008	.00024	.00043
%RSD	.0734	.10152	.04296	.11121	.22559
#1	.4392	.19706	18.692	.21329	.18892
#2	.4388	.19734	18.681	.21363	.18831
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.172**	**.19004**	**.30010**	**-.0164**	**.19897**
Stddev	.469	.00064	.00736	.0005	.00026
%RSD	2.7313	.33470	2.4542	3.152	.13097
#1	16.840	.18959	.29489	-.0161	.19878
#2	17.503	.19049	.30530	-.0168	.19915
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-1-B MS Acquired: 10/9/2023 2:21:43 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19787**	**.19654**	**.19066**	**.0123**
Stddev	.00150	.00050	.00099	.0004
%RSD	.75963	.25228	.51889	2.992
#1	.19680	.19689	.19136	.0121
#2	.19893	.19619	.18996	.0126
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12540.**	**12870.**	**75090.**	**5592.2**
Stddev	4.	14.	553.	75.8
%RSD	.03139	.10710	.73663	1.3558
#1	12538.	12860.	74699.	5645.8
#2	12543.	12880.	75481.	5538.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.028%	101.81%	99.451%	93.159%
Range				

Sample Name: 480-212996-B-1-C MSD Acquired: 10/9/2023 2:25:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04798**	**10.430**	**.21043**	**.21876**	**.27006**
Stddev	.00062	.359	.00144	.00265	.00090
%RSD	1.2841	3.4414	.68299	1.2102	.33451
#1	.04755	10.176	.20941	.21689	.27070
#2	.04842	10.684	.21144	.22063	.26942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21558**	**114.92**	**.20687**	**.0642**	**.20704**
Stddev	.00834	3.73	.00152	.0463	.00151
%RSD	3.8691	3.2486	.73475	72.18	.72838
#1	.20968	112.28	.20579	.0969	.20597
#2	.22148	117.56	.20794	.0314	.20810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20877**	**.22228**	**10.090**	**11.311**	**.18053**
Stddev	.00121	.00029	.352	.387	.00784
%RSD	.57922	.12908	3.4913	3.4190	4.3438
#1	.20963	.22248	9.8408	11.038	.17499
#2	.20792	.22207	10.339	11.585	.18608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-1-C MSD Acquired: 10/9/2023 2:25:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.492**	**.20230**	**.21304**	**33.310**	**.19943**
Stddev	.221	.00002	.00181	1.150	.00126
%RSD	.33670	.01035	.84814	3.4518	.63352
#1	65.648	.20232	.21176	32.497	.19854
#2	65.336	.20229	.21431	34.123	.20033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4380**	**.21065**	**19.864**	**.22833**	**.20497**
Stddev	.0002	.00400	.129	.00315	.00039
%RSD	.0569	1.8974	.65088	1.3776	.18825
#1	.4381	.20782	19.773	.22611	.20524
#2	.4378	.21347	19.956	.23055	.20469
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.350**	**.20354**	**.32008**	**-.0173**	**.21036**
Stddev	.630	.00161	.01199	.0133	.00035
%RSD	3.4343	.79105	3.7458	77.19	.16581
#1	17.904	.20240	.31161	-.0267	.21011
#2	18.796	.20468	.32856	-.0079	.21060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-1-C MSD Acquired: 10/9/2023 2:25:17 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20962**	**.20759**	**.20365**	**.0092**
Stddev	.00122	.00015	.00008	.0007
%RSD	.58405	.07417	.04161	7.265
#1	.21049	.20748	.20371	.0097
#2	.20875	.20770	.20359	.0088
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12410.**	**12776.**	**75150.**	**5541.9**
Stddev	62.	67.	107.	104.5
%RSD	.50000	.52139	.14207	1.8861
#1	12453.	12823.	75225.	5615.8
#2	12366.	12729.	75074.	5468.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.058%	101.07%	99.530%	92.322%
Range				

Sample Name: 480-212996-B-2-A Acquired: 10/9/2023 2:28:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.02561**	**-.00036**	**.02052**	**.09801**
Stddev	.00041	.02398	.00018	.00033	.00293
%RSD	32.484	93.618	49.149	1.6205	2.9872
#1	.00155	.04257	-.00049	.02028	.10008
#2	.00097	.00866	-.00024	.02075	.09594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**121.34**	**.00033**	**-.0146**	**.00041**
Stddev	.00012	.56	.00004	.0171	.00000
%RSD	77.436	.45889	10.712	116.8	.23502
#1	.00023	120.94	.00035	-.0267	.00041
#2	.00007	121.73	.00030	-.0025	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**.01459**	**.01156**	**.83577**	**-.00846**
Stddev	.00040	.00118	.00401	.06275	.00267
%RSD	34.981	8.0964	34.672	7.5078	31.559
#1	.00143	.01542	.01439	.79140	-.00657
#2	.00087	.01375	.00872	.88014	-.01035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-2-A Acquired: 10/9/2023 2:28:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.180**	**.00156**	**.00012**	**102.09**	**.00155**
Stddev	1.916	.00003	.00026	.39	.00023
%RSD	2.9394	2.2279	214.53	.37833	14.750
#1	66.534	.00158	-.00006	102.36	.00138
#2	63.825	.00153	.00031	101.82	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4257**	**.00287**	**10.759**	**-.00189**	**-.00066**
Stddev	.0004	.00025	.005	.00018	.00293
%RSD	.0973	8.7767	.04463	9.2881	445.64
#1	.4254	.00269	10.762	-.00202	-.00272
#2	.4260	.00304	10.756	-.00177	.00141
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9968**	**.00075**	**.12437**	**-.0287**	**.00110**
Stddev	.0525	.00018	.00072	.0188	.00013
%RSD	.58341	24.305	.57528	65.60	11.792
#1	8.9597	.00088	.12386	-.0420	.00101
#2	9.0340	.00062	.12487	-.0154	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-2-A Acquired: 10/9/2023 2:28:49 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00024**	**.00314**	**.0124**
Stddev	.00182	.00044	.00003	.0002
%RSD	155.96	181.43	.84973	2.013
#1	-.00012	-.00007	.00312	.0125
#2	.00245	.00056	.00316	.0122
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12143.**	**12400.**	**71868.**	**5615.9**
Stddev	1.	17.	1668.	19.4
%RSD	.01031	.13991	2.3203	.34541
#1	12142.	12388.	70689.	5602.1
#2	12144.	12413.	73047.	5629.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.083%	98.097%	95.183%	93.553%
Range				

Sample Name: 480-212996-B-3-A Acquired: 10/9/2023 2:32:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.02933**	**.00071**	**.00848**	**.05577**
Stddev	.00049	.00152	.00067	.00008	.00161
%RSD	62.716	5.1937	94.567	.91692	2.8945
#1	.00114	.03041	.00023	.00853	.05463
#2	.00044	.02825	.00118	.00842	.05691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**93.169**	**.00035**	**.0207**	**.00119**
Stddev	.00008	.308	.00014	.0692	.00011
%RSD	22.643	.33104	39.631	334.0	9.0507
#1	.00028	93.387	.00044	.0696	.00112
#2	.00038	92.951	.00025	-.0282	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.02838**	**.00680**	**1.3474**	**-.00798**
Stddev	.00005	.00235	.00102	.1062	.00039
%RSD	4.4655	8.2948	14.953	7.8799	4.8593
#1	.00124	.02671	.00608	1.2723	-.00825
#2	.00116	.03004	.00752	1.4225	-.00771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-3-A Acquired: 10/9/2023 2:32:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.158**	**.00087**	**.00031**	**10.528**	**.00001**
Stddev	1.460	.00006	.00001	.050	.00026
%RSD	2.7986	7.1203	4.4725	.47351	2889.8
#1	51.126	.00083	.00030	10.564	-.00018
#2	53.190	.00091	.00032	10.493	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4450**	**.00058**	**9.5757**	**-.00141**	**.00465**
Stddev	.0020	.00042	.0244	.00093	.00124
%RSD	.4575	73.205	.25484	66.035	26.619
#1	.4435	.00028	9.5929	-.00075	.00378
#2	.4464	.00088	9.5584	-.00206	.00553
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9278**	**-.00001**	**.09234**	**-.0110**	**.00109**
Stddev	.0161	.00011	.00028	.0024	.00055
%RSD	.20348	1276.6	.30063	21.96	50.444
#1	7.9164	-.00009	.09254	-.0093	.00148
#2	7.9392	.00007	.09215	-.0128	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-3-A Acquired: 10/9/2023 2:32:29 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00113**	**.00097**	**.00699**	**.0115**
Stddev	.00119	.00027	.00064	.0009
%RSD	104.84	27.774	9.1945	7.456
#1	.00029	.00078	.00654	.0121
#2	.00198	.00116	.00744	.0109
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12769.**	**12705.**	**73627.**	**5654.8**
Stddev	7.	9.	1503.	49.8
%RSD	.05333	.06776	2.0414	.88073
#1	12774.	12711.	74690.	5690.1
#2	12764.	12699.	72565.	5619.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.727%	100.50%	97.513%	94.203%
Range				

Sample Name: 480-212996-B-4-A Acquired: 10/9/2023 2:36:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.04906**	**.00101**	**-.00167**	**-.00015**
Stddev	.00051	.02071	.00010	.00004	.00000
%RSD	1736.0	42.200	10.325	2.4861	2.9596
#1	-.00033	-.06370	.00094	-.00164	-.00014
#2	.00039	-.03442	.00109	-.00170	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.01097**	**-.00008**	**-.0194**	**-.00018**
Stddev	.00001	.00027	.00001	.0040	.00002
%RSD	.72878	2.4716	8.7133	20.75	9.0104
#1	.00071	-.01077	-.00008	-.0166	-.00019
#2	.00071	-.01116	-.00007	-.0223	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	F **-.02238**	**-.00314**	**.15550**	**-.00357**
Stddev	.00007	.00156	.00113	.00837	.00073
%RSD	7.8747	6.9647	35.840	5.3852	20.387
#1	-.00088	-.02348	-.00235	.16142	-.00409
#2	-.00098	-.02127	-.00394	.14957	-.00306
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		23.000			
Low Limit		-.01000			

Sample Name: 480-212996-B-4-A Acquired: 10/9/2023 2:36:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00030**	**-.00022**	**-.07277**	**.00097**
Stddev	.00032	.00003	.00003	.00128	.00009
%RSD	73.056	10.488	12.031	1.7559	9.0886
#1	-.00021	-.00028	-.00024	-.07367	.00091
#2	-.00067	-.00032	-.00020	-.07187	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4060**	**-.00055**	**-.04262**	**.00565**	**.00673**
Stddev	.0005	.00014	.00056	.00004	.00063
%RSD	.1218	24.965	1.3125	.73249	9.3010
#1	.4057	-.00065	-.04302	.00568	.00717
#2	.4064	-.00045	-.04223	.00562	.00629
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05885**	**-.00069**	**-.00008**	**-.0277**	**.00192**
Stddev	.00825	.00001	.00007	.0026	.00002
%RSD	14.022	1.5953	83.218	9.537	.95376
#1	-.05301	-.00070	-.00003	-.0296	.00194
#2	-.06468	-.00068	-.00013	-.0259	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-4-A Acquired: 10/9/2023 2:36:10 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00036**	**-.00091**	**.0145**
Stddev	.00016	.00005	.00005	.0018
%RSD	783.42	13.738	5.3541	12.34
#1	.00013	.00032	-.00088	.0158
#2	-.00009	.00039	-.00094	.0132
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**45851.**	**43175.**	**248140.**	**17354.**
Stddev	77.	70.	1669.	387.
%RSD	.16794	.16267	.67256	2.2317
#1	45797.	43125.	246960.	17628.
#2	45906.	43225.	249320.	17080.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	340.14%	341.55%	328.64%	289.10%
Range				

Sample Name: 480-212996-B-5-A Acquired: 10/9/2023 2:39:58 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.05091**	**.00152**	**.01335**	**.03322**
Stddev	.00060	.01309	.00104	.00013	.00007
%RSD	83.379	25.708	68.071	.95550	.21275
#1	.00030	.04166	.00079	.01344	.03327
#2	.00115	.06017	.00226	.01326	.03317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**88.034**	**.00055**	**-.0016**	**-.00008**
Stddev	.00012	.216	.00023	.0464	.00012
%RSD	82.309	.24561	41.476	2980.	144.04
#1	.00006	87.881	.00071	-.0343	-.00017
#2	.00022	88.187	.00039	.0312	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.01488**	**.03848**	**1.2871**	**-.00597**
Stddev	.00012	.00085	.00009	.0059	.00061
%RSD	11.417	5.7081	.23469	.46108	10.209
#1	.00094	.01548	.03854	1.2829	-.00640
#2	.00111	.01428	.03841	1.2913	-.00554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-5-A Acquired: 10/9/2023 2:39:58 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.482**	**.01177**	**.00051**	**4.5994**	**.00021**
Stddev	.173	.00008	.00012	.0011	.00061
%RSD	.34296	.64962	23.669	.02350	296.33
#1	50.605	.01171	.00060	4.6002	.00064
#2	50.360	.01182	.00042	4.5986	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4351**	**.00204**	**15.443**	**-.00191**	**.00302**
Stddev	.0026	.00111	.083	.00083	.00144
%RSD	.5867	54.350	.53655	43.134	47.650
#1	.4369	.00282	15.385	-.00250	.00200
#2	.4333	.00126	15.502	-.00133	.00403
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0992**	**.00016**	**.07701**	**-.0246**	**.00094**
Stddev	.0114	.00026	.00026	.0347	.00026
%RSD	.14111	161.56	.33657	141.0	27.998
#1	8.1073	.00035	.07683	-.0001	.00075
#2	8.0911	-.00002	.07720	-.0492	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-212996-B-5-A Acquired: 10/9/2023 2:39:58 Type: Unk
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00039**	**.17774**	**.0138**
Stddev	.00135	.00023	.00062	.0010
%RSD	8449.0	57.709	.34785	7.523
#1	-.00094	.00055	.17818	.0131
#2	.00097	.00023	.17730	.0145
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12682.**	**12526.**	**74323.**	**5642.6**
Stddev	65.	64.	498.	3.3
%RSD	.50939	.50789	.66944	.05906
#1	12728.	12571.	73971.	5640.2
#2	12637.	12481.	74675.	5644.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.081%	99.093%	98.435%	93.998%
Range				

Sample Name: CCVL-7610998 Acquired: 10/9/2023 2:43:35 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00025**	F **-.04210**	F **.00078**	F **-.00176**	F **-.00016**
Stddev	.00017	.00340	.00047	.00011	.00000
%RSD	66.167	8.0655	59.876	5.9670	2.0361
#1	.00037	-.03970	.00045	-.00169	-.00017
#2	.00013	-.04450	.00112	-.00184	-.00016
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.00600	.20000	.01500	.02000	.00200
Range	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00068**	F **-.01074**	F **-.00006**	**-.0232**	F **-.00015**
Stddev	.00003	.00022	.00001	.0047	.00001
%RSD	3.6615	2.0830	10.678	20.43	4.6391
#1	.00067	-.01089	-.00006	-.0266	-.00015
#2	.00070	-.01058	-.00006	-.0199	-.00014
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
Value	.00200	.50000	.00200		.00400
Range	-50.000%	-50.000%	-50.000%		-50.000%

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00087**	F **-.02419**	F **-.00467**	F **.13395**	F **-.00311**
Stddev	.00006	.00085	.00070	.00751	.00060
%RSD	7.1285	3.5023	15.015	5.6092	19.420
#1	-.00092	-.02359	-.00517	.12863	-.00268
#2	-.00083	-.02479	-.00418	.13926	-.00354
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.00400	.01000	.05000	.50000	.03000
Range	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Sample Name: CCVL-7610998 Acquired: 10/9/2023 2:43:35 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00110**	F **-.00030**	F **-.00013**	F **-.07716**	F **.00088**
Stddev	.00031	.00000	.00000	.00741	.00003
%RSD	28.139	1.6127	2.4524	9.6019	3.0123
#1	.00132	-.00030	-.00013	-.07192	.00086
#2	.00088	-.00030	-.00013	-.08240	.00090
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.20000	.00300	.01000	1.0000	.01000
Range	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.4065**	F **-.00065**	F **-.04296**	F **.00522**	F **.00857**
Stddev	.0008	.00007	.00056	.00023	.00088
%RSD	.1858	10.419	1.3065	4.5025	10.248
#1	.4071	-.00060	-.04335	.00505	.00919
#2	.4060	-.00069	-.04256	.00538	.00795
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.0060	.01000	.20000	.02000	.02500
Range	50.00%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.06708**	F **-.00082**	F **-.00008**	F **-.0312**	F **.00189**
Stddev	.00261	.00003	.00010	.0052	.00003
%RSD	3.8851	3.7705	118.21	16.68	1.8151
#1	-.06524	-.00080	-.00015	-.0349	.00187
#2	-.06893	-.00084	-.00001	-.0275	.00192
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	.01000	.00500	.0060	.00500
Range	-50.000%	-50.000%	-50.000%	-50.00%	-50.000%

Sample Name: CCVL-7610998 Acquired: 10/9/2023 2:43:35 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	F **-.00006**	F **.00044**	F **-.00093**	F **.0130**
Stddev	.00034	.00008	.00012	.0003
%RSD	580.96	18.164	13.268	2.326
#1	-.00030	.00050	-.00102	.0132
#2	.00018	.00039	-.00084	.0128
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.02000	.00500	.01000	.0060
Range	-50.000%	-50.000%	-50.000%	50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**46847.**	**44094.**	**247520.**	**17377.**
Stddev	1175.	1172.	94.	463.
%RSD	2.5082	2.6577	.03782	2.6664
#1	46016.	43265.	247590.	17050.
#2	47678.	44922.	247460.	17705.

Sample Name: ICSA-7420389 Acquired: 10/9/2023 2:47:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	F **-.05090**	**.00110**	**-.00167**	**-.00018**
Stddev	.00107	.00783	.00036	.00012	.00000
%RSD	331.57	15.374	32.407	7.1868	1.7118
#1	-.00043	-.04537	.00085	-.00158	-.00018
#2	.00108	-.05643	.00135	-.00175	-.00018
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		600.00			
Low Limit		400.00			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	F **-.00788**	**-.00005**	**-.0159**	**-.00013**
Stddev	.00003	.00068	.00002	.0007	.00002
%RSD	3.9204	8.5965	29.806	4.235	19.231
#1	.00071	-.00740	-.00007	-.0155	-.00011
#2	.00075	-.00836	-.00004	-.0164	-.00015
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		600.00			
Low Limit		400.00			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	F **-.02203**	F **-.00431**	**.16351**	**-.00341**
Stddev	.00010	.00684	.00049	.00667	.00126
%RSD	12.278	31.034	11.339	4.0784	37.006
#1	-.00074	-.02687	-.00397	.15880	-.00252
#2	-.00088	-.01720	-.00466	.16823	-.00430
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		.02000	240.00		
Low Limit		-.02000	160.00		

Sample Name: ICSA-7420389 Acquired: 10/9/2023 2:47:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00045**	**-.00031**	**-.00025**	**-.07162**	**.00078**
Stddev	.00045	.00000	.00001	.00855	.00004
%RSD	99.925	.07169	4.9566	11.936	5.4161
#1	-.00013	-.00031	-.00026	-.06558	.00075
#2	-.00077	-.00031	-.00024	-.07767	.00081
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	600.00				
Low Limit	400.00				

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4055**	**-.00076**	**-.04263**	**.00529**	**.00826**
Stddev	.0004	.00050	.00084	.00003	.00005
%RSD	.0960	66.160	1.9652	.62071	.55871
#1	.4058	-.00040	-.04322	.00531	.00823
#2	.4053	-.00111	-.04204	.00526	.00829
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06776**	**-.00082**	**-.00006**	**-.0391**	**.00186**
Stddev	.00007	.00014	.00005	.0023	.00001
%RSD	.10752	17.518	85.293	5.786	.36624
#1	-.06771	-.00072	-.00002	-.0375	.00186
#2	-.06781	-.00093	-.00009	-.0407	.00185
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7420389 Acquired: 10/9/2023 2:47:23 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00051**	**-.00087**	**.0137**
Stddev	.00022	.00014	.00003	.0009
%RSD	221.77	26.942	2.9578	6.931
#1	.00006	.00061	-.00085	.0130
#2	-.00025	.00041	-.00089	.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**46256.**	**43465.**	**259330.**	**17796.**
Stddev	829.	847.	11240.	225.
%RSD	1.7923	1.9476	4.3344	1.2624
#1	45670.	42866.	251380.	17955.
#2	46842.	44063.	267280.	17637.

Sample Name: CCV-7538313 Acquired: 10/9/2023 2:51:12 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0270**	**47.811**	**.99030**	**1.0047**	**.99910**
Stddev	.0056	.096	.00160	.0003	.00021
%RSD	.54017	.20124	.16189	.03276	.02062
#1	1.0231	47.743	.98917	1.0049	.99895
#2	1.0309	47.879	.99144	1.0044	.99924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95318**	**47.539**	**.98387**	**.9452**	**.97607**
Stddev	.00108	.002	.00063	.0404	.00033
%RSD	.11287	.00320	.06442	4.279	.03335
#1	.95394	47.540	.98432	.9166	.97630
#2	.95242	47.538	.98342	.9738	.97584
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0188**	**.98065**	**46.646**	**46.523**	F **.88156**
Stddev	.0031	.00199	.255	.151	.00227
%RSD	.30441	.20291	.54598	.32499	.25803
#1	1.0166	.98206	46.466	46.416	.88317
#2	1.0210	.97925	46.826	46.630	.87995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/9/2023 2:51:12 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.147**	**.97363**	**1.0084**	**47.796**	**.97581**
Stddev	.254	.00084	.0010	.047	.00221
%RSD	.50727	.08637	.09603	.09800	.22641
#1	49.968	.97304	1.0090	47.829	.97425
#2	50.327	.97423	1.0077	47.763	.97737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**.98209**	**25.522**	**.98684**	**.98122**
Stddev	.03	.00037	.021	.00127	.00231
%RSD	.1040	.03750	.08042	.12883	.23528
#1	25.01	.98235	25.537	.98774	.97958
#2	24.97	.98183	25.508	.98594	.98285
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4089**	**.97970**	**.99890**	**.9439**	**.99455**
Stddev	.0058	.00004	.00251	.0342	.00047
%RSD	.06125	.00450	.25106	3.621	.04690
#1	9.4130	.97967	.99712	.9681	.99422
#2	9.4049	.97973	1.0007	.9198	.99488
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 2:51:12 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99099**	**1.0053**	**1.0186**	**.9804**
Stddev	.00236	.0008	.0024	.0016
%RSD	.23865	.07848	.23026	.1651
#1	.98932	1.0048	1.0169	.9815
#2	.99266	1.0059	1.0202	.9792
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12109.**	**12614.**	**72805.**	**5555.0**
Stddev	13.	16.	473.	19.3
%RSD	.11029	.12515	.64975	.34712
#1	12100.	12602.	73139.	5568.6
#2	12119.	12625.	72470.	5541.3

Sample Name: CCB-7506043 Acquired: 10/9/2023 2:54:47 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00292**	**-.00025**	**.00043**	**-.00001**
Stddev	.00090	.00116	.00067	.00028	.00004
%RSD	98.955	39.670	268.68	65.187	320.00
#1	.00027	.00210	.00022	.00063	.00001
#2	.00154	.00374	-.00072	.00023	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00253**	**.00012**	**-.0248**	**-.00004**
Stddev	.00010	.00193	.00003	.0038	.00012
%RSD	103.38	76.253	21.690	15.36	286.43
#1	.00003	-.00390	.00010	-.0275	.00004
#2	.00017	-.00117	.00014	-.0221	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00266**	**.00165**	**.13635**	**-.00560**
Stddev	.00017	.00019	.00284	.01089	.00408
%RSD	39.685	6.9885	172.59	7.9887	72.778
#1	-.00030	-.00253	-.00036	.12864	-.00272
#2	-.00054	-.00279	.00366	.14405	-.00849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 2:54:47 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.00004**	**.00010**	**-.03911**	**.00002**
Stddev	.00448	.00007	.00027	.00403	.00019
%RSD	838.46	159.90	279.61	10.295	1116.7
#1	-.00370	-.00001	.00029	-.04196	-.00012
#2	.00263	.00009	-.00009	-.03626	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4185**	**-.00051**	**.00763**	**-.00125**	**.00169**
Stddev	.0002	.00079	.00113	.00426	.00390
%RSD	.0493	154.45	14.857	339.80	230.01
#1	.4184	.00005	.00843	-.00426	-.00106
#2	.4187	-.00107	.00683	.00176	.00445
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03677**	**-.00026**	**.00003**	**-.0173**	**.00003**
Stddev	.00187	.00032	.00007	.0393	.00007
%RSD	5.0794	125.36	259.88	227.2	237.70
#1	-.03809	-.00048	-.00002	-.0451	-.00002
#2	-.03545	-.00003	.00007	.0105	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 2:54:47 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.00000**	**-.00027**	**.0084**
Stddev	.00088	.00007	.00002	.0014
%RSD	76.945	2726.1	7.5255	16.37
#1	-.00052	-.00005	-.00029	.0094
#2	-.00177	.00005	-.00026	.0074
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13945.**	**13100.**	**77767.**	**5653.6**
Stddev	14.	20.	132.	33.1
%RSD	.10192	.14940	.16965	.58488
#1	13935.	13087.	77674.	5677.0
#2	13955.	13114.	77861.	5630.2

Sample Name: ICSAB-7538391 Acquired: 10/9/2023 2:58:31 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00030**	F **-.04315**	F **.00075**	F **-.00157**	F **-.00017**
Stddev	.00047	.00268	.00046	.00001	.00000
%RSD	153.44	6.2057	61.124	.35938	2.3946
#1	.00063	-.04504	.00107	-.00157	-.00016
#2	-.00003	-.04126	.00042	-.00157	-.00017
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	500.00	.50000	5.0000	.50000
Range	-20.000%	-20.000%	-20.000%	-20.000%	-20.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00070**	F **-.01074**	F **-.00001**	**-.0289**	F **-.00016**
Stddev	.00002	.00026	.00000	.0271	.00002
%RSD	2.4763	2.4230	35.367	93.82	11.152
#1	.00071	-.01056	-.00001	-.0481	-.00017
#2	.00069	-.01093	-.00001	-.0097	-.00015
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
Value	.25000	500.00	.50000		.50000
Range	-20.000%	-20.000%	-20.000%		-20.000%

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00078**	F **-.02080**	F **-.00403**	F **.17209**	**-.00285**
Stddev	.00002	.00349	.00028	.01674	.00013
%RSD	2.8224	16.788	6.9918	9.7266	4.6207
#1	-.00079	-.01833	-.00423	.16026	-.00295
#2	-.00076	-.02327	-.00383	.18393	-.00276
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None
Value	.50000	.50000	200.00	5.0000	
Range	-20.000%	-20.000%	-20.000%	-20.000%	

Sample Name: ICSAB-7538391 Acquired: 10/9/2023 2:58:31 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00068**	F **-.00029**	F **-.00013**	F **-.07926**	F **.00085**
Stddev	.00051	.00000	.00003	.00351	.00003
%RSD	75.598	.03240	24.238	4.4348	3.7812
#1	-.00031	-.00029	-.00015	-.07677	.00087
#2	-.00104	-.00029	-.00011	-.08174	.00082
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	500.00	.50000	.50000	5.0000	.50000
Range	-20.000%	-20.000%	-20.000%	-20.000%	-20.000%

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4057**	F **-.00057**	**-.04353**	F **.00545**	F **.00851**
Stddev	.0000	.00048	.00010	.00048	.00094
%RSD	.0090	84.128	.23485	8.8590	11.096
#1	.4057	-.00023	-.04360	.00511	.00784
#2	.4057	-.00092	-.04346	.00579	.00918
Check ?	None	Chk Fail	None	Chk Fail	Chk Fail
Value		.50000		.50000	.50000
Range		-20.000%		-20.000%	-20.000%

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.06350**	F **-.00076**	F **-.00006**	**-.0327**	F **.00189**
Stddev	.00391	.00003	.00004	.0002	.00027
%RSD	6.1564	4.0113	62.452	.4658	14.231
#1	-.06626	-.00074	-.00009	-.0326	.00208
#2	-.06073	-.00079	-.00003	-.0328	.00170
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
Value	5.0000	.50000	.50000		.50000
Range	-20.000%	-20.000%	-20.000%		-20.000%

Sample Name: ICSAB-7538391 Acquired: 10/9/2023 2:58:31 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	F **.00015**	F **.00040**	F **-.00083**	**.0135**
Stddev	.00010	.00014	.00001	.0000
%RSD	63.163	34.082	.93696	.3421
#1	.00008	.00050	-.00082	.0135
#2	.00022	.00031	-.00083	.0135
Check ?	Chk Fail	Chk Fail	Chk Fail	None
Value	.50000	.50000	.50000	
Range	-20.000%	-20.000%	-20.000%	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**46570.**	**43827.**	**250250.**	**17446.**
Stddev	161.	158.	10538.	432.
%RSD	.34503	.36002	4.2111	2.4748
#1	46684.	43939.	257700.	17751.
#2	46457.	43716.	242800.	17140.

Sample Name: CCV-7538313 Acquired: 10/9/2023 3:02:19 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0269**	**47.685**	**.99583**	**1.0094**	**.99826**
Stddev	.0015	.006	.00644	.0047	.00103
%RSD	.14886	.01333	.64675	.46806	.10365
#1	1.0280	47.690	.99128	1.0060	.99753
#2	1.0258	47.681	1.0004	1.0127	.99899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94997**	**47.455**	**.98972**	**.9751**	**.98333**
Stddev	.00401	.054	.00611	.0083	.00699
%RSD	.42264	.11316	.61752	.8480	.71085
#1	.95281	47.492	.98539	.9693	.97839
#2	.94713	47.417	.99404	.9810	.98827
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0187**	**.98057**	**46.715**	**46.534**	F **.87693**
Stddev	.0013	.00045	.194	.037	.00005
%RSD	.12482	.04571	.41575	.07930	.00531
#1	1.0178	.98025	46.578	46.560	.87696
#2	1.0196	.98089	46.853	46.508	.87689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					1.0000
Range					-10.000%

Sample Name: CCV-7538313 Acquired: 10/9/2023 3:02:19 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.123**	**.97514**	**1.0131**	**47.752**	**.98202**
Stddev	.116	.00088	.0070	.089	.00742
%RSD	.23102	.09037	.69133	.18556	.75532
#1	50.205	.97452	1.0082	47.814	.97677
#2	50.041	.97577	1.0181	47.689	.98726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**.98869**	**25.682**	**.99109**	**.99223**
Stddev	.17	.00560	.162	.00622	.00403
%RSD	.6857	.56626	.63014	.62804	.40565
#1	25.01	.98473	25.568	.98669	.98939
#2	25.26	.99265	25.797	.99549	.99508
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3906**	**.98655**	**.99649**	**.9530**	**.99512**
Stddev	.0427	.00537	.00142	.0054	.00175
%RSD	.45418	.54401	.14253	.5677	.17554
#1	9.4208	.98275	.99548	.9568	.99389
#2	9.3605	.99034	.99749	.9491	.99636
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7538313 Acquired: 10/9/2023 3:02:19 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99637**	**1.0065**	**1.0176**	**.9867**
Stddev	.00726	.0000	.0014	.0082
%RSD	.72874	.00255	.13733	.8310
#1	.99124	1.0065	1.0186	.9809
#2	1.0015	1.0065	1.0166	.9925
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12055.**	**12571.**	**73229.**	**5590.8**
Stddev	60.	62.	23.	1.0
%RSD	.50009	.48955	.03159	.01740
#1	12097.	12615.	73212.	5591.5
#2	12012.	12528.	73245.	5590.1

Sample Name: CCB-7506043 Acquired: 10/9/2023 3:05:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.01854**	**-.00152**	**.00022**	**-.00003**
Stddev	.00122	.01963	.00093	.00013	.00000
%RSD	302.80	105.88	61.117	56.579	13.706
#1	.00046	-.03242	-.00087	.00031	-.00002
#2	-.00127	-.00466	-.00218	.00013	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00307**	**.00006**	**-.0331**	**.00003**
Stddev	.00009	.00042	.00007	.0895	.00024
%RSD	440.13	13.826	129.64	270.7	714.48
#1	-.00004	-.00337	.00000	.0302	-.00014
#2	.00008	-.00277	.00011	-.0964	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00423**	**.00239**	**.09111**	**-.00389**
Stddev	.00022	.00031	.00262	.01929	.00256
%RSD	172.70	7.3676	109.41	21.178	65.682
#1	.00029	-.00401	.00425	.10475	-.00208
#2	-.00003	-.00445	.00054	.07746	-.00570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 3:05:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**-.00003**	**.00023**	**-.04846**	**.00012**
Stddev	.00130	.00002	.00014	.00082	.00015
%RSD	66.608	78.518	60.475	1.6868	122.69
#1	.00287	-.00004	.00013	-.04904	.00002
#2	.00103	-.00001	.00033	-.04789	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.4187**	**-.00192**	**.00447**	**.00054**	**.00222**
Stddev	.0031	.00037	.00165	.00133	.00242
%RSD	.7326	19.329	36.829	246.48	109.09
#1	.4166	-.00219	.00331	-.00040	.00051
#2	.4209	-.00166	.00564	.00148	.00393
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02452**	**.00006**	**.00011**	**-.0216**	**.00027**
Stddev	.00137	.00026	.00010	.0122	.00024
%RSD	5.5806	433.23	95.106	56.52	88.691
#1	-.02549	.00025	.00004	-.0130	.00044
#2	-.02355	-.00013	.00018	-.0302	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7506043 Acquired: 10/9/2023 3:05:53 Type: QC
Method: test(v73) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.00036**	**-.00004**	**.0121**
Stddev	.00255	.00022	.00008	.0017
%RSD	402.89	62.003	228.95	13.90
#1	.00117	-.00052	.00002	.0133
#2	-.00244	-.00020	-.00010	.0109
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13819.**	**12986.**	**76907.**	**5625.1**
Stddev	3.	2.	48.	31.8
%RSD	.01960	.01232	.06283	.56550
#1	13818.	12985.	76941.	5602.7
#2	13821.	12987.	76873.	5647.6

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685101 Batch Start Date: 09/27/23 08:17 Batch Analyst: Patel, Manisha

Batch Method: 3005A Batch End Date: 09/27/23 11:54

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00184	MED_01_W1 00078	MED_02_W2 00075	MED_03_Ag 00198
MB 480-685101/1		3005A, 6010C		50 mL	50 mL				
LCS 480-685101/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-213061-A-1	GW-13D-09252023	3005A, 6010C	T	50 mL	50 mL				
480-213061-A-2	SW-B-09252023	3005A, 6010C	T	50 mL	50 mL				
480-213061-A-2 MS	SW-B-09252023-MS	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-213061-A-2 MSD	SW-B-09252023-MSD	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-213061-A-3	FD-1-09252023	3005A, 6010C	T	50 mL	50 mL				
480-213061-A-4	EB-1-09252023	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00185	MED_05_S 00143				
MB 480-685101/1		3005A, 6010C							
LCS 480-685101/2		3005A, 6010C		0.25 mL	0.25 mL				
480-213061-A-1	GW-13D-09252023	3005A, 6010C	T						
480-213061-A-2	SW-B-09252023	3005A, 6010C	T						
480-213061-A-2 MS	SW-B-09252023-MS	3005A, 6010C	T	0.25 mL	0.25 mL				
480-213061-A-2 MSD	SW-B-09252023-MSD	3005A, 6010C	T	0.25 mL	0.25 mL				
480-213061-A-3	FD-1-09252023	3005A, 6010C	T						
480-213061-A-4	EB-1-09252023	3005A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685101 Batch Start Date: 09/27/23 08:17 Batch Analyst: Patel, Manisha

Batch Method: 3005A Batch End Date: 09/27/23 11:54

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2211204
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	MP
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	7602189
Nitric Acid ID	7622056
Digestion Unit ID	B
Thermometer ID	230350865
Thermometer Location ID	B1
Temperature - Uncorrected - Start	94.5 Degrees C
Temperature - Corrected - Start	94.5 Degrees C
Digestion Start Time	09/27/2023 08:17
Digestion End Time	09/27/2023 11:54
Temperature - Uncorrected - End	95.1 Degrees C
Temperature - Corrected - End	95.1 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685462 Batch Start Date: 09/29/23 08:13 Batch Analyst: Patel, Manisha

Batch Method: 3005A Batch End Date: 09/29/23 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00184	MED_01_W1 00078	MED_02_W2 00075	MED_03_Ag 00198
MB 480-685462/1		3005A, 6010C		50 mL	50 mL				
LCS 480-685462/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-213117-G-7	GW-M-27D-09262023	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00185	MED_05_S 00143				
MB 480-685462/1		3005A, 6010C							
LCS 480-685462/2		3005A, 6010C		0.25 mL	0.25 mL				
480-213117-G-7	GW-M-27D-09262023	3005A, 6010C	T						

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2211204
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	MP
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	7577420
Nitric Acid ID	7622056
Digestion Unit ID	A
Thermometer ID	230350865
Thermometer Location ID	B3
Temperature - Uncorrected - Start	94.8 Degrees C
Temperature - Corrected - Start	94.8 Degrees C
Digestion Start Time	09/29/2023 08:13
Digestion End Time	09/29/2023 12:00
Temperature - Uncorrected - End	95.2 Degrees C
Temperature - Corrected - End	95.2 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685462 Batch Start Date: 09/29/23 08:13 Batch Analyst: Patel, Manisha

Batch Method: 3005A Batch End Date: 09/29/23 12:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG No.: 480-213061-1

Project: Malta Rocket Fuel (MRFA)

Client Sample ID	Lab Sample ID
GW-13D-09252023	480-213061-1
SW-B-09252023	480-213061-2
FD-1-09252023	480-213061-3
EB-1-09252023	480-213061-4
GW-M-27D-09262023	480-213117-7

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW-13D-09252023 Lab Sample ID: 480-213061-1

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/25/2023 16:25

Reporting Basis: WET Date Received: 09/26/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium, hexavalent	0.010	0.010	0.0050	mg/L	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SW-B-09252023 Lab Sample ID: 480-213061-2

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/25/2023 13:00

Reporting Basis: WET Date Received: 09/26/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium, hexavalent	0.010	0.010	0.0050	mg/L	U		1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FD-1-09252023 Lab Sample ID: 480-213061-3

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/25/2023 00:00

Reporting Basis: WET Date Received: 09/26/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium, hexavalent	0.010	0.010	0.0050	mg/L	U	H H3	1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: EB-1-09252023 Lab Sample ID: 480-213061-4

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/25/2023 00:00

Reporting Basis: WET Date Received: 09/26/2023 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium, hexavalent	0.010	0.010	0.0050	mg/L	U	H H3	1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: GW-M-27D-09262023 Lab Sample ID: 480-213117-7

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG ID.: 480-213061-1

Matrix: Water Date Sampled: 09/26/2023 16:30

Reporting Basis: WET Date Received: 09/27/2023 10:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium, hexavalent	0.0092	0.010	0.0050	mg/L	J		1	7196A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Analyst: GW Batch Start Date: 09/26/2023

Reporting Units: mg/L Analytical Batch No.: 685055

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	12:24	Chromium, hexavalent	0.0522	0.0500	104	85-115		HEX INT STD_00126
2	CCB	12:24	Chromium, hexavalent	0.010				U	
13	CCV	12:24	Chromium, hexavalent	0.0509	0.0500	102	85-115		HEX INT STD_00126
14	CCB	12:24	Chromium, hexavalent	0.010				U	
18	CCV	12:24	Chromium, hexavalent	0.0522	0.0500	104	85-115		HEX INT STD_00126
19	CCB	12:24	Chromium, hexavalent	0.010				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Analyst: GW Batch Start Date: 09/27/2023

Reporting Units: mg/L Analytical Batch No.: 685263

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:16	Chromium, hexavalent	0.0522	0.0500	104	85-115		HEX INT STD_00126
2	CCB	14:16	Chromium, hexavalent	0.010				U	
8	CCV	14:16	Chromium, hexavalent	0.0535	0.0500	107	85-115		HEX INT STD_00126
9	CCB	14:16	Chromium, hexavalent	0.010				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 685055 Date: 09/26/2023 12:24							
7196A	MB 480-685055/3	Chromium, hexavalent	0.010	U	mg/L	0.010	1
Batch ID: 685263 Date: 09/27/2023 14:16							
7196A	MB 480-685263/3	Chromium, hexavalent	0.010	U	mg/L	0.010	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 685055 Date: 09/26/2023 12:24											
7196A	480-213061-2	Chromium, hexavalent	0.010	U	mg/L						
7196A	480-213061-2 MS	Chromium, hexavalent	0.0522		mg/L	0.0500	104	85-115			
Batch ID: 685263 Date: 09/27/2023 14:16											
7196A	480-213117-7	Chromium, hexavalent	0.0092	J	mg/L						
7196A	480-213117-7 MS	Chromium, hexavalent	0.0573		mg/L	0.0500	96	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 685055 Date: 09/26/2023 12:24											
7196A	480-213061-2 MSD	Chromium, hexavalent	0.0484		mg/L	0.0500	97	85-115	8	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 685263 Date: 09/27/2023 14:16								
7196A	GW-M-27D-09262023	480-213117-7	Chromium, hexavalent	0.0092	mg/L			J
7196A	GW-M-27D-09262023	480-213117-7 DU	Chromium, hexavalent	0.00796	mg/L	15	20	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 685055	Date: 09/26/2023 12:24										
						LCS Source: HEX INT STD_00126					
7196A	LCS 480-685055/4	Chromium, hexavalent	0.0535		mg/L	0.0500	107	85-115			
Batch ID: 685263	Date: 09/27/2023 14:16										
						LCS Source: HEX INT STD_00126					
7196A	LCS 480-685263/4	Chromium, hexavalent	0.0509		mg/L	0.0500	102	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG Number: 480-213061-1

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A MDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-213061-1

SDG Number: 480-213061-1

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A XMDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chromium, hexavalent		0.01	0.005

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: Genesys Spec 30 Date: 03/12/2020 10:22

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chromium, hexavalent		0.4	7196A

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: Genesys Spec 30 Method: 7196A

Start Date: 09/26/2023 12:24 End Date: 09/26/2023 12:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
CCV 480-685055/1	1		12:24	X																			
CCB 480-685055/2	1		12:24	X																			
MB 480-685055/3	1	T	12:24	X																			
LCS 480-685055/4	1	T	12:24	X																			
480-213061-1	1	T	12:24	X																			
480-213061-2	1	T	12:24	X																			
480-213061-2 MS	1	T	12:24	X																			
480-213061-2 MSD	1	T	12:24	X																			
480-213061-3	1	T	12:24	X																			
480-213061-4	1	T	12:24	X																			
ZZZZZZ			12:24																				
ZZZZZZ			12:24																				
CCV 480-685055/13	1		12:24	X																			
CCB 480-685055/14	1		12:24	X																			
ZZZZZZ			12:24																				
ZZZZZZ			12:24																				
ZZZZZZ			12:24																				
CCV 480-685055/18	1		12:24	X																			
CCB 480-685055/19	1		12:24	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Instrument ID: Genesys Spec 30 Method: 7196A

Start Date: 09/27/2023 14:16 End Date: 09/27/2023 14:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
CCV 480-685263/1	1		14:16	X																			
CCB 480-685263/2	1		14:16	X																			
MB 480-685263/3	1	T	14:16	X																			
LCS 480-685263/4	1	T	14:16	X																			
480-213117-7	1	T	14:16	X																			
480-213117-7 DU	1	T	14:16	X																			
480-213117-7 MS	1	T	14:16	X																			
CCV 480-685263/8	1		14:16	X																			
CCB 480-685263/9	1		14:16	X																			

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 480-213061-1
SDG: 480-213061-1

Batch: 685055 **Analyst Initials: GW**
Method: 7196A **Instrument: Manual Spec**

Lab Sample ID: CCV 480-685055/1 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0410	0.052198200	mg/L	25 mL

Lab Sample ID: CCB 480-685055/2 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Lab Sample ID: MB 480-685055/3 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Lab Sample ID: LCS 480-685055/4 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.053462200	mg/L	25 mL

Lab Sample ID: 480-213061-B-1 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Lab Sample ID: 480-213061-B-2 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Lab Sample ID: 480-213061-B-2 MS — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0410	0.052198200	mg/L	25 mL

Lab Sample ID: 480-213061-B-2 MSD — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0380	0.048406200	mg/L	25 mL

Lab Sample ID: 480-213061-B-3 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Lab Sample ID: 480-213061-B-4 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0020	0.0029022000	mg/L	25 mL

Lab Sample ID: CCV 480-685055/13 — Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0400	0.050934200	mg/L	25 mL

Batch: 685055 (Continued)
Method: 7196A

Analyst Initials: GW
Instrument: Manual Spec

Lab Sample ID: CCB 480-685055/14

Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Lab Sample ID: CCV 480-685055/18

Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0410	0.052198200	mg/L	25 mL

Lab Sample ID: CCB 480-685055/19

Analysis Date: Sep 26, 2023 12:24

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Batch: 685263
Method: 7196A

Analyst Initials: GW
Instrument: Manual Spec

Lab Sample ID: CCV 480-685263/1

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0410	0.052198200	mg/L	25 mL

Lab Sample ID: CCB 480-685263/2

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Lab Sample ID: MB 480-685263/3

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Lab Sample ID: LCS 480-685263/4

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0400	0.050934200	mg/L	25 mL

Lab Sample ID: 480-213117-H-7

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0070	0.0092222000	mg/L	25 mL

Lab Sample ID: 480-213117-H-7 DU

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0060	0.0079582000	mg/L	25 mL

Lab Sample ID: 480-213117-H-7 MS

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0450	0.057254200	mg/L	25 mL

Batch: 685263 (Continued)
Method: 7196A

Analyst Initials: GW
Instrument: Manual Spec

Lab Sample ID: CCV 480-685263/8

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.053462200	mg/L	25 mL

Lab Sample ID: CCB 480-685263/9

Analysis Date: Sep 27, 2023 14:16

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	0.00037420000	mg/L	25 mL

Laboratory Bench Sheet
Hexavalent Chromium 7196/ 3500_CR

Eurofins TestAmerica - Buffalo

Analyst:	CT		
Start Date:	8-1-23		
Start Time:	9:30		
End Date:	8-1-23		
End Time	10:00		
DATE OF CURVE=	7/28/2023		
LOQ/RL:	0.010	mg/L	

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.010	0.005
Std. 3	0.020	0.010
Std. 4	0.050	0.034
Std. 5	0.100	0.073
Std. 6	0.200	0.144
Std. 7	0.300	0.224
Std. 8	0.400	0.295
Hex Std used for curve:		0

Filter Lot #	NA		
EPP #	L104LL		

LCS Information:

Lot#:		
Concentration (mg/L):		10
Expiration Date:		
LCS	True value:	0.05

Matrix Spike Information:

Lot#:		
Concentration (mg/L):		10
Expiration Date:		
MS	True Value	0.05

Chroma Ver3 Pillow Packets: A2083

BATCH # 478531

Instrument Information

Instrument:	Genesys 30
Wavelength:	540
Parameter:	Hexavalent Chromium
Corr. Coef:	**0.99983**
Slope:	**0.74602**
Intercept:	**-0.00259**

Time	Job #	Sample ID	Final Vol.	Sample	color blk corr	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5
			(mL)	ABS.	0	ABS.		(mg/L)	(mg/L)		Yes or
	IC	0	25	0		0.000	1	0	0.0000		
	IC	0.01	25	0.008		0.000	1	0	0.0000	754987	
	IC	0.02	25	0.014		0.000	1	0	0.0000	754987	
	IC	0.05	25	0.041		0.000	1	0	0.0000	754987	
	IC	0.10	25	0.078		0.000	1	0	0.0000	754987	
	IC	0.20	25	0.157		0.000	1	0	0.0000	754988	
	IC	0.30	25	0.241		0.000	1	0	0.0000	754988	
	IC	0.40	25	0.315		0.000	1	8-1-23 CT 0	0.0000	754988	
	ICV	0.2	25	0.152		0.000	1	~~0.2236~~ 0 0.194	0.0000	748061	
	ICB	0	25	0		0.000	1	0	0.0000		
			25			0.000	1	0	0.0000	96%	
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25			0.000	1	0	0.0000	0%	
	CCB	CCB	25			0.000	1	0	0.0000		

Laboratory Bench Sheet
Hexavalent Chromium 7196/ 3500_CR

Analyst:		Calibration Curve Information			LCS Information:				BATCH #		
Start Date:			Conc.(mg/L)	ABS.	Lot#:				Instrument Information		
Start Time:		STD1	0.000	0.000	Concentration (mg/L):		10		Instrument:	Genesys 30	
End Date:		Std. 2	0.010	0.008	Expiration Date:				Wavelength:	540	
End Time		Std. 3	0.020	0.014	LCS	True value:	0.05		Parameter:	Hexavalent Chromium	
DATE OF CURVE=	8/1/2023	Std. 4	0.050	0.041	Matrix Spike Information:				Corr. Coef:	0.99988	
	.	Std. 5	0.100	0.078	Lot#:				Slope:	0.79275	
LOQ/RL: 0.010	mg/L	Std. 6	0.200	0.157	Concentration (mg/L):		10		Intercept:	-0.00027	
		Std. 7	0.300	0.241	Expiration Date:						
Filter Lot #		Std. 8	0.400	0.315	MS	True Value	0.05				
EPP #		Hex Std used for curve:		0	Chroma Ver3 Pillow Packets:						

Time	Job #	Sample ID	Final Vol.	Sample	color blk corr	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.
			(mL)	ABS.	0	ABS.		(mg/L)	(mg/L)		Yes or No
	CCV	CCV	25			0.000	1	0	0.0000	0%	
	CCB	CCB	25			0.000	1	0	0.0000		
	MB	MB	25			0.000	1	0	0.0000		
	LCS	LCS	25			0.000	1	0	0.0000	0%	
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25			0.000	1	0	0.0000	0%	Yes
	CCB	CCB	25			0.000	1	0	0.0000		Yes
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25			0.000	1	0	0.0000	0%	
	CCB	CCB	25			0.000	1	0	0.0000		

Agilent

69541163

Certificate of Analysis

Product Name: Custom Standard

Product Number: ICP-024A

Lot Number: 0006572479

Lot Issue Date: 30-Nov-2020

Expiration Date: 31-Dec-2027

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system. The analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability and Method
chromium (VI)	ammonium dichromate	RM13408	99.999	1001 ± 2 µg/mL	NIST SRM 3112a; ICP-OES

Solvent: water (low TOC, < 50 ppb)

Non-Certified Values:

Density: 0.9995 g/mL @ 20.00 ± 0.05°C

Trace Metallic Impurities in Solution Standard in µg/mL:

*	Al	<0.005	ND	*	Ga	<0.005	ND	n	Nb			n	S		
*	Sb	<0.005	ND	n	Ge			n	Os			n	Ta		
*	As	<0.005	ND	n	Au			*	Pd	<0.005	ND	n	Te		
*	Ba	<0.005	ND	n	Hf			*	P	<0.005	ND	n	Tb		
*	Be	<0.005	ND	n	Ho			*	Pt	<0.005	ND	*	Tl	<0.005	ND
*	Bi	<0.005	ND	*	In	<0.005	ND	*	K	<0.005	D	n	Th		
*	B	<0.005	ND	n	Ir			n	Pr			n	Tm		
*	Cd	<0.005	ND	*	Fe	<0.005	ND	n	Re			*	Sn	<0.005	ND
n	Cs			*	La	<0.005	ND	n	Rh			*	Ti	<0.005	ND
*	Ca	<0.005	D	*	Pb	<0.005	ND	n	Rb			n	W		
n	Ce			*	Li	<0.005	ND	n	Ru			n	U		
s	Cr			n	Lu			n	Sm			*	V	<0.005	ND
*	Co	<0.005	ND	*	Mg	<0.005	ND	n	Sc			n	Yb		
*	Cu	<0.005	ND	*	Mn	<0.005	ND	*	Se	<0.005	ND	n	Y		
n	Dy			*	Hg	<0.005	ND	*	Si	<0.005	ND	*	Zn	<0.005	ND
*	Er	<0.005	ND	*	Mo	<0.005	ND	*	Ag	<0.005	ND	n	Zr		
*	Eu	<0.005	ND	n	Nd			*	Na	<0.017	D				
*	Gd	<0.005	ND	*	Ni	<0.005	ND	*	Sr	<0.005	ND				

* - element checked for
D - detected
n - not checked for
ND - not detected
s - standard element
i - spectral interference

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 2
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CSD-QA-039.0

ANAB ACCREDITED TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 **www.agilent.com/quality**

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Certificate of Analysis

Product Number:	ICP-024A	**Lot Issue Date:**	30-Nov-2020
Lot Number:	0006572479	**Expiration Date:**	31-Dec-2027

Storage: Store at Room Temperature (15° to 30°C).

Traceability:
Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Homogeneity:
This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:
Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Sample lot approver:

Monica Bourgeois
QMS Representative

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
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CSD-QA-039.0

ANAB ACCREDITED TESTING LABORATORY
ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 **www.agilent.com/quality**

Laboratory Bench Sheet
Hexavalent Chromium 7196/ 3500_CR

Eurofins TestAmerica - Buffalo

Analyst:	GW		**Calibration Curve Information**			**LCS Information:**				**BATCH #**	685055
Start Date:	9/26			Conc.(mg/L)	ABS.	Lot#:	7594596			**Instrument Information**	
Start Time:	12:24		STD1	0.000	0.000	Concentration (mg/L):			10	Instrument:	Genesys 30
End Date:	9/26		Std. 2	0.010	0.008	Expiration Date:				Wavelength:	540
End Time	13:07		Std. 3	0.020	0.014	LCS	True value:		0.05	Parameter:	Hexavalent Chromium
DATE OF CURVE=		8/1/2023	Std. 4	0.050	0.041	**Matrix Spike Information:**				**Corr. Coef:**	0.99988
		.	Std. 5	0.100	0.078	Lot#:	7594596			**Slope:**	0.79275
LOQ/RL:	0.010	mg/L	Std. 6	0.200	0.157	Concentration (mg/L):			10	**Intercept:**	-0.00027
			Std. 7	0.300	0.241	Expiration Date:					
Filter Lot #	A3071458		Std. 8	0.400	0.315	MS	True Value		0.05		
EPP #	L/04661		Hex Std used for curve:		0	Chroma Ver3 Pillow Packets:			A3152		

Time	Job #	Sample ID	Final Vol.	Sample	color blk corr	Corrected	D.F		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	0	ABS.		(mg/L)	(mg/L)		Yes or No
	CCV	CCV	25	0.041		0.000	1	0	0.0000	0%	
	CCB	CCB	25	0		0.000	1	0	0.0000		
	MB	MB	25	0		0.000	1	0	0.0000		
	LCS	LCS	25	0.042		0.000	1	0	0.0000	0%	
	213061	B-1	25	0	0	0.000	1	0	0.0000		yes
		B-2	25	0	0	0.000	1	0	0.0000		
		B-2 MS	25	0.041		0.000	1	0	0.0000		
		B-2 MSD	25	0.038		0.000	1	0	0.0000		
		B-3	25	0	0	0.000	1	0	0.0000		
		B-4	25	0.002	0	0.000	1	0	0.0000		
	213062	L-1	25	0	0	0.000	1	0	0.0000		yes
		L-2	25	0	0	0.000	1	0	0.0000		
	CCV	CCV	25	0.040		0.000	1	0	0.0000	0%	Yes
	CCB	CCB	25	0		0.000	1	0	0.0000		Yes
	213062	L-3	25	0	0	0.000	1	0	0.0000		yes
		L-3 DU	25	0		0.000	1	0	0.0000		
		L-3 MS	25	0.039		0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25	0.041		0.000	1	0	0.0000	0%	
	CCB	CCB	25	0		0.000	1	0	0.0000		

10/13/2023
10:08 AM

Historical Data Summary Report

For Batch 685055

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-213062-L-1	MW-32C	7196A	Hexavalent chromium	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-213062-L-2	MW-36C	7196A	Hexavalent chromium	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-213062-L-3	MW-37D	7196A	Hexavalent chromium	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.022	☐	0 - 0.019

BF-WC-HexBS-026
rev2 9/9/21

Laboratory Bench Sheet
Hexavalent Chromium 7196/ 3500_CR

Eurofins TestAmerica - Buffalo

Analyst:	GW	Calibration Curve Information			LCS Information:			BATCH #	6852263
Start Date:	9/27/23		Conc.(mg/L)	ABS	Lot#:	7594596		Instrument Information	
Start Time:	14:16	STD1	0.000	0.000	Concentration (mg/L):		10	Instrument:	Genesys 30
End Date:	9/27/23	Std. 2	0.010	0.008	Expiration Date:			Wavelength:	540
End Time	14:30	Std. 3	0.020	0.014	LCS	True value:	0.05	Parameter:	Hexavalent Chromium
DATE OF CURVE=	8/1/2023	Std. 4	0.050	0.041	Matrix Spike Information:			Corr. Coef:	0.99988
	.	Std. 5	0.100	0.078	Lot#:	7594596		Slope:	0.79275
LOQ/RL:	0.010 mg/L	Std. 6	0.200	0.157	Concentration (mg/L):		10	Intercept:	-0.00027
		Std. 7	0.300	0.241	Expiration Date:				
Filter Lot #	A3071438	Std. 8	0.400	0.315	MS	True Value	0.05		
EPP #	L1646GL	Hex Std used for curve:		0	Chroma Ver3 Pillow Packets:		A3152		

Time	Job #	Sample ID	Final Vol.	Sample	color blk corr	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	0	ABS.		(mg/L)	(mg/L)		Yes or No
	CCV	CCV	25	0.041		0.000	1	0	0.0000	0%	
	CCB	CCB	25	0		0.000	1	0	0.0000		
	MB	MB	25	0		0.000	1	0	0.0000		
	LCS	LCS	25	0.040		0.000	1	0	0.0000	0%	
	21317	H-7	25	0.007	0	0.000	1	0	0.0000		
	↓	H-7 DU	25	0.006	↓	0.000	1	0	0.0000		
		H-7 MS	25	0.045		0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25	0.042		0.000	1	0	0.0000	0%	Yes
	CCB	CCB	25	0		0.000	1	0	0.0000		Yes
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25			0.000	1	0	0.0000	0%	
	CCB	CCB	25			0.000	1	0	0.0000		

GW 9/27/23

10/13/2023
10:08 AM

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 678534 Batch Start Date: 08/01/23 09:30 Batch Analyst: Thomas, Christine L

Batch Method: 7196A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	10ppm hex 00006	20ppm hex 00005
IC 480-678534/1		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance		
IC 480-678534/2		7196A		25 mL	25 mL	0 Absorbance	0.008 Absorbance		
IC 480-678534/3		7196A		25 mL	25 mL	0 Absorbance	0.014 Absorbance		
IC 480-678534/4		7196A		25 mL	25 mL	0 Absorbance	0.041 Absorbance	0.125 mL	
IC 480-678534/5		7196A		25 mL	25 mL	0 Absorbance	0.078 Absorbance		0.125 mL
IC 480-678534/6		7196A		25 mL	25 mL	0 Absorbance	0.157 Absorbance		
IC 480-678534/7		7196A		25 mL	25 mL	0 Absorbance	0.241 Absorbance		
IC 480-678534/8		7196A		25 mL	25 mL	0 Absorbance	0.315 Absorbance		

Lab Sample ID	Client Sample ID	Method Chain	Basis	2ppm hex 00005	40ppm hex 00005	4ppm hex 00006	60ppm hex 00004	80ppm hex 00005	
IC 480-678534/1		7196A							
IC 480-678534/2		7196A		0.125 mL					
IC 480-678534/3		7196A				0.125 mL			
IC 480-678534/4		7196A							
IC 480-678534/5		7196A							
IC 480-678534/6		7196A			0.125 mL				
IC 480-678534/7		7196A					0.125 mL		
IC 480-678534/8		7196A						0.125 mL	

Batch Notes	
Color Reagent ID	a3083

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685055 Batch Start Date: 09/26/23 12:24 Batch Analyst: Willert, Grace

Batch Method: 7196A Batch End Date: 09/26/23 13:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ColorBlk	UnCorResp	HEX INT STD 00126		
CCV 480-685055/1		7196A		25 mL	0 Absorbance	0.041 Absorbance	125 uL		
CCB 480-685055/2		7196A		25 mL	0 Absorbance	0 Absorbance			
MB 480-685055/3		7196A		25 mL	0 Absorbance	0 Absorbance			
LCS 480-685055/4		7196A		25 mL	0 Absorbance	0.042 Absorbance	125 uL		
480-213061-B-1	GW-13D-09252023	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-213061-B-2	SW-B-09252023	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-213061-B-2 MS	SW-B-09252023-MS	7196A	T	25 mL	0 Absorbance	0.041 Absorbance	125 uL		
480-213061-B-2 MSD	SW-B-09252023-MSD	7196A	T	25 mL	0 Absorbance	0.038 Absorbance	125 uL		
480-213061-B-3	FD-1-09252023	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-213061-B-4	EB-1-09252023	7196A	T	25 mL	0 Absorbance	0.002 Absorbance			
CCV 480-685055/13		7196A		25 mL	0 Absorbance	0.040 Absorbance	125 uL		
CCB 480-685055/14		7196A		25 mL	0 Absorbance	0 Absorbance			
CCV 480-685055/18		7196A		25 mL	0 Absorbance	0.041 Absorbance	125 uL		
CCB 480-685055/19		7196A		25 mL	0 Absorbance	0 Absorbance			

Batch Notes	
Color Reagent ID	A3152

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-213061-1

SDG No.: 480-213061-1

Batch Number: 685263 Batch Start Date: 09/27/23 14:16 Batch Analyst: Willert, Grace

Batch Method: 7196A Batch End Date: 09/27/23 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ColorBlk	UnCorResp	HEX INT STD 00126		
CCV 480-685263/1		7196A		25 mL	0 Absorbance	0.041 Absorbance	125 uL		
CCB 480-685263/2		7196A		25 mL	0 Absorbance	0 Absorbance			
MB 480-685263/3		7196A		25 mL	0 Absorbance	0 Absorbance			
LCS 480-685263/4		7196A		25 mL	0 Absorbance	0.040 Absorbance	125 uL		
480-213117-H-7	GW-M-27D-09262023	7196A	T	25 mL	0 Absorbance	0.007 Absorbance			
480-213117-H-7 DU	GW-M-27D-09262023	7196A	T	25 mL	0 Absorbance	0.006 Absorbance			
480-213117-H-7 MS	GW-M-27D-09262023	7196A	T	25 mL	0 Absorbance	0.045 Absorbance	125 uL		
CCV 480-685263/8		7196A		25 mL	0 Absorbance	0.042 Absorbance	125 uL		
CCB 480-685263/9		7196A		25 mL	0 Absorbance	0 Absorbance			

Batch Notes	
Color Reagent ID	A3152

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: TRA/BJJ	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-188443-37558.5
Client Contact: Mr. Paul D'Annibale	Phone: 518-470-3060	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 94 New Karner Road Suite 106	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: NY, 12203	Compliance Project: Δ Yes Δ No			
Phone: 518-724-7256(Tel)	PO #: 1940004949			
Email: Paul.DAnnibale@ramboll.com	WO #:			
Project Name: GE - MRFA	Project #: 48025192			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175 - Ethane	8260C - TCL VOCs	6010C - Metals - Chromium, Total	7196A - Chromium, Hexavalent	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	D	N		
GW-M-27D-09252023	9/25/23	1200	G	Water	N	N	X	X	X	X		
SW-B-09252023	9/25/23	1300	G	Water	N	N	X	X	X	X		
SW-B-09252023-MS	9/25/23	1300	G	Water	N	Y	X	X	X	X		
SW-B-09252023-MSD	9/25/23	1300	G	Water	N	Y	X	X	X	X		
~~SW-B-04~~				Water					B	S		
FD-1-09252023	9/25/23	—	G	Water	N	N	X	X	X	X		
EB-1-09252023	9/25/23	—	G	Water	N	N	X	X	X	X		
TB-1-09252023	9/25/23	1525	G	TB				X				

480-213061 Chain of Custody

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/25/2023 1746	Ramboll	[signature]	9/26/23 1100	IAS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.0

Ver: 06/08/2021

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10/13/2023
10:08 AM

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BJS/TRQ	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-188443-37558.4
Client Contact: Mr. Paul D'Annibale	Phone: 518-470-3060	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 4 of 5
Company: Ramboll US Corporation	PWSID:			Job #:

Address: 94 New Karner Road Suite 106	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Albany	TAT Requested (days):		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: NY, 12203	Compliance Project: Δ Yes Δ No		
Phone: 518-724-7256(Tel)	PO #: 1940004949		Other:
Email: Paul.DAnnibale@ramboll.com	WO #:		
Project Name: GE - MRFA	Project #: 48025192		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175 - Ethane	8260C - TCL VOCs	6010C - Metals - Chromium, Total	7196A - Chromium, Hexavalent	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	A	D	N		
GW-M-26S-09262023	9/26/23	930	G	Water	N	N	X	X				
GW-M-26D-09262023	9/26/23	950	G	Water	N	N	X	X				
GW-11D-09262023	9/26/23	1130	G	Water	N	N	X	X				
DUP-2-09262023	9/26/23	—	G	Water	N	N	X	X				
GW-10S-09262023	9/26/23	1325	G	Water	N	N	X	X				
GW-10S-09262023-MS	9/26/23	1325	G	Water	N	Y	X	X				
GW-10S-09262023-MSD	9/26/23	1325	G	Water	N	Y	X	X				
GW-13S-09262023	9/26/23	1505	G	Water	N	N	X	X				
GW-M-27D-09262023	9/26/23	1630	G	Water	N	N	X	X	X	X		
EB-2-09262023	9/26/23	—	G	Water	N	N	X	X				
TB-2-09262023	9/26/23	1645	G	Water	N	N	X	X				

480-213117 Chain of Custody

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Fedex tracking #: 7842 7889 7569

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by: Thomas Ankenbauer	Date/Time: 9/26/23 1740	Company: Ramboll	Received by: Courtney	Date/Time: 9/27/23 1045	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 3.2

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: DJY/TRQ	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-188443-37558.1
Client Contact: Mr. Paul D'Annibale	Phone: 518-470-3060	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 5
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 94 New Karner Road Suite 106	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: NY, 12203	Compliance Project: Δ Yes Δ No			
Phone: 518-724-7256(Tel)	PO #: 1940004949			
Email: Paul.DAnnibale@ramboll.com	WO #:			
Project Name: GE - MRFA	Project #: 48025192			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175 - Ethane	8260C - TCL VOCs	6010C - Metals - Chromium, Total	7196A - Chromium, Hexavalent	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	D	N		
SW-D-09272023	9/27/23	1600	G	Water	N	N	X	X				
GW-M-28S-09272023	9/27/23	1405	G	Water	N	N	X	X				
GW-M-29S-09272023	9/27/23	1245	G	Water	N	N	X	X				
GW-MW-4-09272023	9/27/23	1105	G	Water	N	N	X	X				
GW-M-29D-09272023	9/27/23	1240	G	Water	N	N	X	X				
GW-M-25D-09272023	9/27/23	1520	G	Water	N	N	X	X				
GW-M-25S-09272023	9/27/23	1520	G	Water	N	N	X	X				
GW-M-1-09272023	9/27/23	955	G	Water	N	N	X	X				
GW-MW-28D-09272023	9/27/23	1355	G	Water	N	N	X	X				
EB-3-09272023	9/27/23	-	G	Water	N	N	X	X				
TB-3-09272023	9/27/23	1645	G	Water	N	N		X				

480-213168 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements: Tracking number: 8179599255 50

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Thomas Quinlan-SC	9/27/23 1730	Ramboll	Eastlee	9/28/23 1030	FAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.2

Ver: 06/08/2021

10/13/2023
10:08 AM

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing

Client Information	Sampler: BJS/TRQ	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-188443-37558.2
Client Contact: Mr. Paul D'Annibale	Phone: 518-470-3060	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:			Job #:
Address: 94 New Karner Road Suite 106	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: NY, 12203	Compliance Project: Δ Yes Δ No			
Phone: 518-724-7256(Tel)	PO #: 1940004949			
Email: Paul.DAnnibale@ramboll.com	WO #:			
Project Name: GE - MRFA	Project #: 48025192			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175 - Ethane	8260C - TCL VOCs	6010C - Metals - Chromium, Total	7196A - Chromium, Hexavalent	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	D	N		
GW-4S-09282023	9/28/23	850	G	Water			X	X				
GW-4D-09282023	9/28/23	855	G	Water			X	X				
GW-M-24DR-09282023	9/24/23	1100	G	Water			X	X				
GW-DGC-4S-09282023	9/28/23	1045	G	Water			X	X				
SW-F-09282023	9/28/23	1250	G	Water			X	X				
SW-A-09282023	9/28/23	1135	G	Water			X	X				
SW-E-09282023	9/28/23	1230	G	Water			X	X				
SW-9-09282023	9/28/23	1200	G	Water			X	X				
EB-4-09282023	9/28/23	—	G	Water			X	X				
TB-4-09282023	9/28/23	1500	G	Water			X	X				
				Water			X					

480-213196 Chain of Custody

Possible Hazard Identification

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Thomas Quackenbush	9/28/2023 1538	Ramboll	Kevin Quel	9-28-2023 15:36	Eurofins
2	Kevin Quel	9-28-2023 17:00	Eurofins	Lwalker	9/29/23 1030	LAB
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.4

Ver: 06/08/2021

10/13/2023 10:08 AM

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 480-213061-1
SDG Number: 480-213061-1

Login Number: 213061
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	RAMBOLL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 480-213061-1
SDG Number: 480-213061-1

Login Number: 213117
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	RAMBOLL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 480-213061-1
SDG Number: 480-213061-1

Login Number: 213168
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	RAMBOLL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 480-213061-1
SDG Number: 480-213061-1

Login Number: 213196
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	RAMBOLL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Client Sample ID: GW-13D-09252023

Date Collected: 09/25/23 16:25
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 00:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 00:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 00:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 00:32	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 00:32	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 00:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 00:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 00:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 00:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 00:32	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 00:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 00:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 00:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 00:32	1
2-Hexanone	5.0	U *+ -	5.0	1.2	ug/L			09/27/23 00:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 00:32	1
Acetone	10	U	10	3.0	ug/L			09/27/23 00:32	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 00:32	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 00:32	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 00:32	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 00:32	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 00:32	1
Carbon tetrachloride	**0.61**	**J**	1.0	0.27	ug/L			09/27/23 00:32	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 00:32	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 00:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 00:32	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 00:32	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 00:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 00:32	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 00:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 00:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 00:32	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 00:32	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 00:32	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 00:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 00:32	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 00:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 00:32	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 00:32	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 00:32	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 00:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 00:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 00:32	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 00:32	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 00:32	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 00:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 00:32	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-13D-09252023
Date Collected: 09/25/23 16:25
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/27/23 00:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*09/27/23 00:32*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*09/27/23 00:32*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/27/23 00:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 11:50	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0033**	**J**	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	0.010	U	0.010	0.0050	mg/L			09/26/23 12:24	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-B-09252023
Date Collected: 09/25/23 13:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 16:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 16:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 16:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 16:11	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 16:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 16:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 16:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 16:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 16:11	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 16:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 16:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 16:11	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 16:11	1
2-Hexanone	5.0	U ~~F1~~	5.0	1.2	ug/L			09/27/23 16:11	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 16:11	1
Acetone	10	U	10	3.0	ug/L			09/27/23 16:11	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 16:11	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 16:11	1
Bromoform	1.0	U ~~F1~~	1.0	0.26	ug/L			09/27/23 16:11	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 16:11	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 16:11	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 16:11	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 16:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 16:11	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 16:11	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 16:11	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 16:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 16:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 16:11	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 16:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 16:11	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 16:11	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 16:11	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 16:11	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 16:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 16:11	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 16:11	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 16:11	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 16:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 16:11	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 16:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 16:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 16:11	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 16:11	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 16:11	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 16:11	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 16:11	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-B-09252023

Date Collected: 09/25/23 13:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/27/23 16:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*09/27/23 16:11*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/27/23 16:11*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/27/23 16:11*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 11:31	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0014**	**J**	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 19:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	0.010	U	0.010	0.0050	mg/L			09/26/23 12:24	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: FD-1-09252023
Date Collected: 09/25/23 00:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-3
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 01:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 01:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 01:16	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 01:16	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 01:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 01:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 01:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 01:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 01:16	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 01:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 01:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 01:16	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 01:16	1
2-Hexanone	5.0	U *+	5.0	1.2	ug/L			09/27/23 01:16	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 01:16	1
Acetone	10	U	10	3.0	ug/L			09/27/23 01:16	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 01:16	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 01:16	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 01:16	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 01:16	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 01:16	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 01:16	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 01:16	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 01:16	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 01:16	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 01:16	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 01:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 01:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 01:16	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 01:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 01:16	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 01:16	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 01:16	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 01:16	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 01:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 01:16	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 01:16	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 01:16	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 01:16	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 01:16	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 01:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 01:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 01:16	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 01:16	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 01:16	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 01:16	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 01:16	1

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Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: FD-1-09252023
Date Collected: 09/25/23 00:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 01:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/27/23 01:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/27/23 01:16*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*09/27/23 01:16*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 12:09	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0015**	**J**	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	0.010	~~U H H3~~	0.010	0.0050	mg/L			09/26/23 12:24	1

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Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: EB-1-09252023
Date Collected: 09/25/23 00:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 01:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 01:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 01:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 01:38	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 01:38	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 01:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 01:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 01:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 01:38	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 01:38	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 01:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 01:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 01:38	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 01:38	1
2-Hexanone	5.0	U*+	5.0	1.2	ug/L			09/27/23 01:38	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 01:38	1
Acetone	**4.5**	**J**	10	3.0	ug/L			09/27/23 01:38	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 01:38	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 01:38	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 01:38	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 01:38	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 01:38	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 01:38	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 01:38	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 01:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 01:38	1
Chloroform	**0.57**	**J**	1.0	0.34	ug/L			09/27/23 01:38	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 01:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 01:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 01:38	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 01:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 01:38	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 01:38	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 01:38	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 01:38	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 01:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 01:38	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 01:38	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 01:38	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 01:38	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 01:38	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 01:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 01:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 01:38	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 01:38	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 01:38	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 01:38	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 01:38	1

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Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: EB-1-09252023
Date Collected: 09/25/23 00:00
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/27/23 01:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/27/23 01:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/27/23 01:38*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/27/23 01:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/27/23 12:28	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0013**	**J**	0.0040	0.0010	mg/L		09/27/23 08:17	10/09/23 20:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	0.010	~~U H H3~~	0.010	0.0050	mg/L			09/26/23 12:24	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-1-09252023
Date Collected: 09/25/23 15:25
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-5
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 02:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 02:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 02:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 02:00	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 02:00	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 02:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 02:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 02:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 02:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 02:00	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 02:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 02:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 02:00	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 02:00	1
2-Hexanone	5.0	U*+	5.0	1.2	ug/L			09/27/23 02:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 02:00	1
Acetone	10	U	10	3.0	ug/L			09/27/23 02:00	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 02:00	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 02:00	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 02:00	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 02:00	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 02:00	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 02:00	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 02:00	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 02:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 02:00	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 02:00	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 02:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 02:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 02:00	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 02:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 02:00	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 02:00	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 02:00	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 02:00	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 02:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 02:00	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 02:00	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 02:00	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 02:00	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 02:00	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 02:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 02:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 02:00	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 02:00	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 02:00	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 02:00	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 02:00	1

1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-1-09252023
Date Collected: 09/25/23 15:25
Date Received: 09/26/23 11:00

Lab Sample ID: 480-213061-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		09/27/23 02:00	1
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		09/27/23 02:00	1
4-Bromofluorobenzene (Surr)	102		73 - 120		09/27/23 02:00	1
Dibromofluoromethane (Surr)	98		75 - 123		09/27/23 02:00	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-26S-09262023
Date Collected: 09/26/23 09:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 18:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 18:00	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 18:00	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 18:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 18:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:00	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 18:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 18:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 18:00	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 18:00	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 18:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 18:00	1
Acetone	10	U	10	3.0	ug/L			09/27/23 18:00	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:00	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 18:00	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 18:00	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 18:00	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 18:00	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 18:00	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 18:00	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:00	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 18:00	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 18:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 18:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 18:00	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 18:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 18:00	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 18:00	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 18:00	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:00	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 18:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 18:00	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 18:00	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 18:00	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 18:00	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 18:00	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 18:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 18:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 18:00	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 18:00	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 18:00	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 18:00	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 18:00	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-26S-09262023
Date Collected: 09/26/23 09:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		80 - 120		09/27/23 18:00	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/27/23 18:00	1
4-Bromofluorobenzene (Surr)	109		73 - 120		09/27/23 18:00	1
Dibromofluoromethane (Surr)	103		75 - 123		09/27/23 18:00	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 12:14	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-26D-09262023
Date Collected: 09/26/23 09:50
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 18:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 18:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 18:24	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 18:24	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 18:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 18:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:24	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 18:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 18:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 18:24	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 18:24	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 18:24	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 18:24	1
Acetone	10	U	10	3.0	ug/L			09/27/23 18:24	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:24	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 18:24	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 18:24	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 18:24	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 18:24	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 18:24	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 18:24	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:24	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:24	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 18:24	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 18:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 18:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 18:24	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 18:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 18:24	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 18:24	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 18:24	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:24	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 18:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 18:24	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 18:24	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 18:24	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 18:24	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 18:24	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 18:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 18:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 18:24	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 18:24	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 18:24	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 18:24	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 18:24	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-26D-09262023
Date Collected: 09/26/23 09:50
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/27/23 18:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*09/27/23 18:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/27/23 18:24*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/27/23 18:24*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 12:33	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-11D-09262023
Date Collected: 09/26/23 11:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-3
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 18:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 18:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 18:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 18:49	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 18:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 18:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 18:49	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 18:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 18:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 18:49	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 18:49	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 18:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 18:49	1
Acetone	10	U	10	3.0	ug/L			09/27/23 18:49	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 18:49	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 18:49	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 18:49	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 18:49	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 18:49	1
Carbon tetrachloride	**4.7**		1.0	0.27	ug/L			09/27/23 18:49	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 18:49	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 18:49	1
Chloroform	~~0.50~~ ~~J~~ 1.0 U		1.0	0.34	ug/L			09/27/23 18:49	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 18:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 18:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 18:49	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 18:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 18:49	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 18:49	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 18:49	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 18:49	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 18:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 18:49	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 18:49	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 18:49	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 18:49	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 18:49	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 18:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 18:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 18:49	1
Trichloroethene	**1.4**		1.0	0.46	ug/L			09/27/23 18:49	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 18:49	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 18:49	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 18:49	1

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Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-11D-09262023
Date Collected: 09/26/23 11:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/27/23 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/27/23 18:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/27/23 18:49*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/27/23 18:49*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 12:52	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: DUP-2-09262023
Date Collected: 09/26/23 00:00
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 19:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 19:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 19:13	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 19:13	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 19:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 19:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 19:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 19:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 19:13	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 19:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 19:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 19:13	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 19:13	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 19:13	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 19:13	1
Acetone	10	U	10	3.0	ug/L			09/27/23 19:13	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 19:13	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 19:13	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 19:13	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 19:13	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 19:13	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 19:13	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 19:13	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 19:13	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 19:13	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 19:13	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 19:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 19:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 19:13	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 19:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 19:13	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 19:13	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 19:13	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 19:13	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 19:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 19:13	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 19:13	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 19:13	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 19:13	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 19:13	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 19:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 19:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 19:13	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 19:13	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 19:13	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 19:13	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 19:13	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: DUP-2-09262023

Date Collected: 09/26/23 00:00
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/23 19:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/27/23 19:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/27/23 19:13*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*09/27/23 19:13*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 13:11	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-10S-09262023
Date Collected: 09/26/23 13:25
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-5
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 19:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 19:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 19:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 19:37	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 19:37	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 19:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 19:37	1
1,2-Dibromo-3-Chloropropane	1.0	U ~~F2~~	1.0	0.39	ug/L			09/27/23 19:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 19:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 19:37	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 19:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 19:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 19:37	1
2-Butanone (MEK)	10	U ~~F2~~	10	1.3	ug/L			09/27/23 19:37	1
2-Hexanone	5.0	U ~~F2~~	5.0	1.2	ug/L			09/27/23 19:37	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 19:37	1
Acetone	10	U ~~F2~~	10	3.0	ug/L			09/27/23 19:37	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 19:37	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 19:37	1
Bromoform	1.0	U ~~F2~~	1.0	0.26	ug/L			09/27/23 19:37	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 19:37	1
Carbon disulfide	1.0	U ~~F2~~	1.0	0.19	ug/L			09/27/23 19:37	1
Carbon tetrachloride	**0.43**	**J**	1.0	0.27	ug/L			09/27/23 19:37	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 19:37	1
Dibromochloromethane	1.0	U ~~F2~~	1.0	0.32	ug/L			09/27/23 19:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 19:37	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 19:37	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 19:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 19:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 19:37	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 19:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 19:37	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 19:37	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 19:37	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 19:37	1
Methyl acetate	2.5	U ~~F2~~	2.5	1.3	ug/L			09/27/23 19:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 19:37	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 19:37	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 19:37	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 19:37	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 19:37	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 19:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 19:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 19:37	1
Trichloroethene	**0.73**	**J**	1.0	0.46	ug/L			09/27/23 19:37	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 19:37	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 19:37	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 19:37	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-10S-09262023
Date Collected: 09/26/23 13:25
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/27/23 19:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/27/23 19:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/27/23 19:37*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/27/23 19:37*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 13:30	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-13S-09262023
Date Collected: 09/26/23 15:05
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-6
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 20:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 20:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.42**	**J**	1.0	0.31	ug/L			09/27/23 20:02	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 20:02	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 20:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 20:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:02	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:02	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 20:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 20:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 20:02	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 20:02	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 20:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 20:02	1
Acetone	10	U	10	3.0	ug/L			09/27/23 20:02	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:02	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 20:02	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 20:02	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 20:02	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 20:02	1
Carbon tetrachloride	**1.3**		1.0	0.27	ug/L			09/27/23 20:02	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 20:02	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:02	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 20:02	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 20:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 20:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 20:02	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 20:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 20:02	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 20:02	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 20:02	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:02	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 20:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 20:02	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 20:02	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 20:02	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 20:02	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 20:02	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 20:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 20:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 20:02	1
Trichloroethene	**1.0**		1.0	0.46	ug/L			09/27/23 20:02	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 20:02	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 20:02	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 20:02	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-13S-09262023

Date Collected: 09/26/23 15:05
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/27/23 20:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/27/23 20:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*09/27/23 20:02*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*09/27/23 20:02*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 13:48	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-27D-09262023
Date Collected: 09/26/23 16:30
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-7
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 20:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 20:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.77**	**J**	1.0	0.31	ug/L			09/27/23 20:27	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 20:27	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 20:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 20:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:27	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 20:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 20:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 20:27	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 20:27	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 20:27	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 20:27	1
Acetone	10	U	10	3.0	ug/L			09/27/23 20:27	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:27	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 20:27	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 20:27	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 20:27	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 20:27	1
Carbon tetrachloride	**8.4**		1.0	0.27	ug/L			09/27/23 20:27	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 20:27	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:27	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:27	1
Chloroform	**2.2**		1.0	0.34	ug/L			09/27/23 20:27	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 20:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 20:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 20:27	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 20:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 20:27	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 20:27	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 20:27	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:27	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 20:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 20:27	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 20:27	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 20:27	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 20:27	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 20:27	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 20:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 20:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 20:27	1
Trichloroethene	**3.3**		1.0	0.46	ug/L			09/27/23 20:27	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 20:27	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 20:27	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 20:27	1

Client Sample ID: GW-M-27D-09262023
Lab Sample ID: 480-213117-7

Date Collected: 09/26/23 16:30
Matrix: Water
Date Received: 09/27/23 10:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/27/23 20:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*09/27/23 20:27*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/27/23 20:27*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/27/23 20:27*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 14:07	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.063**		0.0040	0.0010	mg/L		09/29/23 08:13	10/08/23 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	**0.0092**	**J**	0.010	0.0050	mg/L			09/27/23 14:16	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: EB-2-09262023
Date Collected: 09/26/23 00:00
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-8
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 20:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 20:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 20:51	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 20:51	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 20:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:51	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 20:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 20:51	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 20:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 20:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 20:51	1
2-Butanone (MEK)	**1.9**	**J**	10	1.3	ug/L			09/27/23 20:51	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 20:51	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 20:51	1
Acetone	**7.0**	**J**	10	3.0	ug/L			09/27/23 20:51	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 20:51	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 20:51	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 20:51	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 20:51	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 20:51	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 20:51	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 20:51	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:51	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 20:51	1
Chloroform	**0.52**	**J**	1.0	0.34	ug/L			09/27/23 20:51	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 20:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 20:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 20:51	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 20:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 20:51	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 20:51	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 20:51	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 20:51	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 20:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 20:51	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 20:51	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 20:51	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 20:51	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 20:51	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 20:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 20:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 20:51	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 20:51	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 20:51	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 20:51	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 20:51	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: EB-2-09262023

Date Collected: 09/26/23 00:00
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/27/23 20:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/27/23 20:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*09/27/23 20:51*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/27/23 20:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/28/23 14:26	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-2-09262023
Date Collected: 09/26/23 16:45
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-9
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/27/23 21:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 21:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/27/23 21:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/27/23 21:15	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/27/23 21:15	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/23 21:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/27/23 21:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/27/23 21:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/27/23 21:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/27/23 21:15	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/27/23 21:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/27/23 21:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/27/23 21:15	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/27/23 21:15	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/27/23 21:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/27/23 21:15	1
Acetone	10	U	10	3.0	ug/L			09/27/23 21:15	1
Benzene	1.0	U	1.0	0.41	ug/L			09/27/23 21:15	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/27/23 21:15	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/27/23 21:15	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/27/23 21:15	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			09/27/23 21:15	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/27/23 21:15	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/27/23 21:15	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/27/23 21:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/27/23 21:15	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/27/23 21:15	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/27/23 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/27/23 21:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/27/23 21:15	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/27/23 21:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/27/23 21:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/27/23 21:15	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/27/23 21:15	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/27/23 21:15	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/27/23 21:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/27/23 21:15	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/27/23 21:15	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/27/23 21:15	1
Styrene	1.0	U	1.0	0.73	ug/L			09/27/23 21:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/27/23 21:15	1
Toluene	1.0	U	1.0	0.51	ug/L			09/27/23 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/27/23 21:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/27/23 21:15	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/27/23 21:15	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/27/23 21:15	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/27/23 21:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/27/23 21:15	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-2-09262023
Date Collected: 09/26/23 16:45
Date Received: 09/27/23 10:45

Lab Sample ID: 480-213117-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		09/27/23 21:15	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/27/23 21:15	1
4-Bromofluorobenzene (Surr)	92		73 - 120		09/27/23 21:15	1
Dibromofluoromethane (Surr)	100		75 - 123		09/27/23 21:15	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-D-09272023
Date Collected: 09/27/23 16:00
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 04:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 04:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 04:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 04:29	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 04:29	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 04:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 04:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 04:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 04:29	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 04:29	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 04:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 04:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 04:29	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 04:29	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 04:29	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 04:29	1
Acetone	10	~~U~~ ~~+~~	10	3.0	ug/L			09/29/23 04:29	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 04:29	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 04:29	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 04:29	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 04:29	1
Carbon disulfide	1.0	~~U~~ - UJ	1.0	0.19	ug/L			09/29/23 04:29	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 04:29	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 04:29	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 04:29	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 04:29	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 04:29	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 04:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 04:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 04:29	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 04:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 04:29	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 04:29	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 04:29	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 04:29	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 04:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 04:29	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 04:29	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 04:29	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 04:29	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 04:29	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 04:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 04:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 04:29	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 04:29	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 04:29	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 04:29	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 04:29	1

VJH 1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-D-09272023
Date Collected: 09/27/23 16:00
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		09/29/23 04:29	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		09/29/23 04:29	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/29/23 04:29	1
Dibromofluoromethane (Surr)	101		75 - 123		09/29/23 04:29	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 08:44	1

Client Sample ID: GW-M-28S-09272023

Date Collected: 09/27/23 14:05
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 04:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 04:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 04:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**2.1**		1.0	0.31	ug/L			09/29/23 04:53	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 04:53	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 04:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 04:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 04:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 04:53	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 04:53	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 04:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 04:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 04:53	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 04:53	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 04:53	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 04:53	1
Acetone	10	U*+	10	3.0	ug/L			09/29/23 04:53	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 04:53	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 04:53	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 04:53	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 04:53	1
Carbon disulfide	1.0	U- UJ	1.0	0.19	ug/L			09/29/23 04:53	1
Carbon tetrachloride	**4.1**		1.0	0.27	ug/L			09/29/23 04:53	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 04:53	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 04:53	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 04:53	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 04:53	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 04:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 04:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 04:53	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 04:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 04:53	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 04:53	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 04:53	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 04:53	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 04:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 04:53	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 04:53	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 04:53	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 04:53	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 04:53	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 04:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 04:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 04:53	1
Trichloroethene	**14**		1.0	0.46	ug/L			09/29/23 04:53	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 04:53	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 04:53	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 04:53	1

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Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-28S-09272023
Date Collected: 09/27/23 14:05
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 04:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*09/29/23 04:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/29/23 04:53*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*09/29/23 04:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 09:03	1

Client Sample ID: GW-M-29S-09272023

Date Collected: 09/27/23 12:45
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 05:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 05:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 05:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 05:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 05:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 05:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 05:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 05:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 05:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 05:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 05:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 05:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 05:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 05:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 05:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 05:18	1
Acetone	10	~~U*+~~	10	3.0	ug/L			09/29/23 05:18	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 05:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 05:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 05:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 05:18	1
Carbon disulfide	1.0	~~U~~ UJ	1.0	0.19	ug/L			09/29/23 05:18	1
Carbon tetrachloride	**2.2**		1.0	0.27	ug/L			09/29/23 05:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 05:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 05:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 05:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 05:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 05:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 05:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 05:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 05:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 05:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 05:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 05:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 05:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 05:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 05:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 05:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 05:18	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 05:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 05:18	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 05:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 05:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 05:18	1
Trichloroethene	**4.2**		1.0	0.46	ug/L			09/29/23 05:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 05:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 05:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 05:18	1

VJM 1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-29S-09272023
Date Collected: 09/27/23 12:45
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/23 05:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 05:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/29/23 05:18*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/29/23 05:18*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 09:21	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-MW-4-09272023
Date Collected: 09/27/23 11:05
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 05:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 05:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 05:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 05:42	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 05:42	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 05:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 05:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 05:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 05:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 05:42	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 05:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 05:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 05:42	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 05:42	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 05:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 05:42	1
Acetone	10	U~~*+~~	10	3.0	ug/L			09/29/23 05:42	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 05:42	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 05:42	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 05:42	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 05:42	1
Carbon disulfide	1.0	~~U~~ UJ	1.0	0.19	ug/L			09/29/23 05:42	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 05:42	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 05:42	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 05:42	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 05:42	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 05:42	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 05:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 05:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 05:42	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 05:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 05:42	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 05:42	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 05:42	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 05:42	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 05:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 05:42	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 05:42	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 05:42	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 05:42	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 05:42	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 05:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 05:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 05:42	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 05:42	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 05:42	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 05:42	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 05:42	1

VJH 1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-MW-4-09272023
Date Collected: 09/27/23 11:05
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/23 05:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*09/29/23 05:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/29/23 05:42*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*09/29/23 05:42*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 09:40	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-29D-09272023
Date Collected: 09/27/23 12:40
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-5
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 06:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 06:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.3**		1.0	0.31	ug/L			09/29/23 06:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 06:07	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 06:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 06:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:07	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 06:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 06:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 06:07	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 06:07	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 06:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 06:07	1
Acetone	10	U~~*+~~	10	3.0	ug/L			09/29/23 06:07	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:07	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 06:07	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 06:07	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 06:07	1
Carbon disulfide	1.0	~~U~~- UJ	1.0	0.19	ug/L			09/29/23 06:07	1
Carbon tetrachloride	**9.0**		1.0	0.27	ug/L			09/29/23 06:07	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 06:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:07	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 06:07	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 06:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 06:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 06:07	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 06:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 06:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 06:07	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 06:07	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:07	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 06:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 06:07	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 06:07	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 06:07	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 06:07	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 06:07	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 06:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 06:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 06:07	1
Trichloroethene	**27**		1.0	0.46	ug/L			09/29/23 06:07	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 06:07	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 06:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 06:07	1

VJM 1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-29D-09272023
Date Collected: 09/27/23 12:40
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/29/23 06:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*09/29/23 06:07*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*09/29/23 06:07*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*09/29/23 06:07*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 09:59	1

Client Sample ID: GW-M-25D-09272023

Date Collected: 09/27/23 15:20
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-6

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 06:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 06:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.59**	**J**	1.0	0.31	ug/L			09/29/23 06:31	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 06:31	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 06:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 06:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:31	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 06:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 06:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 06:31	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 06:31	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 06:31	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 06:31	1
Acetone	10	U~~*+~~	10	3.0	ug/L			09/29/23 06:31	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:31	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 06:31	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 06:31	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 06:31	1
Carbon disulfide	1.0	~~U~~ UJ	1.0	0.19	ug/L			09/29/23 06:31	1
Carbon tetrachloride	**19**		1.0	0.27	ug/L			09/29/23 06:31	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 06:31	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:31	1
Chloroform	**1.1**		1.0	0.34	ug/L			09/29/23 06:31	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 06:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 06:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 06:31	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 06:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 06:31	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 06:31	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 06:31	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:31	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 06:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 06:31	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 06:31	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 06:31	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 06:31	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 06:31	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 06:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 06:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 06:31	1
Trichloroethene	**51**		1.0	0.46	ug/L			09/29/23 06:31	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 06:31	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 06:31	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 06:31	1

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Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-25D-09272023
Date Collected: 09/27/23 15:20
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/29/23 06:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/29/23 06:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/29/23 06:31*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/29/23 06:31*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 10:18	1

Client Sample ID: GW-M-25S-09272023

Date Collected: 09/27/23 15:20
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 06:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 06:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.85**	**J**	1.0	0.31	ug/L			09/29/23 06:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 06:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 06:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 06:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 06:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 06:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 06:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 06:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 06:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 06:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 06:56	1
Acetone	10	U *+-	10	3.0	ug/L			09/29/23 06:56	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 06:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 06:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 06:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 06:56	1
Carbon disulfide	1.0	~~U~~ UJ	1.0	0.19	ug/L			09/29/23 06:56	1
Carbon tetrachloride	**11**		1.0	0.27	ug/L			09/29/23 06:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 06:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 06:56	1
Chloroform	**0.59**	**J**	1.0	0.34	ug/L			09/29/23 06:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 06:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 06:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 06:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 06:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 06:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 06:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 06:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 06:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 06:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 06:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 06:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 06:56	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 06:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 06:56	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 06:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 06:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 06:56	1
Trichloroethene	**26**		1.0	0.46	ug/L			09/29/23 06:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 06:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 06:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 06:56	1

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Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-25S-09272023
Date Collected: 09/27/23 15:20
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/23 06:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 06:56*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*09/29/23 06:56*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*09/29/23 06:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 10:37	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-1-09272023
Date Collected: 09/27/23 09:55
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-8
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 07:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 07:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 07:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 07:20	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 07:20	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 07:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 07:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 07:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 07:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 07:20	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 07:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 07:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 07:20	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 07:20	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 07:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 07:20	1
Acetone	10	U~~*+~~	10	3.0	ug/L			09/29/23 07:20	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 07:20	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 07:20	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 07:20	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 07:20	1
Carbon disulfide	1.0	~~U~~ - UJ	1.0	0.19	ug/L			09/29/23 07:20	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 07:20	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 07:20	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 07:20	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 07:20	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 07:20	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 07:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 07:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 07:20	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 07:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 07:20	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 07:20	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 07:20	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 07:20	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 07:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 07:20	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 07:20	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 07:20	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 07:20	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 07:20	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 07:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 07:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 07:20	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 07:20	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 07:20	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 07:20	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 07:20	1

VJM 1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-1-09272023
Date Collected: 09/27/23 09:55
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/29/23 07:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/29/23 07:20*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*09/29/23 07:20*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/29/23 07:20*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 10:56	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-28D-0929023
Date Collected: 09/27/23 13:55
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-9
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 07:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 07:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 07:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 07:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 07:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 07:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 07:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 07:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 07:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 07:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 07:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 07:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 07:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 07:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 07:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 07:45	1
Acetone	10	U~~*+~~	10	3.0	ug/L			09/29/23 07:45	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 07:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 07:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 07:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 07:45	1
Carbon disulfide	1.0	~~U~~- UJ	1.0	0.19	ug/L			09/29/23 07:45	1
Carbon tetrachloride	**1.6**		1.0	0.27	ug/L			09/29/23 07:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 07:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 07:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 07:45	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 07:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 07:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 07:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 07:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 07:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 07:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 07:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 07:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 07:45	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 07:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 07:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 07:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 07:45	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 07:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 07:45	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 07:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 07:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 07:45	1
Trichloroethene	**0.63**	**J**	1.0	0.46	ug/L			09/29/23 07:45	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 07:45	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 07:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 07:45	1

VJM 1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-28D-0929023
Date Collected: 09/27/23 13:55
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/29/23 07:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 07:45*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*09/29/23 07:45*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*09/29/23 07:45*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 11:15	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: EB-3-09272023
Date Collected: 09/27/23 00:00
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-10
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 08:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 08:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 08:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 08:09	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 08:09	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 08:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 08:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 08:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 08:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 08:09	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 08:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 08:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 08:09	1
2-Butanone (MEK)	**1.7**	**J**	10	1.3	ug/L			09/29/23 08:09	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 08:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 08:09	1
Acetone	**5.8**	**J** ~~*+~~	10	3.0	ug/L			09/29/23 08:09	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 08:09	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 08:09	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 08:09	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 08:09	1
Carbon disulfide	1.0	~~U~~ UJ	1.0	0.19	ug/L			09/29/23 08:09	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 08:09	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 08:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 08:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 08:09	1
Chloroform	**0.53**	**J**	1.0	0.34	ug/L			09/29/23 08:09	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 08:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 08:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 08:09	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 08:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 08:09	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 08:09	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 08:09	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 08:09	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 08:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 08:09	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 08:09	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 08:09	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 08:09	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 08:09	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 08:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 08:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 08:09	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 08:09	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 08:09	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 08:09	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 08:09	1

VJM 1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: EB-3-09272023
Date Collected: 09/27/23 00:00
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/29/23 08:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/29/23 08:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/29/23 08:09*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*09/29/23 08:09*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			09/29/23 11:33	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-3-09272023
Date Collected: 09/27/23 16:45
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-11
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			09/29/23 08:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 08:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/29/23 08:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			09/29/23 08:33	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			09/29/23 08:33	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/29/23 08:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			09/29/23 08:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			09/29/23 08:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			09/29/23 08:33	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			09/29/23 08:33	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			09/29/23 08:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			09/29/23 08:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			09/29/23 08:33	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			09/29/23 08:33	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			09/29/23 08:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			09/29/23 08:33	1
Acetone	10	U~~*+~~	10	3.0	ug/L			09/29/23 08:33	1
Benzene	1.0	U	1.0	0.41	ug/L			09/29/23 08:33	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			09/29/23 08:33	1
Bromoform	1.0	U	1.0	0.26	ug/L			09/29/23 08:33	1
Bromomethane	1.0	U	1.0	0.69	ug/L			09/29/23 08:33	1
Carbon disulfide	1.0	~~U~~ - UJ	1.0	0.19	ug/L			09/29/23 08:33	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			09/29/23 08:33	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			09/29/23 08:33	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			09/29/23 08:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/23 08:33	1
Chloroform	1.0	U	1.0	0.34	ug/L			09/29/23 08:33	1
Chloromethane	1.0	U	1.0	0.35	ug/L			09/29/23 08:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			09/29/23 08:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			09/29/23 08:33	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			09/29/23 08:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			09/29/23 08:33	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/29/23 08:33	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			09/29/23 08:33	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			09/29/23 08:33	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			09/29/23 08:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			09/29/23 08:33	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			09/29/23 08:33	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			09/29/23 08:33	1
Styrene	1.0	U	1.0	0.73	ug/L			09/29/23 08:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			09/29/23 08:33	1
Toluene	1.0	U	1.0	0.51	ug/L			09/29/23 08:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			09/29/23 08:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			09/29/23 08:33	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			09/29/23 08:33	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			09/29/23 08:33	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			09/29/23 08:33	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/29/23 08:33	1

VJH 1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-3-09272023
Date Collected: 09/27/23 16:45
Date Received: 09/28/23 10:30

Lab Sample ID: 480-213168-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/29/23 08:33	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		09/29/23 08:33	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/29/23 08:33	1
Dibromofluoromethane (Surr)	102		75 - 123		09/29/23 08:33	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-4S-09282023
Date Collected: 09/28/23 08:50
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 17:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 17:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 17:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 17:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 17:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 17:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 17:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 17:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 17:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 17:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 17:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 17:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 17:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 17:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 17:56	1
Acetone	10	U	10	3.0	ug/L			10/02/23 17:56	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 17:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 17:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 17:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 17:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 17:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 17:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 17:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 17:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 17:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 17:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 17:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 17:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 17:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 17:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 17:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 17:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 17:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 17:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 17:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 17:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 17:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 17:56	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 17:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 17:56	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 17:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 17:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 17:56	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 17:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 17:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 17:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 17:56	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-4S-09282023
Date Collected: 09/28/23 08:50
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/02/23 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/02/23 17:56*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*10/02/23 17:56*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/02/23 17:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 08:38	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-4D-09282023
Date Collected: 09/28/23 08:55
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-2
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 18:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 18:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 18:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 18:19	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 18:19	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 18:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 18:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 18:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 18:19	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 18:19	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 18:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 18:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 18:19	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 18:19	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 18:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 18:19	1
Acetone	10	U	10	3.0	ug/L			10/02/23 18:19	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 18:19	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 18:19	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 18:19	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 18:19	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 18:19	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 18:19	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 18:19	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 18:19	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 18:19	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 18:19	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 18:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 18:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 18:19	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 18:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 18:19	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 18:19	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 18:19	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 18:19	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 18:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 18:19	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 18:19	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 18:19	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 18:19	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 18:19	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 18:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 18:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 18:19	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 18:19	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 18:19	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 18:19	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 18:19	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-4D-09282023
Date Collected: 09/28/23 08:55
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/02/23 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/02/23 18:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/02/23 18:19*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/02/23 18:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 08:57	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-24DR-09282023
Date Collected: 09/28/23 11:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-3
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 18:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 18:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 18:41	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 18:41	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 18:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 18:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 18:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 18:41	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 18:41	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 18:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 18:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 18:41	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 18:41	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 18:41	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 18:41	1
Acetone	10	U	10	3.0	ug/L			10/02/23 18:41	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 18:41	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 18:41	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 18:41	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 18:41	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 18:41	1
Carbon tetrachloride	**4.0**		1.0	0.27	ug/L			10/02/23 18:41	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 18:41	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 18:41	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 18:41	1
Chloroform	~~0.61~~ ~~J~~ 1.0 U		1.0	0.34	ug/L			10/02/23 18:41	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 18:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 18:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 18:41	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 18:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 18:41	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 18:41	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 18:41	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 18:41	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 18:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 18:41	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 18:41	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 18:41	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 18:41	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 18:41	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 18:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 18:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 18:41	1
Trichloroethene	**6.3**		1.0	0.46	ug/L			10/02/23 18:41	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 18:41	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 18:41	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 18:41	1

1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-M-24DR-09282023
Date Collected: 09/28/23 11:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/02/23 18:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/02/23 18:41*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*10/02/23 18:41*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/02/23 18:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 09:16	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-DGC-4S-09282023
Date Collected: 09/28/23 10:45
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 19:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 19:03	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 19:03	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 19:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 19:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:03	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 19:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 19:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 19:03	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 19:03	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 19:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 19:03	1
Acetone	10	U	10	3.0	ug/L			10/02/23 19:03	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:03	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 19:03	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 19:03	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 19:03	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 19:03	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 19:03	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 19:03	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:03	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 19:03	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 19:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 19:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 19:03	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 19:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 19:03	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 19:03	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 19:03	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:03	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 19:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 19:03	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 19:03	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 19:03	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 19:03	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 19:03	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 19:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 19:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 19:03	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 19:03	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 19:03	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 19:03	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 19:03	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: GW-DGC-4S-09282023
Date Collected: 09/28/23 10:45
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/02/23 19:03*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/02/23 19:03*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/02/23 19:03*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 09:35	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-F-09282023
Date Collected: 09/28/23 12:50
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-5
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 19:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 19:25	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 19:25	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 19:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 19:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:25	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 19:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 19:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 19:25	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 19:25	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 19:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 19:25	1
Acetone	10	U	10	3.0	ug/L			10/02/23 19:25	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:25	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 19:25	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 19:25	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 19:25	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 19:25	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 19:25	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 19:25	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:25	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:25	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 19:25	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 19:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 19:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 19:25	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 19:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 19:25	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 19:25	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 19:25	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:25	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 19:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 19:25	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 19:25	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 19:25	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 19:25	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 19:25	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 19:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 19:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 19:25	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 19:25	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 19:25	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 19:25	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 19:25	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-F-09282023
Date Collected: 09/28/23 12:50
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*10/02/23 19:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*10/02/23 19:25*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*10/02/23 19:25*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 09:53	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-A-09282023
Date Collected: 09/28/23 11:35
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-6
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 19:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 19:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 19:47	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 19:47	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 19:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 19:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 19:47	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 19:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 19:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 19:47	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 19:47	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 19:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 19:47	1
Acetone	10	U	10	3.0	ug/L			10/02/23 19:47	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 19:47	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 19:47	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 19:47	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 19:47	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 19:47	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 19:47	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 19:47	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:47	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 19:47	1
Chloroform	~~0.78~~ ~~J~~ -- 1.0 U		1.0	0.34	ug/L			10/02/23 19:47	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 19:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 19:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 19:47	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 19:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 19:47	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 19:47	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 19:47	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 19:47	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 19:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 19:47	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 19:47	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 19:47	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 19:47	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 19:47	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 19:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 19:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 19:47	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 19:47	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 19:47	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 19:47	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 19:47	1

1/3/24

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-A-09282023
Date Collected: 09/28/23 11:35
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 19:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/02/23 19:47*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*10/02/23 19:47*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/02/23 19:47*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 10:12	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-E-09282023
Date Collected: 09/28/23 12:30
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-7
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 20:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 20:09	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 20:09	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 20:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 20:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:09	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 20:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 20:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 20:09	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 20:09	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 20:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 20:09	1
Acetone	10	U	10	3.0	ug/L			10/02/23 20:09	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:09	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 20:09	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 20:09	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 20:09	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 20:09	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 20:09	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 20:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:09	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 20:09	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 20:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 20:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 20:09	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 20:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 20:09	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 20:09	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 20:09	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:09	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 20:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 20:09	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 20:09	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 20:09	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 20:09	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 20:09	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 20:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 20:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 20:09	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 20:09	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 20:09	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 20:09	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 20:09	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-E-09282023
Date Collected: 09/28/23 12:30
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/02/23 20:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/02/23 20:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*10/02/23 20:09*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/02/23 20:09*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 10:31	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-G-09282023
Date Collected: 09/28/23 12:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-8
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 20:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 20:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 20:31	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 20:31	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 20:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 20:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:31	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 20:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 20:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 20:31	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 20:31	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 20:31	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 20:31	1
Acetone	10	U	10	3.0	ug/L			10/02/23 20:31	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:31	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 20:31	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 20:31	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 20:31	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 20:31	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 20:31	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 20:31	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:31	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 20:31	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 20:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 20:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 20:31	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 20:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 20:31	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 20:31	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 20:31	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:31	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 20:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 20:31	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 20:31	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 20:31	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 20:31	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 20:31	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 20:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 20:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 20:31	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 20:31	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 20:31	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 20:31	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 20:31	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: SW-G-09282023
Date Collected: 09/28/23 12:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/02/23 20:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*10/02/23 20:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/02/23 20:31*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/02/23 20:31*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 10:50	1

Client Sample ID: EB-4-09282023

Date Collected: 09/28/23 00:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-9

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 20:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 20:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 20:53	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 20:53	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 20:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 20:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:53	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 20:53	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 20:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 20:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 20:53	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 20:53	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 20:53	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 20:53	1
Acetone	**5.4**	**J**	10	3.0	ug/L			10/02/23 20:53	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 20:53	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 20:53	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 20:53	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 20:53	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 20:53	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 20:53	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 20:53	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:53	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 20:53	1
Chloroform	**0.58**	**J**	1.0	0.34	ug/L			10/02/23 20:53	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 20:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 20:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 20:53	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 20:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 20:53	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 20:53	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 20:53	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 20:53	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 20:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 20:53	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 20:53	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 20:53	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 20:53	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 20:53	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 20:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 20:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 20:53	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 20:53	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 20:53	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 20:53	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 20:53	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: EB-4-09282023

Date Collected: 09/28/23 00:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/02/23 20:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*10/02/23 20:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/02/23 20:53*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/02/23 20:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	7.5	U	7.5	1.5	ug/L			10/04/23 11:09	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-4-09282023
Date Collected: 09/28/23 15:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-10
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			10/02/23 21:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 21:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			10/02/23 21:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			10/02/23 21:15	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			10/02/23 21:15	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			10/02/23 21:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			10/02/23 21:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			10/02/23 21:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			10/02/23 21:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/02/23 21:15	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			10/02/23 21:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			10/02/23 21:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			10/02/23 21:15	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			10/02/23 21:15	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			10/02/23 21:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			10/02/23 21:15	1
Acetone	10	U	10	3.0	ug/L			10/02/23 21:15	1
Benzene	1.0	U	1.0	0.41	ug/L			10/02/23 21:15	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			10/02/23 21:15	1
Bromoform	1.0	U	1.0	0.26	ug/L			10/02/23 21:15	1
Bromomethane	1.0	U	1.0	0.69	ug/L			10/02/23 21:15	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			10/02/23 21:15	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			10/02/23 21:15	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			10/02/23 21:15	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			10/02/23 21:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/23 21:15	1
Chloroform	1.0	U	1.0	0.34	ug/L			10/02/23 21:15	1
Chloromethane	1.0	U	1.0	0.35	ug/L			10/02/23 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			10/02/23 21:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			10/02/23 21:15	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			10/02/23 21:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			10/02/23 21:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			10/02/23 21:15	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			10/02/23 21:15	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			10/02/23 21:15	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			10/02/23 21:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			10/02/23 21:15	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			10/02/23 21:15	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			10/02/23 21:15	1
Styrene	1.0	U	1.0	0.73	ug/L			10/02/23 21:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			10/02/23 21:15	1
Toluene	1.0	U	1.0	0.51	ug/L			10/02/23 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			10/02/23 21:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			10/02/23 21:15	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			10/02/23 21:15	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			10/02/23 21:15	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			10/02/23 21:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			10/02/23 21:15	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Malta Rocket Fuel (MRFA)

Job ID: 480-213061-1
SDG: 480-213061-1

Client Sample ID: TB-4-09282023
Date Collected: 09/28/23 15:00
Date Received: 09/29/23 10:30

Lab Sample ID: 480-213196-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		10/02/23 21:15	1
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		10/02/23 21:15	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/02/23 21:15	1
Dibromofluoromethane (Surr)	96		75 - 123		10/02/23 21:15	1

Appendix C

Summary of Historic Water Quality Analytical Results

APPENDIX TABLE 1

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds DGC-3S	Remedial Action Objective	6/29-7/1/1987	7/31/1987	11/5/1987	1/19-1/20/1988	4/18-4/19/1988	7/20-7/21/1988	10/11-10/12/1988	1/19-1/20/1989	4/10/1989	7/12/1989	8/15/1989
Benzene	0.7*	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
DGC-4S												
Carbon Disulfide	None*	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
Chromium	50*	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
13S												
Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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JUNE 1987 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds DGC-3S	Remedial Action Objective	11/30/1989	5/30/1990	8/28/1990	12/6/1990	4/8-4/10/1991	6/12-6/13/1991	9/23-9/24/1991	12/26-12/27/1991	2/10-2/11/1992	6/1-6/2/1992	9/28-9/29/1992
Benzene	0.7*	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND/NDdp	ND	ND
Carbon Disulfide	None*	ND	ND	ND	NA	8 V / 7 Vdp	4	ND	ND	ND/NDdp	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	6.1	62.2E/70.3Edp	2/ND*, 14.6/ND	25.2/ND*	ND
Hexavalent Chromium	50*	no data	NA	NA	NA	NA	NA	NA	NA	ND/4*/ND dp	NA	NA
DGC-4S												
Carbon Disulfide	None*	- -	- -	- -	- -	ND/0.5Vdp	ND	ND	ND	ND	ND	ND/ND dp
Chromium	50*	- -	- -	- -	- -	NA	NA	15.9	11.9 E	ND/ND*	ND/ND*	ND/ND dp
13S												
Benzene	0.7*	NA	NA	NA	NA	2	0.7/0.6 Jdp	1	ND	ND	ND	ND
Carbon Disulfide	None*	NA	NA	NA	NA	60 D	0.6	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	NA	18/16 dp	6.4	4.4	8	24 J/24 Jdp	8	12	9	6 J	9
Chloroform	7	NA	ND	ND	ND	ND	0.8/0.9 Jdp	ND	0.4 J	0.3 J	ND	ND
Trichloroethene	5	NA	ND	ND	ND	ND	ND	0.4 J	0.9	0.6	ND	0.6
Trichlorofluoromethane	5*	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5
Chromium	50*	NA	NA	NA	NA	336 V	NA	269/261**	316 E/562 E**	282/498**	504/512**	179/172**
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	280	486/302**	260/310**	NA	287

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MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	11/18-11/19/1992	3/17-3/18/1993	5/25-5/26/1993	8/24-8/25/1993	11/8-11/9/1993	2/22-2/23/1994	5/18-5/19/1994	8/24-8/25/1994	11/15-11/16/1994	5/23/1995	10/17/1995
DGC-3S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND V	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	0.8	ND	ND	ND V	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	33.6/ND*	18.5	4.3 B	4.7B	19.4	23.9	4.5 B	9.9 B	11.1	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	4 V	ND	0.3 J	0.2J	ND	ND	ND V/ND V dp	ND	ND	ND	ND
Chromium	50*	8.6 B	48.1/ND*	ND	3.3B	ND	31.2/ND*	ND/ND dp	5.6 B	ND	NA	NA
13S												
Benzene	0.7*	0.4 JV	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	NA	NA
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	NA	NA
Carbon Tetrachloride	5	16 V	15	10	17	18	20/9 dp	9	9	9	NA	NA
Chloroform	7	0.6 V	0.6	0.4 J	0.6	0.7	ND/ND dp	0.4 J	0.3 J	ND	NA	NA
Trichloroethene	5	1 V	2	0.6	ND	2	2/1 dp	0.8	1	0.9	NA	NA
Trichlorofluoromethane	5*	0.9 V	2	0.5	ND	2	2/1 dp	0.9	1	ND	NA	NA
Chromium	50*	585/576**	746/614**	198/609**	787/716**	572/610**	/357** 567/357*	406/434**	133 V/157 V**	44.2 V/95.8 V**	140 J	52.7 J
Hexavalent Chromium	50*	493	663	460	800	560	530/540 dp	340	101	36	150	48

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JUNE 1987 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999	10/26/1999	5/22/2000	10/24/2000	5/15/2001
DGC-3S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
Benzene	0.7*	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	1U	8	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	44.8	46.4	90.7/90.9**	71.4	71.2	98.6 J	72.4	169	249	29.9	136
Hexavalent Chromium	50*	47	47	97	67	51	54.0 J	71.0	178	262	41	12.3

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JUNE 1987 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	10/23/2001	5/29/2002	10/29/2002	4/9/2003	10/9/2003	5/25/2004	11/2004	5/24/2005	10/2005	5/23/2006	10/16/2006
DGC-3S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chromium	50*	43.3	13.4	34.8	52.2	49.4	20.1	NA	NS	NS	NS	NS
Hexavalent Chromium	50*	43.6 J	18	3.59	45	51.5	11	11.2	NS	NS	NS	NS

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DGC-3S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13 J
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.20 J
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
Benzene	0.7*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND
Carbon Disulfide	None*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.8
Trichlorofluoromethane	5*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND
Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA

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JUNE 1987 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	10/23-10/24/2012	5/14-5/15/2013	10/16-10/17/2013	5/14-5/15/2014	10/8-10/13/2014	5/26-5/27/2015	10/21-10/23/2015	5/18-5/19/2016	10/24-10/25/2016	5/16-5/23/2017	10/18-11/7/2017
DGC-3S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	4.1	3.8	3.7	4	3.1	3.9	3.6	3.2	2.8	3.9	2.7
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	2.2	2.7	2.9	2.8	2.3	2.5	2.8	2.7	2.7	2.4	2.7
Trichlorofluoromethane	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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Only detected compounds are listed.
NA = Not analyzed.
ND = Not detected.
NS = Not sampled.
B = The reported value is less than the CRQL/CRDL but greater than the IDL.
dp = Duplicate sample.
E = Estimated concentration: due to interference.
D = Concentration determined from a sample dilution.
J = Estimated concentration.
V = Estimated concentration: due to variance to quality control limits.
- - = Not sampled: well installed in December, 1990.
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** = Filtered Sample.
See RI report for additional data.
Sampling frequency reduced to annually in 2023 upon USEPA approval.

APPENDIX TABLE 1

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	5/16-5/17/2018	10/29-10/31/2018	6/12-6/14/2019	10/09-10/14/2019	5/12-5/14/2020	10/21-10/23/2020	5/10-5/12/2021	10/27-10/29/2021	5/26/2022	9/27-9/28-2022	9/28/2023
DGC-3S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	2.1	3	2.5	ND	1.6	ND	1.8	2	1.8	1.8	1.3
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	2.6	2	2.1	1.3	1.3	1.2	1.4	1.2	1.0	1.2	1.0
Trichlorofluoromethane	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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ND = Not detected.
NS = Not sampled.
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dp = Duplicate sample.
E = Estimated concentration: due to interference.
D = Concentration determined from a sample dilution.
J = Estimated concentration.
V = Estimated concentration: due to variance to quality control limits.
- - = Not sampled: well installed in December, 1990.
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APPENDIX TABLE 2

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action Objective	6/5/1992	11/11/1992	3/14/1994	5/23/1995	10/17/1995	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999	10/26/1999
Carbon Disulfide	None*	ND	ND	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	0.85 J	ND / ND dp
Chloromethane	5	40	ND	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND dp
Chromium	50*	8.4 B/ND**	57.4/ND**	not sampled	ND	ND	ND	ND	ND	ND	ND	3.2 BJ	0.98B	0.85B/0.90b dp
Hexavalent Chromium	50*	NA	NA	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND dp
M-27D														
Carbon Tetrachloride	5	75/62 dp	23	not sampled	33/42 dp	56	31	28	26	22	27	26 / 27 dp	20.3 / 20.1 dp	22.3
Chloroform	7	ND	3	not sampled	4/4 dp	5	3	3	3	2	3	2 / 2 dp	1.8 / 1.8 dp	1.8
Chloromethane	5	4 J/28 dp	ND	not sampled	ND/ND dp	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND dp	ND
Trichloroethene	5											ND/ND dp	4.1/4.1 dp	10.7
Trichlorofluoromethane	5*	no data	no data	not sampled	no data	no data	no data	no data	no data	no data	no data	0.3 J / 0.3 J dp	0.92J / 0.99J dp	1.4
Chromium	50*	2.0 B/ND**	19.8/ND**	not sampled	ND/ND dp	ND	ND	ND	ND	1.2B	ND	4.6 BJ /	1.4 B /	0.81B
Hexavalent Chromium	50*	NA	NA	not sampled	ND/ND dp	ND	ND	ND	ND	ND	ND	ND / ND dp	ND / ND dp	ND
M-33S														
VOCs	-	not sampled	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-33I														
VOCs	-	not sampled	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
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ND = Not detected.
NS = Not Sampled
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APPENDIX TABLE 2

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action Objective	5/22/2000	10/24/2000	5/15/2001	10/23/2001	5/29/2002	10/29/2002	4/15/2003	10/9/2003	5/25/2004	11/2004	5/24/2005	10/2005	5/23/2006
Carbon Disulfide	None*	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND J / ND J dp	ND	ND / 0.11 J dp	ND	NA	NA	NA	NA
Chloromethane	5	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND J / ND J dp	ND	ND / ND dp	ND	NA	NA	NA	NA
Chromium	50*	1.1B	1.2B	ND / ND dp	ND / ND dp	ND / ND dp	1.2 B	8.5 B	1.0 B / 1.8 B dp	83.1	2.6 B / 2.2 B dp	NA	NA	NA
Hexavalent Chromium	50*	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND / ND dp	ND UJ	ND U / ND dp	ND	ND	NA	NA	NA
M-27D														
Carbon Tetrachloride	5	26.7D/28.9D dp	19.2/19.8 dp	13.8	16.2	14.5	24.2 DJ	5.1 / 4.5 dp	16.6	3 / 2.7 dp	22.1	21	13	22
Chloroform	7	ND / ND dp	1.7J /1.3 dp	1.1	1.1	0.94J	2.4	ND / ND dp	1.0	53 JB / 0.55 JB	ND	ND	ND	2
Chloromethane	5	ND / ND dp	ND / ND dp	ND	ND	ND	ND	ND ND dp	ND	ND ND dp	ND	ND	ND	ND
Trichloroethene	5	12.8 / 12.1 dp	26.4 /26.5D dp	19.4	27 D	22.7	14	2.4 / 2.2 dp	21.8 D	3.2 / 2.9 dp	22.7	18	24	16
Trichlorofluoromethane	5*	1.9 / 1.8 dp	2.9 / 2.9 dp	2.0	2.2	1.5	0.96 J	0.21J / 0.18J dp	2.3	0.27 J / 0.29 J dp	2.3	1.3	1.0	1 J
Chromium	50*	2B/1.8B dp	1.2B/1.2B dp	ND	1.5 B	2 B	1.5 B	5.9B / 6.1B dp	1.2 B	22.6 / 21.3 dp	2.6 B	1.7 B	1.6 B	2.7
Hexavalent Chromium	50*	ND/ND dp	ND/ND dp	ND	ND	ND	ND	ND / ND dp	ND	ND / ND dp	ND	ND	ND	ND
M-33S														
VOCs	-	ND	ND	8.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-33I														
VOCs	-	ND	ND	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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APPENDIX TABLE 2

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action Objective	10/16/2006	5/14/2007	10/16/2007	5/14/2008	10/13/2008	5/13/2009	11/11/2009	5/19/2010	10/26/2010	5/18/2011	10/25/2011	5/22/2012	10/23/2012
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chloromethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
M-27D														
Carbon Tetrachloride	5	12	15	10	11	9	7.6	5.8	4.2	6.9	8.3	6	5.2	4.2
Chloroform	7	0.76J	2	0.7J	ND	0.6 J	0.30 J	0.31 J	ND	0.61 J	1.1	0.5J	0.53 J	0.33 J
Chloromethane	5	ND	ND	ND	ND	ND	ND	0.13 J	ND	ND	ND	ND	ND	ND
Trichloroethene	5	21	15	14	13	11	11	10	9.3	8.2	6.7	7	7.1	5.8
Trichlorofluoromethane	5*	1.0	0.9J	0.8J	0.6J	0.3 J	0.15 J	ND	ND	ND	0.13J	ND	ND	ND
Chromium	50*	1.7 BJ	ND	ND	ND	0.810	0.88	ND	1.1 J	10 U	ND	1.0 J	11.1 J	6.4
Hexavalent Chromium	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010 J	10.0 U	ND
M-33S														
VOCs	-	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
M-33I														
VOCs	-	ND	ND	ND	NA	ND	--	--	--	--	--	--	--	--

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APPENDIX TABLE 2

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action Objective	5/14/2013	10/16/2013	5/14/2014	10/8/2014	5/26/2015	10/21-10/23/2015	5/18-5/19/2016	10/24-10/25/2016	5/16-5/23/2017	10/18-11/7/2017	5/16-5/17/2018	10/29-10/31/2018	6/12-6/14/2019
Carbon Disulfide	None*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloromethane	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
M-27D														
Carbon Tetrachloride	5	5.9	1.6	5.1	4.2	5.4	6.5	6.3	5.1	8.6	8.1	6.2/6.4	9.7/10.5	ND
Chloroform	7	0.60 J	ND	0.49 J	0.5 J	0.66	ND	0.83	0.88 J	ND	1.1	1.1/1.1	1.2/1.2	1.8
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	0.34 J	ND	3.6 J	ND/ND	ND/ND	ND
Trichloroethene	5	5	6	5	4.4	6	5.2	5.2	5.1	6	6.7	5.7/5.8	5.0/5.1	4.8
Trichlorofluoromethane	5*	0.10 J	ND	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND/ND	NA	ND
Chromium	50*	ND	ND	1.3 J	ND	ND	ND	ND	21.7/25.4	12/12.4	13.9/ND	147/187	78.6/79.6	16.1
Hexavalent Chromium	50*	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND/ND	ND/ND	ND/ND	ND
M-33S														
VOCs	-	--	--	--	--	--	--	--	--	--	--	--	--	--
M-33I														
VOCs	-	--	--	--	--	--	--	--	--	--	--	--	--	--

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APPENDIX TABLE 2

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action Objective	10/09-10/14/2019	5/12-5/14/2020	10/21-10/23/2020	5/10-5/12/2021	10/27-10/29/2021	5/25/2022	9/27/2022	9/26/2023
Carbon Disulfide	None*	NS	NS	NS	NS	NS	NS	NS	NS
Chloromethane	5	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS
M-27D									
Carbon Tetrachloride	5	5.5	6.6	7.0	5	7.8/7.4	11	ND	8.4
Chloroform	7	1.5	1.5	1.5	1.1	3.3/3.0	4.2	2.9	2.2
Chloromethane	5	ND	ND	ND	ND	ND/ND	ND	ND	ND
Trichloroethene	5	5.8	5.0	4.6	2.8	3.8/3.2	3.1	3.1	3.3
Trichlorofluoromethane	5*	ND	ND	ND	ND	ND/ND	ND	ND	ND
Chromium	50*	ND	ND	228	10.8	35.8/33.6	66	5.6	63
Hexavalent Chromium	50*	ND	ND	ND	ND	ND/ND	ND	17	9.2 J
M-33S									
VOCs	-	--	--	--	--	--	--	--	--
M-33I									
VOCs	-	--	--	--	--	--	--	--	--

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NS = Not Sampled
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APPENDIX TABLE 3

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D
JUNE 1992 -SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	06/01/92	11/18/92	11/2004	05/24/05	10/24/05	05/23/06	10/16/06	05/14/07	10/16/07	05/14/08
4D											
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11D											
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	6	4.6	13	14	15	12	12	13	11
Chloroform	7	ND	3	ND	4.0	3.0	4.0	3.0	3	2	ND
Trichloroethene	5	9J	7	ND	0.8 J	0.9 J	1 J	2.0	1	1	1
M-24D											
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	10	0.7	0.59 J	10	10	11	11	10	9	9
Chloroform	7	ND	ND	ND	0.6 J	0.5 J	0.5 J	0.44 J	0.4 J	0.4 J	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-24DR											
Acetone	50	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	5	--	--	--	--	--	--	--	--	--	--
Chloroform	7	--	--	--	--	--	--	--	--	--	--
Trichloroethene	5	--	--	--	--	--	--	--	--	--	--
M-25D											
Acetone	50	ND	ND R	ND	ND	ND	49 D*	25 JD	ND	ND	ND
Carbon Tetrachloride	5	48	27R	86.8 D	81 D	91	76 D*	71 D	60	65	56
Chloroform	7	ND	3R	8.7	8.0	9.0	8 D*	7 D	7	6	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	3J	8R	16.1	35 D	37	28 D*	22 D	31	34	52
M-29D											
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon-113											
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND R	ND	ND	ND	16 D*	ND	ND	ND	ND
Carbon Tetrachloride	5	79	84	10.8	38 D	37	39 D*	33 D	32	34	33
Chloroform	7	ND	14	ND	4.0	5.0	5 D*	4 D	3	3	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	19	24	6.0	14	13	14 D*	12 D	11	11	11
13D											
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	98.4	38.9 J	4.5 B	78.3	60.8 J	11	17.1	25.3	5.2B	13.2
Hexavalent Chromium	50*	NA	NA	10 U	10 U	10 U	10 U	14.2	10 U	10 U	10 U

Notes:
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See Remedial Investigation report for additional data.
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ND = Not detected.
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APPENDIX TABLE 3

SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D
JUNE 1992 -SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	10/13/08	05/13/09	11/11/09	05/19/10	10/26/10	05/18/11	10/25/11	05/22/12	10/23/12	05/14/13
4D											
Acetone	50	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS
Chloroform	7	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS
Trichloroethene	5	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS
11D											
Acetone	50	ND	2.8 J	NS	ND	ND	ND	ND	5.0 UJ	ND	ND
Carbon Tetrachloride	5	10	11	NS	11	7.7	8.9	7.8	8.3	6.7	7.1
Chloroform	7	2	1.4	NS	1.3	0.82 J	0.96 J	0.76 J	0.89 J	0.56 J	0.61 J
Trichloroethene	5	2	1.6	NS	1.5	1.9	1.3	1.4	1.3	1.9	1.5
M-24D											
Acetone	50	ND	---	---	---	---	---	---	---	---	---
Carbon Tetrachloride	5	10	---	---	---	---	---	---	---	---	---
Chloroform	7	0.3 J	---	---	---	---	---	---	---	---	---
Trichloroethene	5	ND	---	---	---	---	---	---	---	---	---
M-24DR											
Acetone	50	--	ND	ND	ND	ND	2.1	ND	5.0 UJ	4.1 J	2.1 J
Carbon Tetrachloride	5	--	16	13	5.5	4.9	2.6	2.4	1.3	1.0	0.50 J
Chloroform	7	--	0.68 J	0.43 J	0.25 J	0.25 J	0.11J	0.12J	ND	ND	ND
Trichloroethene	5	--	49	39	18	19	9.5	8.8	4.8	4.2	1.8
M-25D											
Acetone	50	ND	7.3 J	ND	ND	ND	ND	ND	25 JD	ND	ND
Carbon Tetrachloride	5	52	52	40	35	34	32	32	32	29	27
Chloroform	7	4	3.8 J	3.0 J	3.0 J	3.2 J	3.2 J	2.8 J	2.4 J	1.7 J	1.3 J
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	1.1 J	1.0 J	0.85 J	ND	0.35 J
Trichloroethene	5	79 D	93	79	76	73	79	66	69	67	62
M-29D											
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	4.4	4.1	4.2	4.6	4
Freon-113											
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	0.23J	0.23 J	0.28 J	0.31 J	0.30 J
Acetone	50	ND	4.4 J	ND	ND	ND	ND	5.0 J	5.0 UJ	ND	ND
Carbon Tetrachloride	5	32	30	27	28	27	27E	24	23	24	19
Chloroform	7	2	2.5	2.7	2.8	2.4	2.1	1.4	1.2	0.96 J	0.70 J
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.19 J	0.14 J	0.12 J	ND	ND
Trichloroethene	5	10	11	16	21	22	25E	23	24	25 E	23
13D											
Acetone	ND	ND	ND	ND	ND	ND	1.1J	5.0 J	ND	1.4 J	1.1 J
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	0.99 J	ND	0.31 J	0.68 J	0.66 J
Chloroform	ND	ND	ND	ND	ND	ND	0.16 J	ND	ND	0.13 J	0.11 J
Chromium	50*	7.3	7.1	4.0 J	3.4 J	16.1	ND	3.6 J	6.1 J	6.6 J	ND
Hexavalent Chromium	50*	10 U	10 U	10 U	10 U	10 UJ	ND	0.010 J	ND	ND	ND

Notes:
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MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D
JUNE 1992 -SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	10/16/13	05/14/14	10/08/14	05/26/15	10/21-10/23-2015	5/18-5/19-2016	10/24-10/25-2016	5/16-5/23-2017	10/18-11/7-2017	5/16-5/17-2018
4D											
Acetone	50	NS	NS	ND	ND	2.2 J	ND	4.1 J	ND	46.7	ND
Carbon Tetrachloride	5	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
11D											
Acetone	50	ND	1.1 J	ND	ND	2.2 J	ND	ND	ND	24.7	ND
Carbon Tetrachloride	5	6	6.2	6.4	6.6	5.7	5.9 J	ND	8.3	5.4	4.9
Chloroform	7	0.55 J	0.49 J	0.67 J	2.0	0.67 J	0.57 J	ND	ND	ND	ND
Trichloroethene	5	1.4	1.6	1.2	1.2	1.1	1.6 J	1.7	1.5	1.3	1.6
M-24D											
Acetone	50	---	---	---	---	---	---	---	---	---	---
Carbon Tetrachloride	5	---	---	---	---	---	---	---	---	---	---
Chloroform	7	---	---	---	---	---	---	---	---	---	---
Trichloroethene	5	---	---	---	---	---	---	---	---	---	---
M-24DR											
Acetone	50	2.4 J	1.5 J	2.4 J	ND	2.4 J	4 J	5.2	ND	57.6	ND
Carbon Tetrachloride	5	0.67 J	0.51 J	0.6 J	3.0	3.6	1.7 J	1.3	4.0	1.9	1.9
Chloroform	7	ND	ND	ND	ND	0.21 J	ND	ND	ND	ND	ND
Trichloroethene	5	2.8	1.7	1.9	8	11	4.7 J	3.5	11.3	5.1	6.2
M-25D											
Acetone	50	ND	3.7 J	3.9 J	ND	ND	ND	5.8 J	ND	8.5 J	ND
Carbon Tetrachloride	5	25	23	22	24	23	25	25	39.8	26.6	32.1
Chloroform	7	1.2 J	0.93 J	1.0 J	1.5	1.6 J	2.0	1.8 J	2.9	1.9	2.9
cis-1,2-Dichloroethene	ND	ND	ND	ND	0.2 J	ND	0.17 J	ND	ND	ND	ND
Trichloroethene	5	57	57	55	51	47	51	41	51.7	42.3	60.2
M-29D											
1,1,1-Trichloroethane	ND	ND	3.8	3.3	3.1	2.6	2.2 J	2.2	ND	ND	1.8
Freon-113											
1,1-Dichloroethene	ND	ND	0.21 J	0.13 J	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	4.2 J	ND	7.6	ND
Carbon Tetrachloride	5	18	20	17	16	16	17 J	14	17.5	13.4	12.9
Chloroform	7	0.63 J	0.55 J	0.51 J	0.45 J	0.41 J	ND	0.31 J	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	23	23 D	23	20	21	21 J	21.0	26.7	21.7	31.1
13D											
Acetone	ND	ND	1.4 J	ND	ND	ND	ND	6.6	ND	29.9	ND
Carbon Tetrachloride	ND	0.77 J	0.26 J	0.63 J	0.52	ND	0.46 J	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	8.0 J	63.5	ND	12	ND	ND	ND	19.8	ND	14.9
Hexavalent Chromium	50*	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND

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MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D
JUNE 1992 -SEPTEMBER 2023
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	10/29-10/31-2018	6/12-6/14-2019	10/09-10/14-2019	5/12-5/14-2020	10/21-10/23-2020	5/10-5/12-2021	10/27-10/29-2021	5/25/2022	9/27-9/28-2022	9/26-9/28-2023
4D											
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11D											
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	7.5	6.2	4.9	ND	4.4	ND	4.8	4.9	7.6	4.7
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	0.50 J	0.62 J	ND
Trichloroethene	5	1.4	1.7	1.5	1.4	1.4	1.4	1.3	1.5	0.71 J	1.4
M-24D											
Acetone	50	---	---	---	---	---	---	---	---	---	---
Carbon Tetrachloride	5	---	---	---	---	---	---	---	---	---	---
Chloroform	7	---	---	---	---	---	---	---	---	---	---
Trichloroethene	5	---	---	---	---	---	---	---	---	---	---
M-24DR											
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	5.0	1.8	3.5	1.5	ND	3.6	2.8	3.4	5.2	4.0
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	0.46 J	0.68 J	ND
Trichloroethene	5	12.7	4.1	10.3	4.8	3.2	8	6.6	6.4	10	6.3
M-25D											
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	40.4	29.4	27.6	21.2	22.9	24	20.1	22	22	19
Chloroform	7	2.5	2.5	2.4	1.2	1.2	1.3	1.3	0.98 J	1.1	1.1
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	50.8	48.0	45.4	44.2	45.6	49.6	45.8	49	50	51
M-29D											
1,1,1-Trichloroethane	ND	1.8	1.6	1.4	1.2	ND	ND	ND	1.0	0.91 J	ND
Freon-113									0.97 J	1.8 J	1.3
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	15.6	13.2	13.0	10.4	10.2	11.4	8.6	12	11	9.0
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	27.8	32.3	28.8	28.9	29.0	32.2	33.0	31	32	27
13D											
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	0.35 J	ND	0.61 J
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	ND	ND	13.7	ND	15.0	ND	13.0	1.3	ND	3.3 J
Hexavalent Chromium	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Appendix D

Property Owner Interviews

RAMBOLL

Annual Interview Log
Remedial Work Element IV - Institutional Controls
Malta Rocket Fuel Area Site
Malta and Stillwater, New York

Property Owner Interviewed: NYS Energy Research and Development Authority

Agency/Property Owner Representative: Kevin Hunt
e-mail: kevin.hunt@nyserda.ny.gov
Phone: (518) 282-1090 (x3259)

Interview Questions:	Representative Response:
Do you have any knowledge of current or potential future use of groundwater within the area of the Environmental Restriction Zone? Do not include activities associated with Remedial Work Element II, Malta Test Station Drinking Water System.	No
Are you aware of any current or proposed changes in land use within the area of the Environmental Restriction Zone?	No
Are you aware of the notice requirements associated with the Environmental Restriction Easement and Declaration of Restrictive Covenants?	Yes
Have you provided any interested parties with a notice of Environmental Restriction Easement and Declaration of Restrictive Covenants in any instrument (document) conveying an interest in any part of the affected property? If so, please provide a date of execution and recording reference number, as provided by the Office of the Clerk of Saratoga County, New York.	Instrument #: 20230312 10 Recording Date: 12.12.2023
Are you aware of any other conditions or actions within the Environmental Restriction Zone that would impact any condition of the Environmental Restriction Easement and Declaration of Restrictive Covenants?	No

Interview Completed by: Alayna Fuess

RAMBOLL

Annual Interview Log
Remedial Work Element IV - Institutional Controls
Malta Rocket Fuel Area Site
Malta and Stillwater, New York

Property Owner Interviewed: Global Foundries

Agency/Property Owner Representative: Stephanie Kaczynski
e-mail: stephanie.kaczynski@globalfoundries.com
Phone: (518) ~~275-2507~~ 305-1511

Interview Questions:	Representative Response:
Do you have any knowledge of current or potential future use of groundwater within the area of the Environmental Restriction Zone? Do not include activities associated with Remedial Work Element II, Malta Test Station Drinking Water System.	No
Are you aware of any current or proposed changes in land use within the area of the Environmental Restriction Zone?	No
Are you aware of the notice requirements associated with the Environmental Restriction Easement and Declaration of Restrictive Covenants?	No
Have you provided any interested parties with a notice of Environmental Restriction Easement and Declaration of Restrictive Covenants in any instrument (document) conveying an interest in any part of the affected property? If so, please provide a date of execution and recording reference number, as provided by the Office of the Clerk of Saratoga County, New York.	Notification of and written approval by EPA prior to disturbance or contact with groundwater.
Are you aware of any other conditions or actions within the Environmental Restriction Zone that would impact any condition of the Environmental Restriction Easement and Declaration of Restrictive Covenants?	No

Interview Completed by: Alayna Fuess

RAMBOLL

Annual Interview Log
Remedial Work Element IV - Institutional Controls
Malta Rocket Fuel Area Site
Malta and Stillwater, New York

Property Owner Interviewed: Town of Malta

Agency/Property Owner Representative: Jamie O'Neill (Joneill)
e-mail: joniell@malta-town.org
Phone: (518) 889-2685

Interview Questions:	Representative Response:
Do you have any knowledge of current or potential future use of groundwater within the area of the Environmental Restriction Zone? Do not include activities associated with Remedial Work Element II, Malta Test Station Drinking Water System.	no
Are you aware of any current or proposed changes in land use within the area of the Environmental Restriction Zone?	no
Are you aware of the notice requirements associated with the Environmental Restriction Easement and Declaration of Restrictive Covenants?	yes
Have you provided any interested parties with a notice of Environmental Restriction Easement and Declaration of Restrictive Covenants in any instrument (document) conveying an interest in any part of the affected property? If so, please provide a date of execution and recording reference number, as provided by the Office of the Clerk of Saratoga County, New York.	no
Are you aware of any other conditions or actions within the Environmental Restriction Zone that would impact any condition of the Environmental Restriction Easement and Declaration of Restrictive Covenants?	no

Interview Completed by: Alayna Fuess